AD-A202 476

AFGL-TR-88-0080(II)

Spacecraft/Environment Interactions CAE Tool User's Manual - Volume II (Appendix C)

J. R. Lilley
S. G. Waisman
D. Peterka
D. Daou
M. J. Mandell

S-CUBED
P. O. Box 1620
La Jolla, CA 92038-1620

November 1987

Final Report
August 1986-January 1988

DTIC
ELECTE
DEC 1 9 1988
S D
H

APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION UNLIMITED

AIR FORCE GEOPHYSICS LABORATORY
AIR FORCE SYSTEMS COMMAND
UNITED STATED AIR FORCE
HANSCOM AIR FORCE BASE
MASSACHUSETTS 01731-5000

88 12 19 005

"This technical report has been reviewed and is approved for publication"

(Signature)
MICHAEL J. GIGER, 1Lt, USAF
Contract Manager

(Signature)
JOHN A. GAUDET, LT COL, USAF
Branch Chief

FOR THE COMMANDER

(Signature)
RITA C. SAGALYN
Division Director

This report has been reviewed by the ESD Public Affairs Office (PA) and is releasable to the National Technical Information Service (NTIS).

Qualified requestors may obtain additional copies from the Defense Technical Information Center. All others should apply to the National Technical Information Service.

If your address has changed, or if you no longer with to be removed from the mailing list, of if the addressee is no longer employed by your organization, please notify AFGL/DAAC, Hanscom AFB, MA 01731. This will assist us in mailing a current mailing list.

Do not return copies of this report unless contractual obligations or notices on a specific document requires that it be returned.

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE

AD-A202 476

REPORT DOCUMENTATION PAGE

1a REPORT SECURITY CLASSIFICATION Unclassified	1b RESTRICTIVE MARKINGS
2a SECURITY CLASSIFICATION AUTHORITY	3 DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release: distribution unlimited
2b DECLASSIFICATION / DOWNGRADING SCHEDULE	
4 PERFORMING ORGANIZATION REPORT NUMBER(S) SSS-R-87-8804	5 MONITORING ORGANIZATION REPORT NUMBER(S) AFGL-TR-88-0080 (II)
6a NAME OF PERFORMING ORGANIZATION S-CUBED, A Division of Maxwell Laboratories, INc.	6b OFFICE SYMBOL (If applicable)
	7a NAME OF MONITORING ORGANIZATION Air Force Geophysics Laboratory
6c ADDRESS (City, State, and ZIP Code) P. O. Box 1620 La Jolla, CA 92038-1620	7b ADDRESS (City, State, and ZIP Code) Hanscom Air Force Base, MA 01731-5000
8a NAME OF FUNDING / SPONSORING ORGANIZATION	8b OFFICE SYMBOL (If applicable)
	9 PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER F19628-86-C-0193
8c ADDRESS (City, State, and ZIP Code)	10 SOURCE OF FUNDING NUMBERS

PROGRAM ELEMENT NO	PROJECT NO	TASK NO	WORK UNIT ACCESSION NO
63410F	2821	01	AC

11 TITLE (Include Security Classification)
Spacecraft/Environment Interactions CAE Tool. User's Manual - Volume II (Appendix C)

12 PERSONAL AUTHOR(S)
J. R. Lilley, S. G. Waisman, D. Peterka, D. Daou, M. J. Mandell

13a TYPE OF REPORT	13b TIME COVERED	14 DATE OF REPORT (Year, Month, Day)	15 PAGE COUNT
Final Report	FROM Aug 86 TO Jan 88	1987 November	206

16 SUPPLEMENTARY NOTATION

17 COSATI CODES			18 SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
FIELD	GROUP	SUB-GROUP	~~Spacecraft charging analysis codes, NASCAP, POLAR, CAE tools~~ Computer aided design, Computer aided engineering

19 ABSTRACT (Continue on reverse if necessary and identify by block number)

This CAE tool package will aid spacecraft developers by adding a user-friendly interface to two spacecraft charging analysis codes, namely NASCAP/GEO (NASA Charging Analyzer Program, Geosynchronous Orbits) and POLAR 1.1 (Potentials of Large Orbiting Spacecraft in the Auroral Region). The software package contains four major, independent programs. They are a model definition program with a specialized interface to ANVIL 5000, separate interactive control programs for analyzing models in different environments using either NASCAP/GEO or POLAR 1.1, and a graphics display program to present the calculation results using MOVIE.BYU (DYNA-MOVIE).

20 DISTRIBUTION / AVAILABILITY OF ABSTRACT	21 ABSTRACT SECURITY CLASSIFICATION
☐ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT ☐ DTIC USERS	Unclassified

22a NAME OF RESPONSIBLE INDIVIDUAL	22b TELEPHONE (Include Area Code)	22c OFFICE SYMBOL
Michael J. Giger, Lt., USAF	(617) 377-3991	AFGL/PHE

DD FORM 1473, 84 MAR — 83 APR edition may be used until exhausted. All other editions are obsolete.

SECURITY CLASSIFICATION OF THIS PAGE
UNCLASSIFIED

APPENDIX C - SAMPLE RUNS

This appendix contains the input and output of a sample run for each of the CAE Tools: GEOCAT and POLCAT. The original object definition files have been included to provide a reference point. Direct comparison between the new and old object definitions may not be exact due to decisions made during creation of the objects with ANVIL 5000.

The first test case is FLTSATCOM for use with NASCAP/GEO in Section C.1, the second test case is a simple rendition of the Space Shuttle which has been dubbed the 'micro' shuttle for use with POLAR 1.1 and is in Section C.2.

Accession For	
NTIS GRA&I	☑
DTIC TAB	☐
Unannounced	☐
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

C.1 NASCAP/GEO FLTSATCOM TEST RUN

Included in this section are the following files in order:

- Old Object Definition File
- Plots of FleetSatCom made using ANVIL 5000
- IGES file created by ANVIL 5000 (FLTSATCOM.TAP)
- Object Building Block File created with GEOCAT (FLTSATCOM.OBB)
- Object Definition File created by GEOCAT (FLTSATCOM.ODF)
- Material plots made with BYUMAT
- NASCAP Rundeck (FLTSATCOMNAS.RUN)
- NASCAP Test Environment (FOR022.DAT)
- NASCAP Run Output (FLTSATCOM Results)
- Plots of Results from GEOCAT
  - potential contours - CONBYU
  - surface potentials - BYUPOT

```
COMMENT PRELIMINARY FLEETSATCOM MODEL (VERSION 1)
COMMENT FLIGHT 7 SPACECRAFT WITH EHF MODULE
COMMENT MESH SIZE IS 1.5FT (0.457 M)
COMMENT S/C ILLUMINATED AT DAWN
COMMENT DEFINE MATERIALS
COMMENT
KAP3TN
3.50E+00  1.27E-04  1.00E-16  5.00E+00  2.10E+00  1.50E-01  7.15E+01  6.00E-01
3.12E+02  1.77E+00  4.55E-01  1.40E+02  2.00E-05  7.90E+19  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
LFALUM
3.50E+00  2.54E-05  1.23E-08  5.00E+00  2.10E+00  1.50E-01  7.15E+01  6.00E-01
3.12E+02  1.77E+00  4.55E-01  1.40E+02  2.00E-05  3.20E+12  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
S13GLO
3.50E+00  1.02E-04  6.50E-10  5.00E+00  2.10E+00  1.50E-01  -1.00E+00 0.00E+00
1.05E+00  9.80E+00  4.55E-01  1.40E+02  2.00E-05  1.50E+13  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
FSLICA
4.00E+00  1.52E-04  1.00E-14  1.00E+01  2.40E+00  4.00E-01  1.16E+02  8.10E-01
1.83E+02  1.86E+00  4.55E-01  1.40E+02  2.00E-05  6.58E+17  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
BLKVEL
3.50E+00  5.08E-05  1.40E-08  5.00E+00  2.10E+00  1.50E-01  7.15E+01  6.00E-01
3.12E+02  1.77E+00  4.55E-01  1.40E+02  2.00E-05  1.40E+12  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
SSMESH
1.00E+00  1.00E-03  -1.00E+00 4.70E+01  1.00E+00  8.00E-01  8.45E+01  8.20E-01
7.94E+01  1.74E+00  4.90E-01  1.23E+02  2.90E-05  -1.00E+00 1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
KAP1TN
3.50E+00  5.08E-05  1.00E-16  5.00E+00  2.10E+00  1.50E-01  7.15E+01  6.00E-01
3.12E+02  1.77E+00  4.55E-01  1.40E+02  2.00E-05  2.00E+20  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
KAP2TN
3.50E+00  1.27E-05  1.00E-16  5.00E+00  2.10E+00  1.50E-01  7.15E+01  6.00E-01
3.12E+02  1.77E+00  4.55E-01  1.40E+02  2.00E-05  7.90E+20  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
EHFPRT
1.00E+00  1.00E-03  -1.00E+00 2.44E+01  1.40E+00  8.00E-01  -1.00E+00 0.00E+00
7.18E+00  5.55E+01  4.90E-01  1.23E+02  3.20E-05  -1.00E+00 1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
ALUM
1.00E+00  1.00E-03  -1.00E+00 1.30E+01  9.70E-01  3.00E-01  1.54E+02  8.00E-01
2.20E+02  1.76E+00  2.44E-01  2.30E+02  4.00E-05  -1.00E+00 1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
CPHENL
3.50E+00  5.08E-03  1.00E-10  7.00E+00  3.00E+00  3.00E-01  4.54E+01  4.00E-01
2.18E+02  1.77E+00  4.55E-01  1.40E+02  2.00E-05  1.00E+10  1.00E+04  2.00E+03
1.00E-13  1.00E+00  1.00E+03  2.00E+01
COMMENT
COMMENT DEFINE OBJECT
COMMENT FSC EQUIPMENT MODULE
OCTAGON
AXIS -2 -6 0  -2 -2 0
WIDTH 6
```

```
SIDE 2
SURFACE + KAP2TN
SURFACE - KAP3TN
SURFACE C KAP1TN
ENDOBJ
COMMENT
COMMENT EQUIPMENT MODULE SIDES/ SSM PATCHES
PATCHR
CORNER -5 -6 0
DELTAS 1 1 1
SURFACE -X FSLICA
ENDOBJ
PATCHR
CORNER 0 -6 0
DELTAS 1 1 1
SURFACE +X FSLICA
ENDOBJ
PATCHR
CORNER 0 -4 -1
DELTAS 1 1 1
SURFACE +X FSLICA
ENDOBJ
PATCHR
CORNER -2 -3 -3
DELTAS 1 1 1
SURFACE -Z FSLICA
ENDOBJ
PATCHR
CORNER -3 -3 -3
DELTAS 1 1 1
SURFACE -Z FSLICA
ENDOBJ
PATCHR
CORNER -3 -4 -3
DELTAS 1 1 1
SURFACE -Z FSLICA
ENDOBJ
PATCHR
CORNER -2 -5 -3
DELTAS 1 1 1
SURFACE -Z FSLICA
ENDOBJ
PATCHR
CORNER -3 -6 -3
DELTAS 1 1 1
SURFACE -Z FSLICA
ENDOBJ
PATCHR
CORNER -2 -3 2
DELTAS 1 1 1
SURFACE +Z FSLICA
ENDOBJ
PATCHR
CORNER -3 -3 2
DELTAS 1 1 1
SURFACE +Z FSLICA
```

```
ENDOBJ
PATCHR
CORNER -2 -4 2
DELTAS 1 1 1
SURFACE +Z FSLICA
ENDOBJ
PATCHR
CORNER -3 -5 2
DELTAS 1 1 1
SURFACE +Z FSLICA
ENDOBJ
PATCHR
CORNER -2 -6 2
DELTAS 1 1 1
SURFACE +Z FSLICA
ENDOBJ
PATCHW
CORNER 0 -3 1
FACE FSLICA 1 0 1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER 0 -5 1
FACE FSLICA 1 0 1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER 0 -3 -1
FACE FSLICA 1 0 -1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER 0 -5 -1
FACE FSLICA 1 0 -1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER -4 -3 1
FACE FSLICA -1 0 1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER -4 -5 1
FACE FSLICA -1 0 1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER -3 -4 2
FACE FSLICA -1 0 1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER -4 -3 -1
FACE FSLICA -1 0 -1
LENGTH 1 1 1
ENDOBJ
```

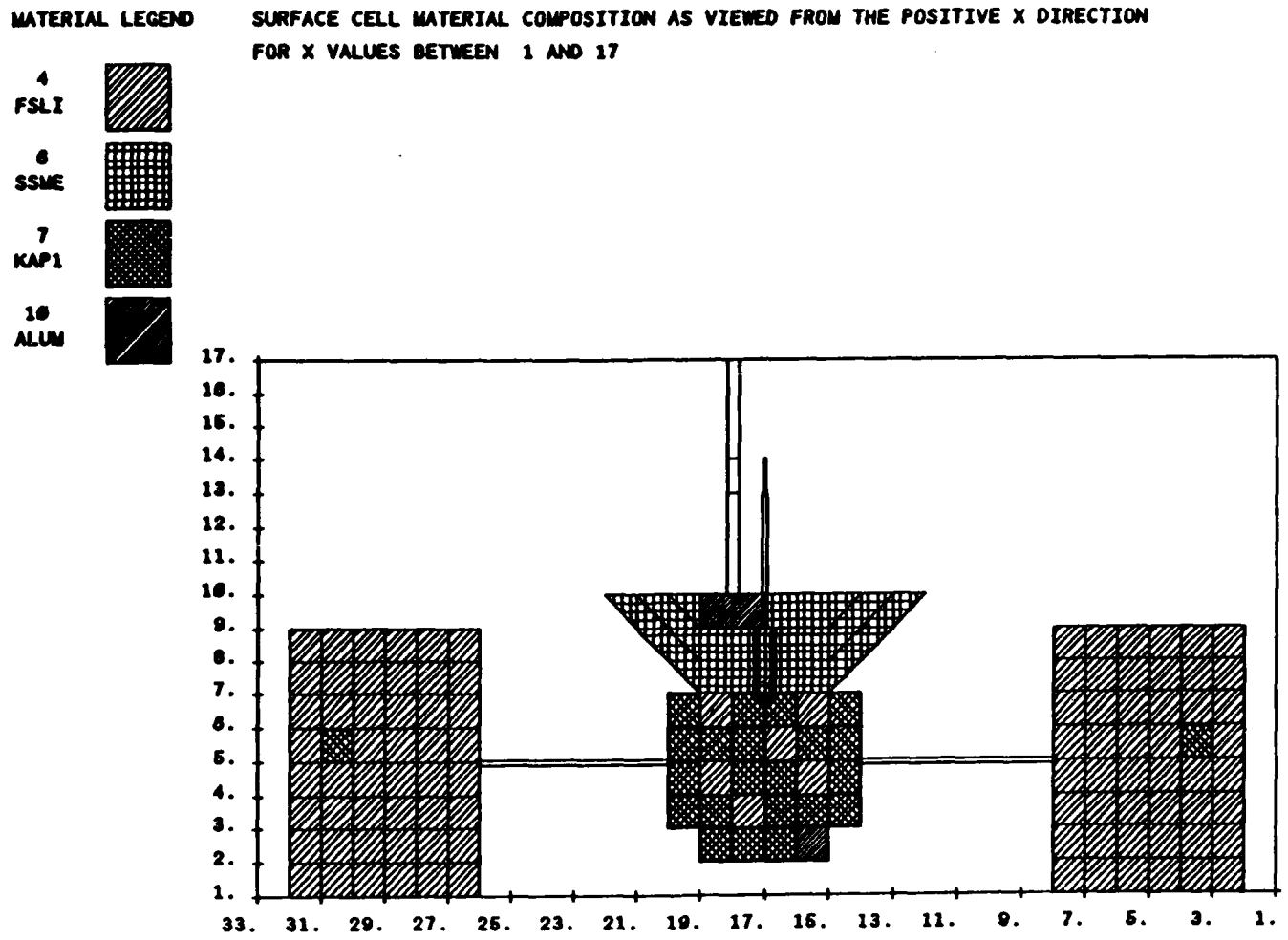
```
PATCHW
CORNER -4 -5 -1
FACE FSLICA -1 0 -1
LENGTH 1 1 1
ENDOBJ
PATCHW
CORNER -3 -6 -2
FACE FSLICA -1 0 -1
LENGTH 1 1 1
ENDOBJ
COMMENT
COMMENT EQUIPMENT MODULE TOP/UHF TRANSMIT ANTENNA
OCTAGON
AXIS -2 -3 0  -2 -2 0
WIDTH 4
SIDE 2
SURFACE + S13GL0
ENDOBJ
COMMENT EHF ANTENNA PATCH
WEDGE
CORNER -1 -3 1
FACE KAP2TN -1 0 -1
LENGTH 1 1 1
SURFACE +Y EHFPRT
ENDOBJ
COMMENT
COMMENT ANTENNA MESH
ASLANT
CORNER 0 1 -2
FACE SSMESH 1 -1 0
LENGTH 3 3 4
ENDOBJ
ATET
CORNER 0 1 2
FACE SSMESH 1 -1 1
LENGTH 3
ENDOBJ
ASLANT
CORNER -4 1 2
FACE SSMESH 0 -1 1
LENGTH 4 3 3
ENDOBJ
ATET
CORNER -4 1 2
FACE SSMESH -1 -1 1
LENGTH 3
ENDOBJ
ASLANT
CORNER -4 1 -2
FACE SSMESH -1 -1 0
LENGTH 3 3 4
ENDOBJ
ATET
CORNER -4 1 -2
FACE SSMESH -1 -1 -1
LENGTH 3
```

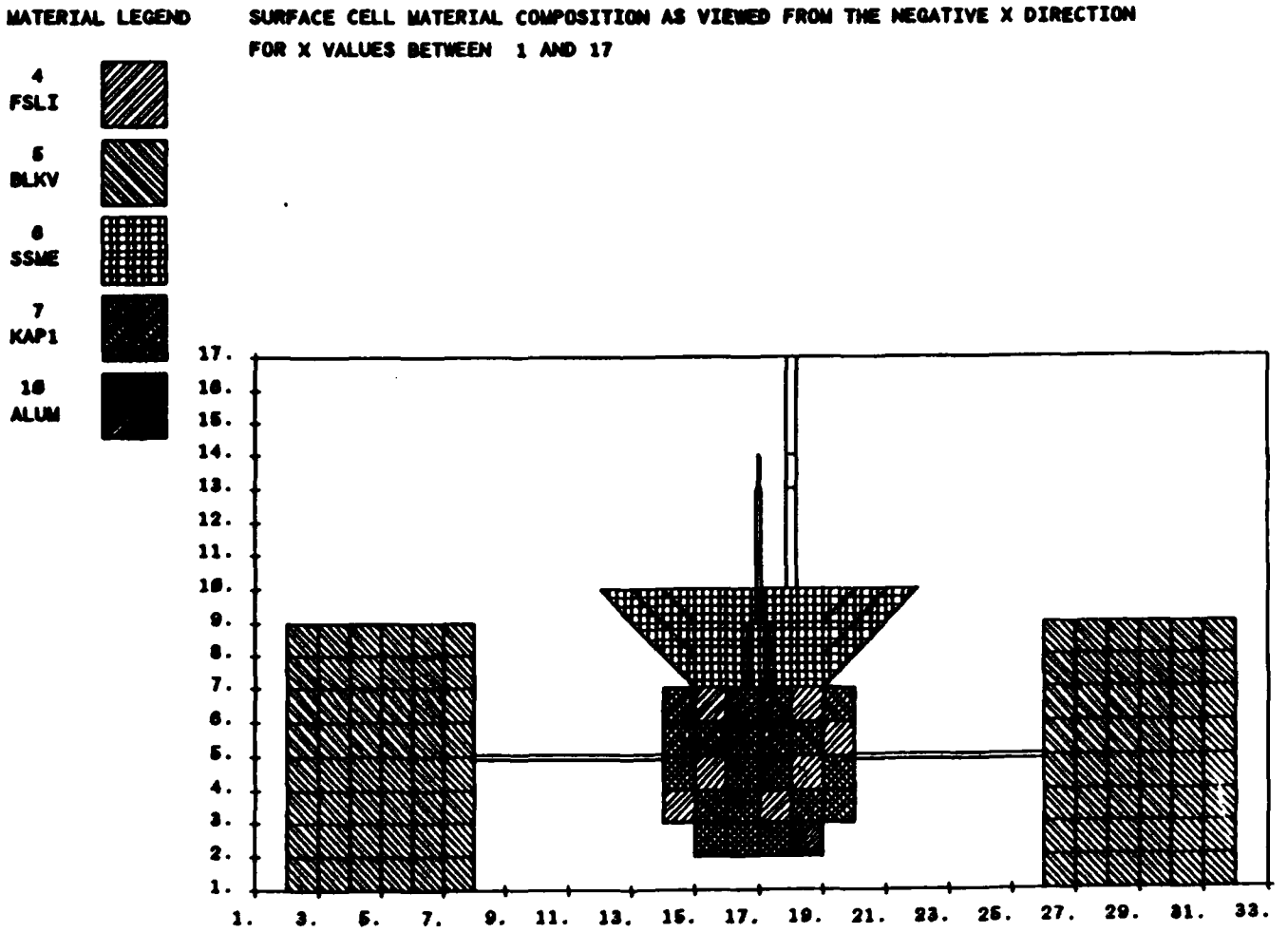
```
ENDOBJ
ASLANT
CORNER -4 1 -2
FACE SSMESH 0 -1 -1
LENGTH 4 3 3
ENDOBJ
ATET
CORNER 0 1 -2
FACE SSMESH 1 -1 -1
LENGTH 3
ENDOBJ
COMMENT
COMMENT UHF TRANSMIT ANTENNA MAST
BOOM
AXIS -2 -2 0  -2 0 0
RADIUS 0.218
SURFACE S13GL0
ENDOBJ
BOOM
AXIS -2 0 0  -2 4 0
RADIUS 0.083
SURFACE ALUM
ENDOBJ
BOOM
AXIS -2 4 0  -2 5 0
RADIUS 0.0416
SURFACE S13GL0
ENDOBJ
COMMENT
COMMENT SOLAR ARRAY PLUME SHIELD
PLATE
CORNER -4 -7 -2
DELTAS 0 1 3
TOP -X KAP1TN
BOTTOM +X ALUM
ENDOBJ
PLATE
CORNER -4 -7 1
DELTAS 0 1 1
TOP -X ALUM
BOTTOM +X ALUM
ENDOBJ
PLATE
CORNER -4 -7 2
DELTAS 3 1 0
TOP +Z KAP1TN
BOTTOM -Z ALUM
ENDOBJ
PLATE
CORNER -1 -7 2
DELTAS 1 1 0
TOP +Z ALUM
BOTTOM -Z ALUM
ENDOBJ
PLATE
CORNER 0 -7 -1
```

```
DELTAS 0 1 3
TOP +X KAP1TN
BOTTOM -X ALUM
ENDOBJ
PLATE
CORNER 0 -7 -2
DELTAS 0 1 1
TOP +X ALUM
BOTTOM -X ALUM
ENDOBJ
PLATE
CORNER -3 -7 -2
DELTAS 3 1 0
TOP -Z KAP1TN
BOTTOM +Z ALUM
ENDOBJ
PLATE
CORNER -4 -7 -2
DELTAS 1 1 0
TOP -Z ALUM
BOTTOM +Z ALUM
ENDOBJ
COMMENT
COMMENT AKM NOZZLE
PATCHR
CORNER -2 -6 0
DELTAS 1 1 1
SURFACE -Y CPHENL
ENDOBJ
COMMENT
COMMENT UHF RECEIVE ANTENNA
COMMENT GROUND PLANE CAVITY
WEDGE
CORNER 6 0 1
FACE ALUM 1 0 1
LENGTH 1 1 1
SURFACE -X ALUM
SURFACE +Y ALUM
SURFACE -Y ALUM
SURFACE -Z ALUM
ENDOBJ
WEDGE
CORNER 6 0 1
FACE ALUM -1 0 1
LENGTH 1 1 1
SURFACE +X ALUM
SURFACE +Y ALUM
SURFACE -Y ALUM
SURFACE -Z ALUM
ENDOBJ
WEDGE
CORNER 6 0 1
FACE ALUM 1 0 -1
LENGTH 1 1 1
SURFACE -X ALUM
SURFACE +Y ALUM
```

```
SURFACE -Y ALUM
SURFACE +Z ALUM
ENDOBJ
WEDGE
CORNER 6 0 1
FACE ALUM -1 0 -1
LENGTH 1 1 1
SURFACE +X ALUM
SURFACE +Y ALUM
SURFACE -Y ALUM
SURFACE +Z ALUM
ENDOBJ
COMMENT ANTENNA MAST
BOOM
AXIS 6 1 1  6 4 1
RADIUS 0.167
SURFACE S13GL0
ENDOBJ
BOOM
AXIS 6 4 1  6 5 1
RADIUS 0.167
SURFACE ALUM
ENDOBJ
BOOM
AXIS 6 5 1  6 8 1
RADIUS 0.167
SURFACE S13GL0
ENDOBJ
COMMENT ANTENNA BOOMS
BOOM
AXIS 1 -2 0  6 -2 0
RADIUS 0.333
SURFACE LFALUM
ENDOBJ
BOOM
AXIS 6 -2 0  6 0 0
RADIUS 0.333
SURFACE LFALUM
ENDOBJ
COMMENT
COMMENT SOLAR ARRAY PANELS
COMMENT PANELS // YZ PLANE
COMMENT CELL SIDE +X
PLATE
CORNER -2 -8 9
DELTAS 0 8 6
TOP +X FSLICA
BOTTOM -X BLKVEL
ENDOBJ
PLATE
CORNER -2 -8 -15
DELTAS 0 8 6
TOP +X FSLICA
BOTTOM -X BLKVEL
ENDOBJ
PLATE
```

```
CORNER -2 -4 13
DELTAS 0 1 1
TOP +X KAP1TN
BOTTOM -X BLKVEL
ENDOBJ
PLATE
CORNER -2 -4 -14
DELTAS 0 1 1
TOP +X KAP1TN
BOTTOM -X BLKVEL
ENDOBJ
COMMENT SOLAR ARRAY BOOMS
BOOM
AXIS -2 -4 3  -2 -4 9
RADIUS 0.06
SURFACE LFALUM
ENDOBJ
BOOM
AXIS -2 -4 -9  -2 -4 -3
RADIUS 0.06
SURFACE LFALUM
ENDOBJ
ENDSAT
```


MATERIAL LEGEND
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE POSITIVE X DIRECTION
FOR X VALUES BETWEEN 1 AND 17
4
FSLI
6
SSME
7
KAP1
10
ALUM
17.
16.
15.
14.
13.
12.
11.
10.
9.
8.
7.
6.
5.
4.
3.
2.
1.
33. 31. 29. 27. 25. 23. 21. 19. 17. 15. 13. 11. 9. 7. 5. 3. 1.


MATERIAL LEGEND
4
FSLI
5
BLKV
6
SSME
7
KAP1
16
ALUM
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE NEGATIVE X DIRECTION
FOR X VALUES BETWEEN 1 AND 17
17.
16.
15.
14.
13.
12.
11.
10.
9.
8.
7.
6.
5.
4.
3.
2.
1.
1. 3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23. 25. 27. 29. 31. 33.

MATERIAL LEGEND

3 S13G

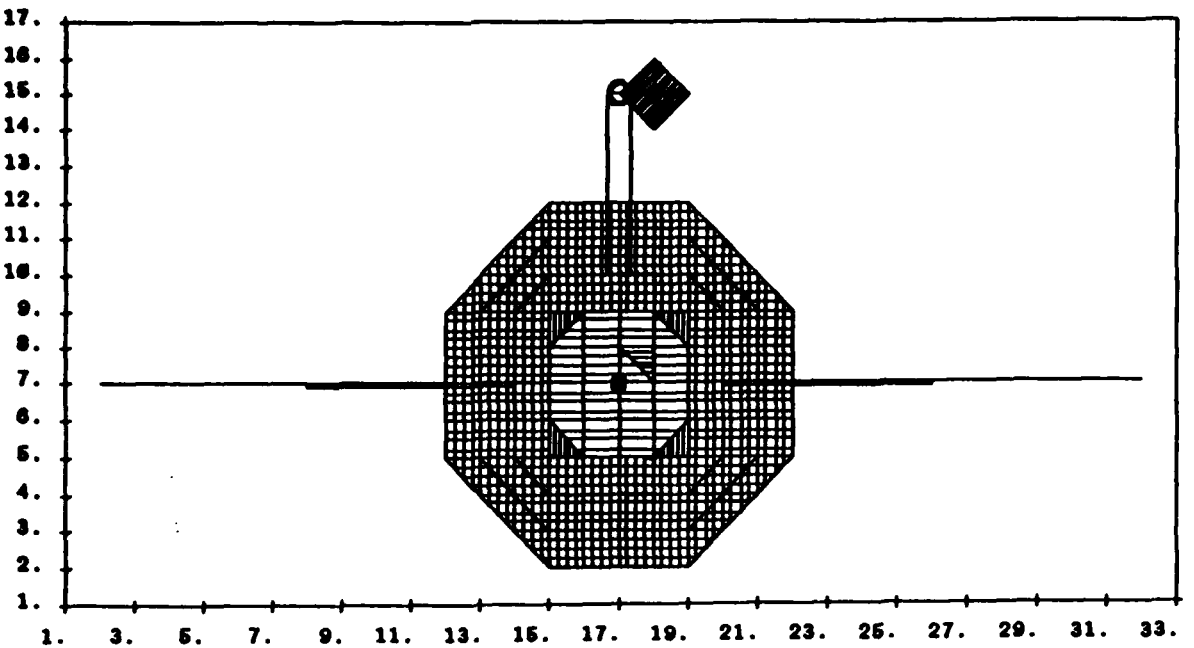
6 SSME

8 KAP2

9 EHFP

10 ALUM

SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE POSITIVE Y DIRECTION
FOR Y VALUES BETWEEN 1 AND 17



MATERIAL LEGEND

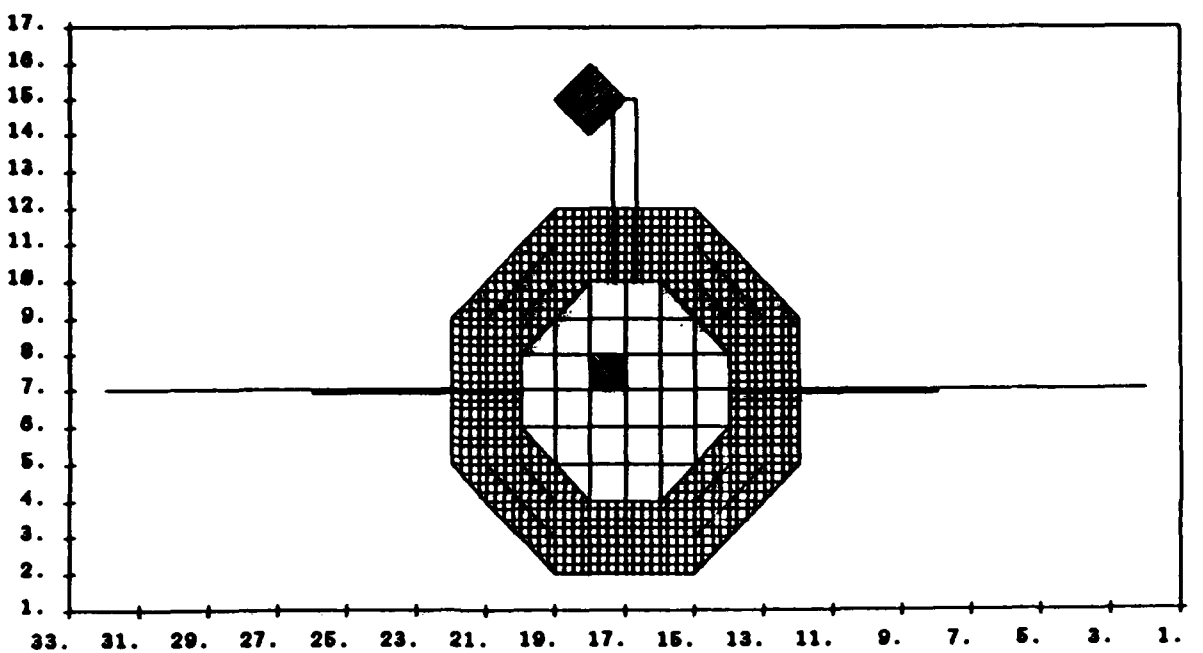
1
KAP3

6
SSME

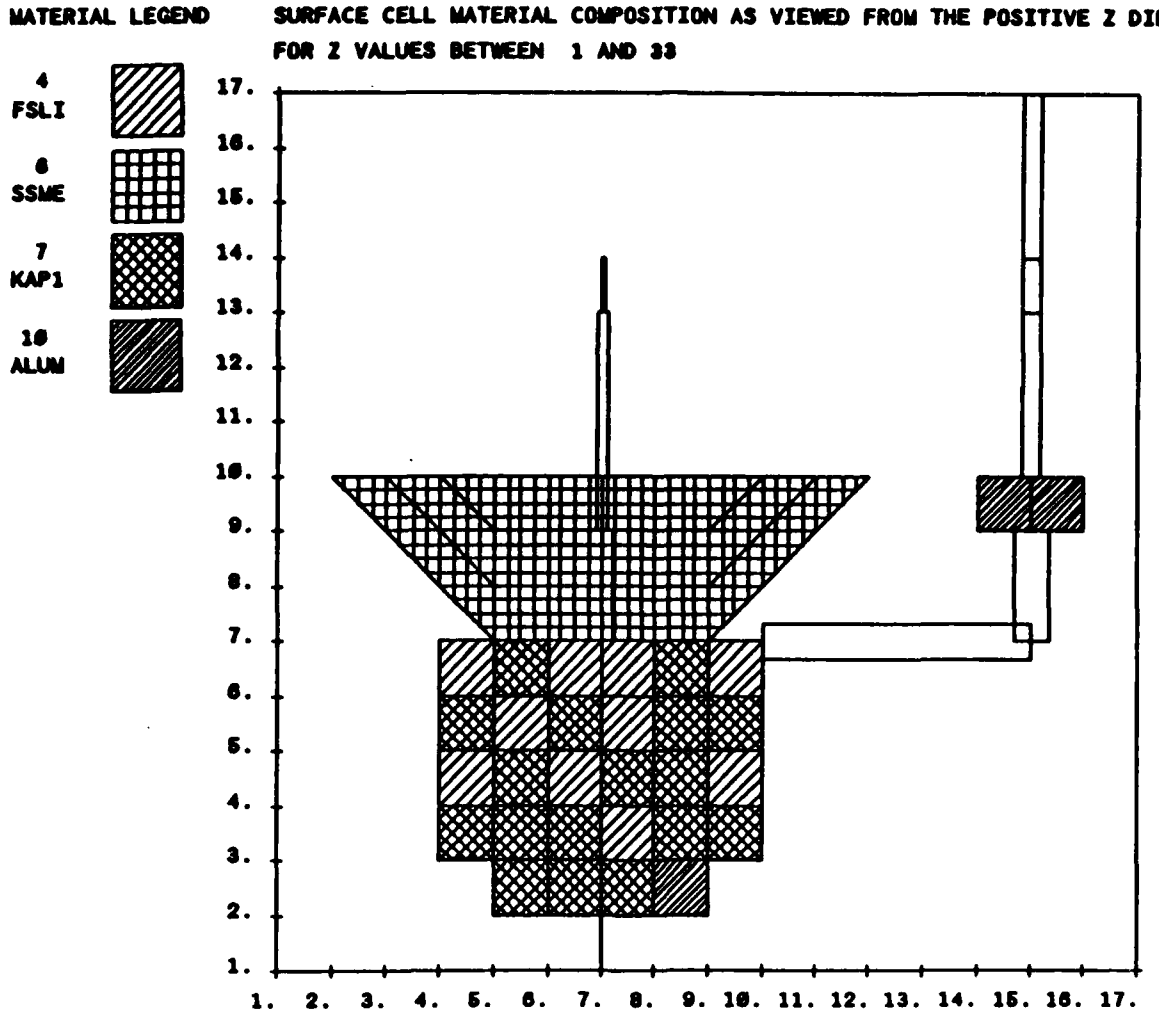
10
ALUM

11
CPHE

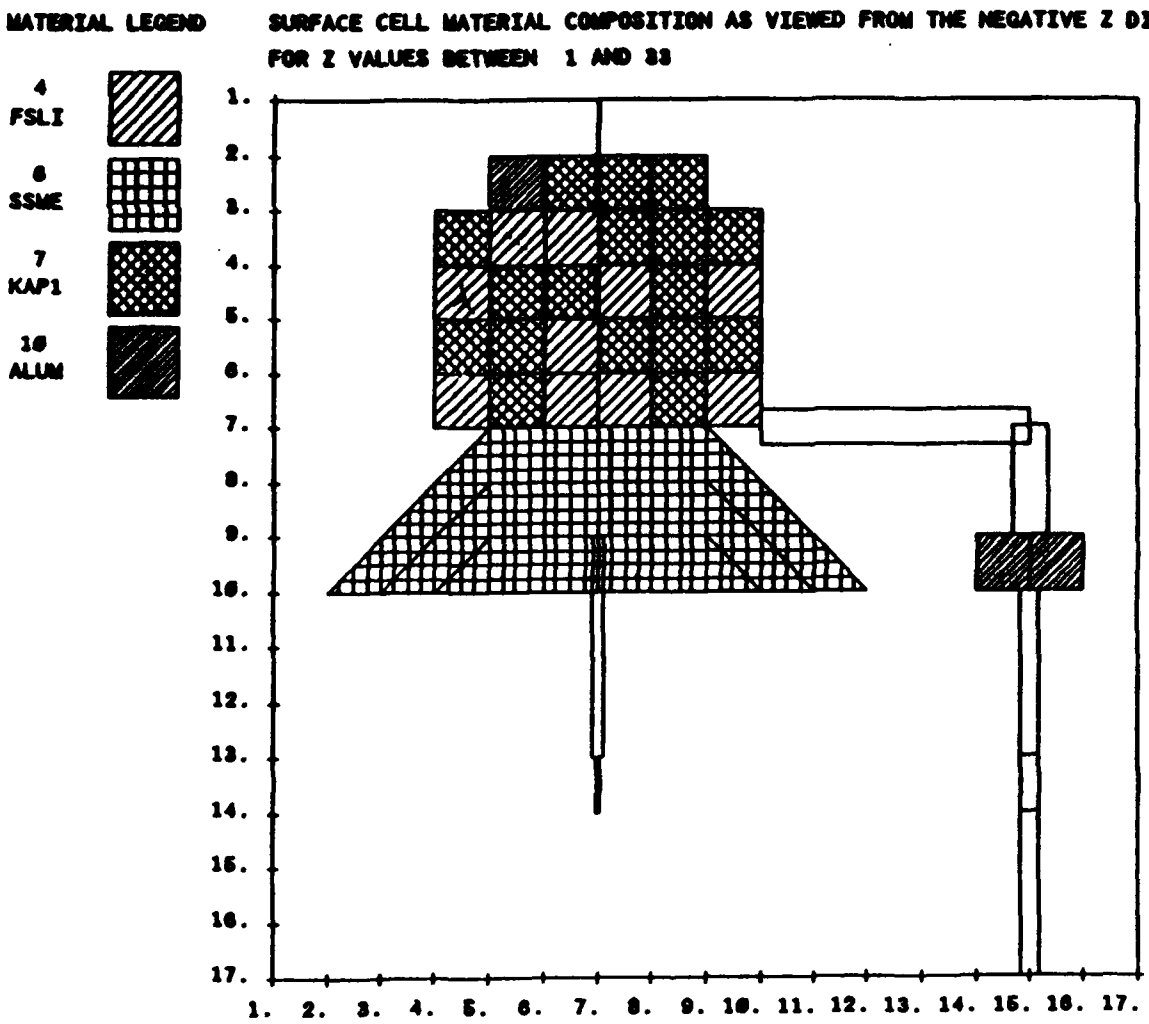
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE NEGATIVE Y DIRECTION
FOR Y VALUES BETWEEN 1 AND 17

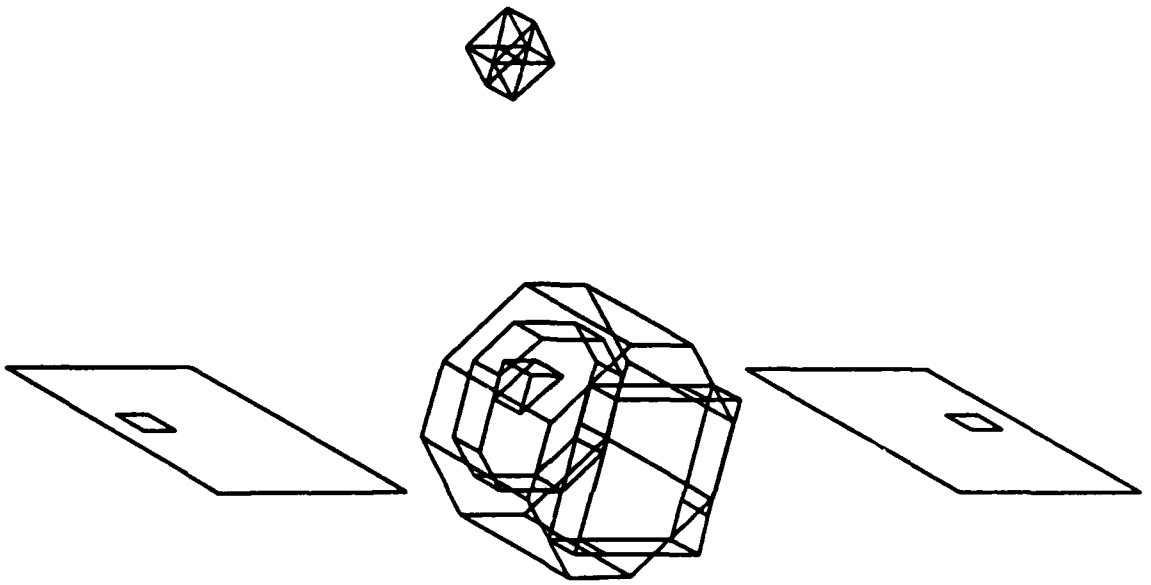


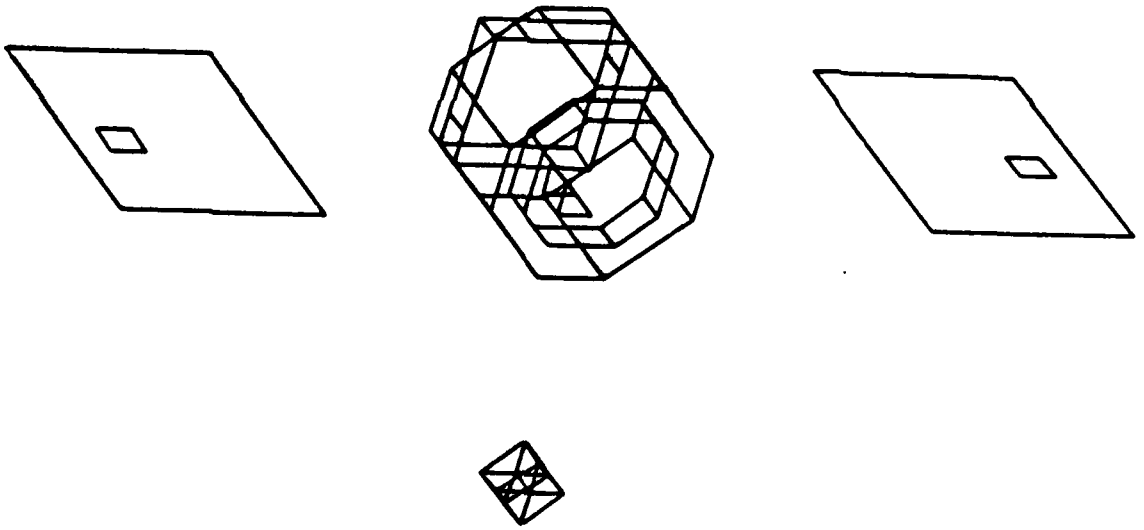
C-14

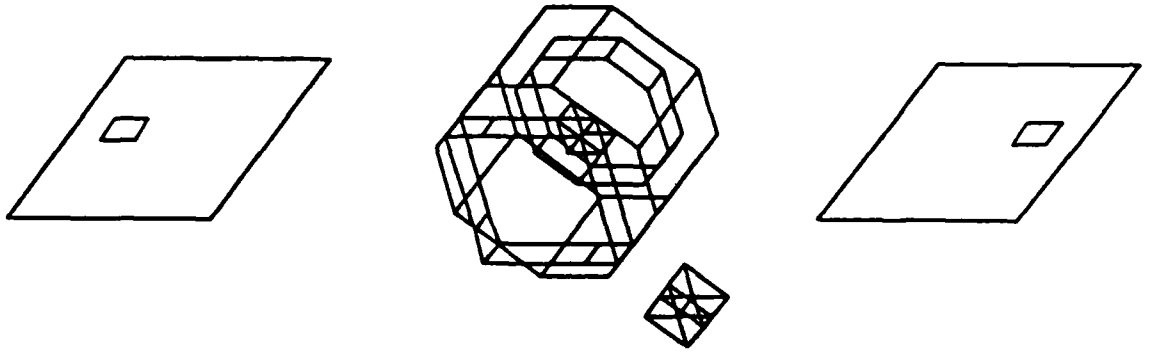

MATERIAL LEGEND
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE POSITIVE Z DIRECTION
FOR Z VALUES BETWEEN 1 AND 33
4
FSLI
6
SSME
7
KAP1
10
ALUM
17.
16.
15.
14.
13.
12.
11.
10.
9.
8.
7.
6.
5.
4.
3.
2.
1.
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.

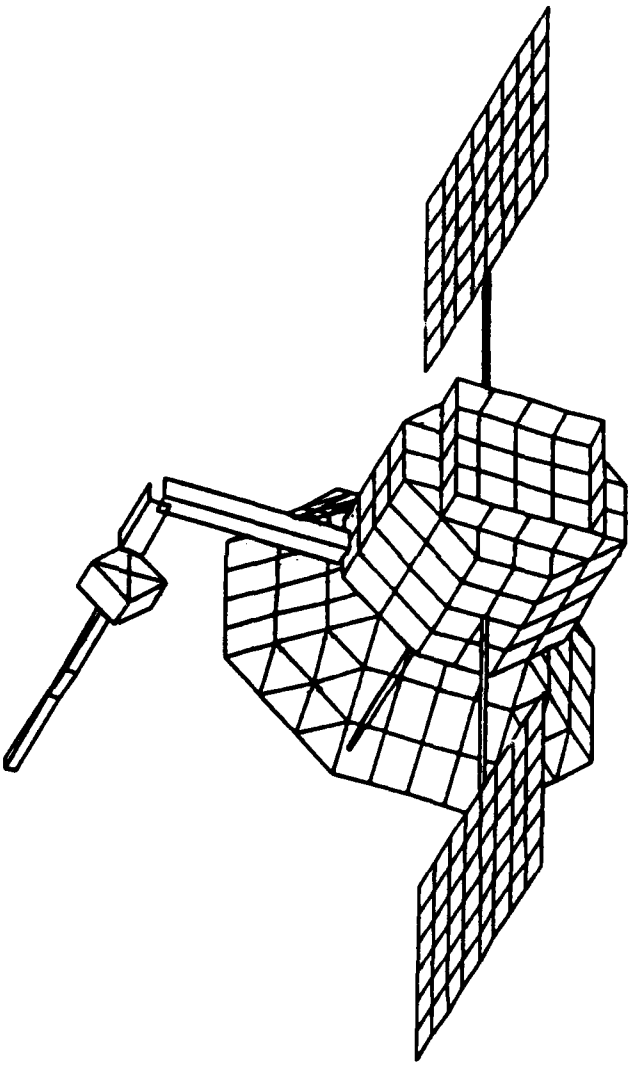
-X-

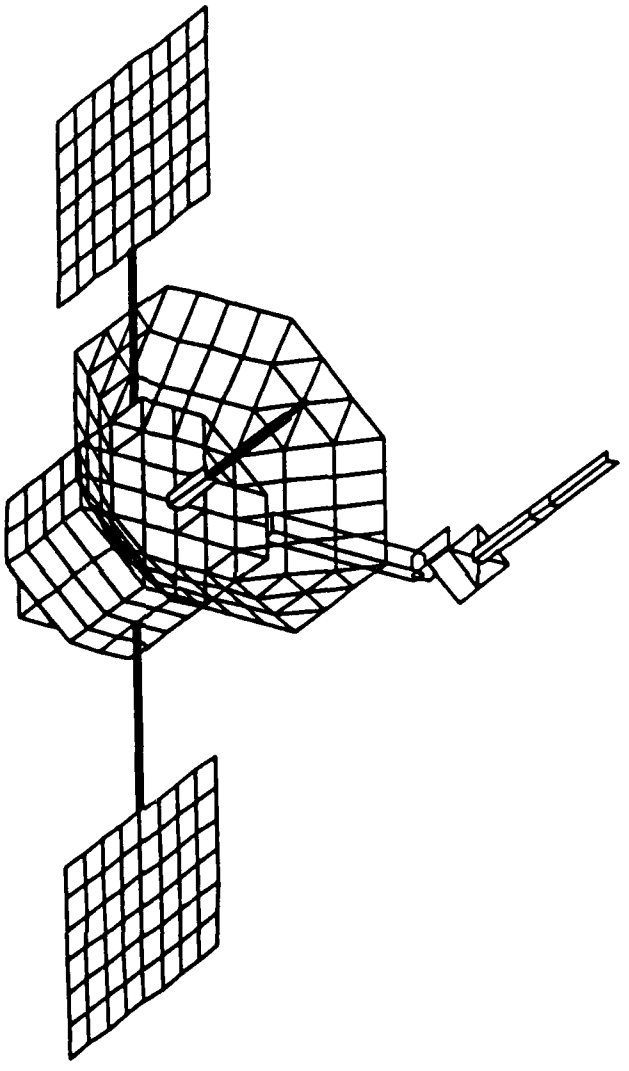

MATERIAL LEGEND
4
FSLI
6
SSME
7
KAP1
10
ALUM
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE NEGATIVE Z DIRECTION
FOR Z VALUES BETWEEN 1 AND 33
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.

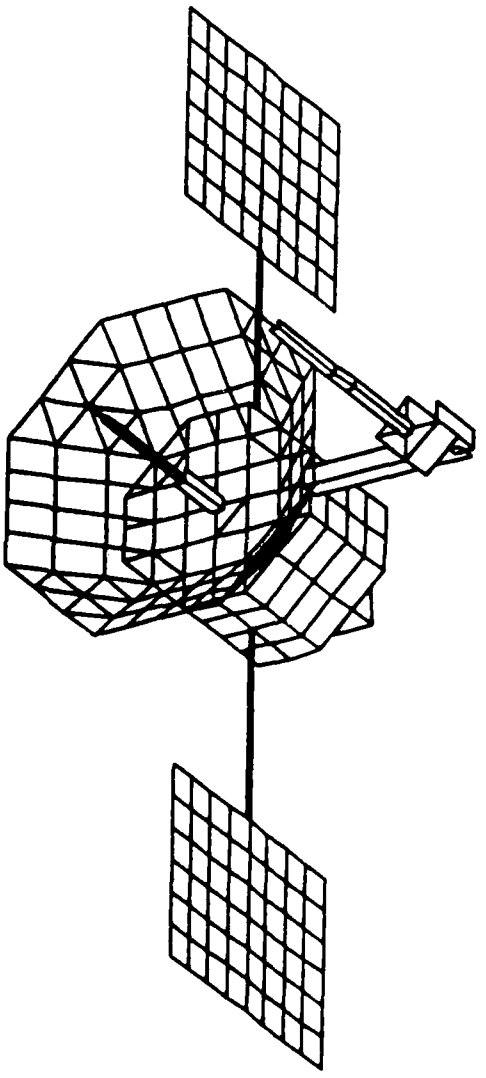












FLTSATCOM IGES File Description: FLTSATCOM.TAP

```
IGES CONSTRUCTION OF  FLTSATCOM.PRT                                          S0000001
,,13HFLTSATCOM.PRT,,24HANVIL-5000, REL 1, REV 0,,32,8,23,11,52,,1.,1,4HIG0000001
NCH,0,,13H877721.112300,,,,;                                                 G0000002
     124       1       1                                0        000100  D0000001
     124                       1                                          D0000002
     410       2       1                                1        000100  D0000003
     410                       1                                          D0000004
     124       3       1                                0        000100  D0000005
     124                       1                                          D0000006
     410       4       1                                5        000100  D0000007
     410                       1                                          D0000008
     124       5       1                                0        000100  D0000009
     124                       1                                          D0000010
     410       6       1                                9        000100  D0000011
     410                       1                                          D0000012
     124       7       1                                0        000100  D0000013
     124                       2                                          D0000014
     410       9       1                               13        000100  D0000015
     410                       1                                          D0000016
     124      10       1                                0        000100  D0000017
     124                       1                                          D0000018
     410      11       1                               17        000100  D0000019
     410                       1                                          D0000020
     124      12       1                                0        000100  D0000021
     124                       1                                          D0000022
     410      13       1                               21        000100  D0000023
     410                       1                                          D0000024
     124      14       1                                0        000100  D0000025
     124                       1                                          D0000026
     410      15       1                               25        000100  D0000027
     410                       1                                          D0000028
     124      16       1                                0        000100  D0000029
     124                       2                                          D0000030
     410      18       1                               29        000100  D0000031
     410                       1                                          D0000032
     124      19       1                                0        000100  D0000033
     124                       3                                          D0000034
     410      22       1                               33        000100  D0000035
     410                       1                                          D0000036
     124      23       1                                0        000100  D0000037
     124                       3                                          D0000038
     410      26       1                               37        000100  D0000039
     410                       1                                          D0000040
     124      27       1                                0        000100  D0000041
     124                       3                                          D0000042
     410      30       1                               41        000100  D0000043
     410                       1                                          D0000044
     116      31       2       1      121               0        00000000D0000045
     116       0       0       1                          SURF(1)         D0000046
     100      32       2       1      121               0        00010000D0000047
     100       0       0       2                                          D0000048
     100      34       2       1      121               0        00010000D0000049
     100       0       0       2                                          D0000050
     118      36       2       1        1               0        00000000D0000051
     118       0       0       1        1                 SURF(2)         D0000052
     100      37       2       1        1               0        00010000D0000053
     100       0       0       2                                          D0000054
     100      39       2       1        1               0        00010000D0000055
     100       0       0       2                                          D0000056
     118      41       2       1        8               0        00000000D0000057
     118       0       7       1        1                 SURF(3)         D0000058
     114      42       2       1        7               0        01000000D0000059
     114       0       6     259                          SURF(4)         D0000060
     116     301       2       1      111               0        00000000D0000061
```

FLTSATCOM IGES File Description: FLTSATCOM.TAP

```
116       0       0       1
110     302       2       1     111
110       0       0       2
110     304       2       1     111
110       0       0       2
118     306       2       1       4
118       0       3       1       1
116     307       2       1     111
116       0       0       1
110     308       2       1     111
110       0       0       2
110     310       2       1     111
110       0       0       2
118     312       2       1       4
118       0       3       1       1
116     313       2       1     111
116       0       0       1
110     314       2       1     111
110       0       0       2
110     316       2       1     111
110       0       0       2
118     318       2       1       4
118       0       3       1       1
116     319       2       1     111
116       0       0       1
110     320       2       1     111
110       0       0       2
110     322       2       1     111
110       0       0       2
118     324       2       1       4
118       0       3       1       1
116     325       2       1     111
116       0       0       1
110     326       2       1     111
110       0       0       2
110     328       2       1     111
110       0       0       2
118     330       2       1       4
118       0       3       1       1
116     331       2       1     111
116       0       0       1
110     332       2       1     111
110       0       0       2
110     334       2       1     111
110       0       0       2
118     336       2       1       4
118       0       3       1       1
116     337       2       1     111
116       0       0       1
110     338       2       1     111
110       0       0       2
110     340       2       1     111
110       0       0       2
118     342       2       1       4
118       0       3       1       1
116     343       2       1     111
116       0       0       1
110     344       2       1     111
110       0       0       2
110     346       2       1     111
110       0       0       2
118     348       2       1       4
118       0       3       1       1
116     349       2       1     111
```

```
  SURF(5)          D0000062
0          00010000D0000063
                   D0000064
0          00010000D0000065
                   D0000066
0          00000000D0000067
  SURF(6)          D0000068
0          00000000D0000069
  SURF(7)          D0000070
0          00010000D0000071
                   D0000072
0          00010000D0000073
                   D0000074
0          00000000D0000075
  SURF(8)          D0000076
0          00000000D0000077
  SURF(9)          D0000078
0          00010000D0000079
                   D0000080
0          00010000D0000081
                   D0000082
0          00000000D0000083
 SURF(10)          D0000084
0          00000000D0000085
 SURF(11)          D0000086
0          00010000D0000087
                   D0000088
0          00010000D0000089
                   D0000090
0          00000000D0000091
 SURF(12)          D0000092
0          00000000D0000093
 SURF(13)          D0000094
0          00010000D0000095
                   D0000096
0          00010000D0000097
                   D0000098
0          00000000D0000099
 SURF(14)          D0000100
0          00000000D0000101
 SURF(15)          D0000102
0          00010000D0000103
                   D0000104
0          00010000D0000105
                   D0000106
0          00000000D0000107
 SURF(16)          D0000108
0          00000000D0000109
 SURF(17)          D0000110
0          00010000D0000111
                   D0000112
0          00010000D0000113
                   D0000114
0          00000000D0000115
 SURF(18)          D0000116
0          00000000D0000117
 SURF(19)          D0000118
0          00010000D0000119
                   D0000120
0          00010000D0000121
                   D0000122
0          00000000D0000123
 SURF(20)          D0000124
0          00000000D0000125
```

```
116      0      0      1                      SURF(21)        D0000126
110    350      2      1    111             0        00010000D0000127
110      0      0      2                                      D0000128
110    352      2      1    111             0        00010000D0000129
110      0      0      2                                      D0000130
118    354      2      1      4             0        00000000D0000131
118      0      3      1      1              SURF(22)        D0000132
116    355      2      1    111             0        00000000D0000133
116      0      0      1                      SURF(23)        D0000134
110    356      2      1    111             0        00010000D0000135
110      0      0      2                                      D0000136
110    358      2      1    111             0        00010000D0000137
110      0      0      2                                      D0000138
118    360      2      1      4             0        00000000D0000139
118      0      3      1      1              SURF(24)        D0000140
116    361      2      1    111             0        00000000D0000141
116      0      0      1                      SURF(25)        D0000142
110    362      2      1    111             0        00010000D0000143
110      0      0      2                                      D0000144
110    364      2      1    111             0        00010000D0000145
110      0      0      2                                      D0000146
118    366      2      1      4             0        00000000D0000147
118      0      3      1      1              SURF(26)        D0000148
116    367      2      1    111             0        00000000D0000149
116      0      0      1                      SURF(27)        D0000150
110    368      2      1    111             0        00010000D0000151
110      0      0      2                                      D0000152
110    370      2      1    111             0        00010000D0000153
110      0      0      2                                      D0000154
118    372      2      1      4             0        00000000D0000155
118      0      3      1      1              SURF(28)        D0000156
116    373      2      1    111             0        00000000D0000157
116      0      0      1                      SURF(29)        D0000158
110    374      2      1    111             0        00010000D0000159
110      0      0      2                                      D0000160
110    376      2      1    111             0        00010000D0000161
110      0      0      2                                      D0000162
118    378      2      1      4             0        00000000D0000163
118      0      3      1      1              SURF(30)        D0000164
116    379      2      1    112             0        00000000D0000165
116      0      0      1                      SURF(31)        D0000166
110    380      2      1    112             0        00010000D0000167
110      0      0      2                                      D0000168
110    382      2      1    112             0        00010000D0000169
110      0      0      2                                      D0000170
118    384      2      1      4             0        00000000D0000171
118      0      3      1      1              SURF(32)        D0000172
116    385      2      1    112             0        00000000D0000173
116      0      0      1                      SURF(33)        D0000174
110    386      2      1    112             0        00010000D0000175
110      0      0      2                                      D0000176
110    388      2      1    112             0        00010000D0000177
110      0      0      2                                      D0000178
118    390      2      1      4             0        00000000D0000179
118      0      3      1      1              SURF(34)        D0000180
116    391      2      1    112             0        00000000D0000181
116      0      0      1                      SURF(35)        D0000182
110    392      2      1    112             0        00010000D0000183
110      0      0      2                                      D0000184
110    394      2      1    112             0        00010000D0000185
110      0      0      2                                      D0000186
118    396      2      1      4             0        00000000D0000187
118      0      3      1      1              SURF(36)        D0000188
116    397      2      1    112             0        00000000D0000189
```

```
116       0       0       1                       SURF(37)        D0000190
110     398       2       1     112             0        00010000D0000191
110       0       0       2                                      D0000192
110     400       2       1     112             0        00010000D0000193
110       0       0       2                                      D0000194
118     402       2       1       4             0        00000000D0000195
118       0       3       1       1              SURF(38)        D0000196
116     403       2       1     112             0        00000000D0000197
116       0       0       1                       SURF(39)        D0000198
110     404       2       1     112             0        00010000D0000199
110       0       0       2                                      D0000200
110     406       2       1     112             0        00010000D0000201
110       0       0       2                                      D0000202
118     408       2       1       4             0        00000000D0000203
118       0       3       1       1              SURF(40)        D0000204
116     409       2       1     112             0        00000000D0000205
116       0       0       1                       SURF(41)        D0000206
110     410       2       1     112             0        00010000D0000207
110       0       0       2                                      D0000208
110     412       2       1     112             0        00010000D0000209
110       0       0       2                                      D0000210
118     414       2       1       4             0        00000000D0000211
118       0       3       1       1              SURF(42)        D0000212
116     415       2       1     112             0        00000000D0000213
116       0       0       1                       SURF(43)        D0000214
110     416       2       1     112             0        00010000D0000215
110       0       0       2                                      D0000216
110     418       2       1     112             0        00010000D0000217
110       0       0       2                                      D0000218
118     420       2       1       4             0        00000000D0000219
118       0       3       1       1              SURF(44)        D0000220
116     421       2       1     112             0        00000000D0000221
116       0       0       1                       SURF(45)        D0000222
110     422       2       1     112             0        00010000D0000223
110       0       0       2                                      D0000224
110     424       2       1     112             0        00010000D0000225
110       0       0       2                                      D0000226
118     426       2       1       4             0        00000000D0000227
118       0       3       1       1              SURF(46)        D0000228
116     427       2       1     112             0        00000000D0000229
116       0       0       1                       SURF(47)        D0000230
110     428       2       1     112             0        00010000D0000231
110       0       0       2                                      D0000232
110     430       2       1     112             0        00010000D0000233
110       0       0       2                                      D0000234
118     432       2       1       4             0        00000000D0000235
118       0       3       1       1              SURF(48)        D0000236
116     433       2       1     112             0        00000000D0000237
116       0       0       1                       SURF(49)        D0000238
110     434       2       1     112             0        00010000D0000239
110       0       0       2                                      D0000240
110     436       2       1     112             0        00010000D0000241
110       0       0       2                                      D0000242
118     438       2       1       4             0        00000000D0000243
118       0       3       1       1              SURF(50)        D0000244
116     439       2       1     104             0        00000000D0000245
116       0       0       1                       SURF(63)        D0000246
110     440       2       1     104             0        00010000D0000247
110       0       0       2                                      D0000248
110     442       2       1     104             0        00010000D0000249
110       0       0       2                                      D0000250
118     444       2       1      11             0        00000000D0000251
118       0       9       1       1              SURF(64)        D0000252
110     445       2       1      11             0        00010000D0000253
```

```
110       0       9       2                                        D0000254
110     447       2       1      11                0        00010000D0000255
110       0       9       2                                        D0000256
118     449       2       1       4                0        00000000D0000257
118       0       6       1       1                 SURF(65)        D0000258
116     450       2       1     104                0        00000000D0000259
116       0       0       1                         SURF(66)        D0000260
110     451       2       1     104                0        00010000D0000261
110       0       0       2                                        D0000262
110     453       2       1     104                0        00010000D0000263
110       0       0       2                                        D0000264
118     455       2       1      11                0        00000000D0000265
118       0       9       1       1                 SURF(67)        D0000266
110     456       2       1      11                0        00010000D0000267
110       0       9       2                                        D0000268
110     458       2       1      11                0        00010000D0000269
110       0       9       2                                        D0000270
118     460       2       1       8                0        00000000D0000271
118       0       9       1       1                 SURF(68)        D0000272
116     461       2       1     121                0        00000000D0000273
116       0       0       1                         SURF(75)        D0000274
100     462       2       1     121                0        00010000D0000275
100       0       0       2                              OCT1       D0000276
100     464       2       1     121                0        00010000D0000277
100       0       0       2                              OCT2       D0000278
118     466       2       1       3                0        00000000D0000279
118       0       2       1       1                 SURF(76)        D0000280
116     467       2       1     102                0        00000000D0000281
116       0       0       1                         SURF(77)        D0000282
110     468       2       1     102                0        00010000D0000283
110       0       0       2                                        D0000284
110     470       2       1     102                0        00010000D0000285
110       0       0       2                                        D0000286
118     472       2       1       8                0        00000000D0000287
118       0       7       1       1                 SURF(78)        D0000288
110     473       2       1       8                0        00010000D0000289
110       0       7       2                                        D0000290
110     475       2       1       8                0        00010000D0000291
110       0       7       2                                        D0000292
118     477       2       1       9                0        00000000D0000293
118       0       8       1       1                 SURF(79)        D0000294
110     478       2       1       9                0        00010000D0000295
110       0       8       2                                        D0000296
110     480       2       1       9                0        00010000D0000297
110       0       8       2                                        D0000298
116     482       2       1     106                0        00000000D0000299
116       0       0       1                         SURF(80)        D0000300
118     483       2       1       6                0        00000000D0000301
118       0       5       1       1                 SURF(81)        D0000302
110     484       2       1       6                0        00010000D0000303
110       0       5       2                                        D0000304
110     486       2       1       6                0        00010000D0000305
110       0       5       2                                        D0000306
116     488       2       1     106                0        00000000D0000307
116       0       0       1                         SURF(82)        D0000308
118     489       2       1       6                0        00000000D0000309
118       0       5       1       1                 SURF(83)        D0000310
110     490       2       1       6                0        00010000D0000311
110       0       5       2                                        D0000312
110     492       2       1       6                0        00010000D0000313
110       0       5       2                                        D0000314
116     494       2       1     106                0        00000000D0000315
116       0       0       1                         SURF(84)        D0000316
118     495       2       1       6                0        00000000D0000317
```

```
118      0      5      1      1                 SURF(85)        D0000318
116    496      2      1    107                0        00000000D0000319
116      0      0      1                        SURF(88)        D0000320
110    497      2      1    107                0        00010000D0000321
110      0      0      2                                        D0000322
110    499      2      1    107                0        00010000D0000323
110      0      0      2                                        D0000324
118    501      2      1      6                0        00000000D0000325
118      0      5      1      1                 SURF(89)        D0000326
116    502      2      1    107                0        00000000D0000327
116      0      0      1                        SURF(90)        D0000328
110    503      2      1    107                0        00010000D0000329
110      0      0      2                                        D0000330
110    505      2      1    107                0        00010000D0000331
110      0      0      2                                        D0000332
118    507      2      1      6                0        00000000D0000333
118      0      5      1      1                 SURF(91)        D0000334
116    508      2      1    107                0        00000000D0000335
116      0      0      1                        SURF(92)        D0000336
110    509      2      1    107                0        00010000D0000337
110      0      0      2                                        D0000338
110    511      2      1    107                0        00010000D0000339
110      0      0      2                                        D0000340
118    513      2      1      6                0        00000000D0000341
118      0      5      1      1                 SURF(93)        D0000342
116    514      2      1    107                0        00000000D0000343
116      0      0      1                        SURF(94)        D0000344
110    515      2      1    107                0        00010000D0000345
110      0      0      2                                        D0000346
110    517      2      1    107                0        00010000D0000347
110      0      0      2                                        D0000348
118    519      2      1      6                0        00000000D0000349
118      0      5      1      1                 SURF(95)        D0000350
116    520      2      1    109                0        00000000D0000351
116      0      0      1                        SURF(96)        D0000352
110    521      2      1      3                0        00010000D0000353
110      0      2      1                                        D0000354
110    522      2      1      3                1        00010000D0000355
110      0      2      1                        SURF(97)        D0000356
120    523      2      1      3                1        00000000D0000357
120      0      2      1                        SURF(97)        D0000358
116    524      2      1    109                0        00000000D0000359
116      0      0      1                        SURF(98)        D0000360
110    525      2      1     10                0        00010000D0000361
110      0      9      1                                        D0000362
110    526      2      1     10                1        00010000D0000363
110      0      9      1                        SURF(99)        D0000364
120    527      2      1     10                1        00000000D0000365
120      0      9      1                        SURF(99)        D0000366
116    528      2      1    109                0        00000000D0000367
116      0      0      1                        SURF(100        D0000368
110    529      2      1      3                0        00010000D0000369
110      0      2      1                                        D0000370
110    530      2      1      3                1        00010000D0000371
110      0      2      1                        SURF(101        D0000372
120    531      2      1      3                1        00000000D0000373
120      0      2      1                        SURF(101        D0000374
116    532      2      1    111                0        00000000D0000375
116      0      0      1                        SURF(102        D0000376
110    533      2      1    111                0        00010000D0000377
110      0      0      2                                        D0000378
110    535      2      1    111                0        00010000D0000379
110      0      0      2                                        D0000380
118    537      2      1     11                0        00000000D0000381
```

```
118       0      10       1       1                 SURF(103         D0000382
116     538       2       1     109                0         00000000D0000383
116       0       0       1                         SURF(104         D0000384
110     539       2       1       3                0         00010000D0000385
110       0       2       1                                          D0000386
110     540       2       1       3                1         00010000D0000387
110       0       2       1                         SURF(105         D0000388
120     541       2       1       3                1         00000000D0000389
120       0       2       1                         SURF(105         D0000390
116     542       2       1     109                0         00000000D0000391
116       0       0       1                         SURF(106         D0000392
110     543       2       1      10                0         00010000D0000393
110       0       9       1                                          D0000394
110     544       2       1      10                1         00010000D0000395
110       0       9       1                         SURF(107         D0000396
120     545       2       1      10                1         00000000D0000397
120       0       9       1                         SURF(107         D0000398
116     546       2       1     109                0         00000000D0000399
116       0       0       1                         SURF(108         D0000400
110     547       2       1       3                0         00010000D0000401
110       0       2       1                                          D0000402
110     548       2       1       3                1         00010000D0000403
110       0       2       1                         SURF(109         D0000404
120     549       2       1       3                1         00000000D0000405
120       0       2       1                         SURF(109         D0000406
116     550       2       1     109                0         00000000D0000407
116       0       0       1                         SURF(110         D0000408
110     551       2       1       2                0         00010000D0000409
110       0       1       1                                          D0000410
110     552       2       1       2                1         00010000D0000411
110       0       1       1                         SURF(111         D0000412
120     553       2       1       2                1         00000000D0000413
120       0       1       1                         SURF(111         D0000414
116     554       2       1     109                0         00000000D0000415
116       0       0       1                         SURF(112         D0000416
110     555       2       1       2                0         00010000D0000417
110       0       1       1                                          D0000418
110     556       2       1       2                1         00010000D0000419
110       0       1       1                         SURF(113         D0000420
120     557       2       1       2                1         00000000D0000421
120       0       1       1                         SURF(113         D0000422
116     558       2       1     102                0         00000000D0000423
116       0       0       1                         SURF(114         D0000424
110     559       2       1     102                0         00010000D0000425
110       0       0       2                                          D0000426
110     561       2       1     102                0         00010000D0000427
110       0       0       2                                          D0000428
118     563       2       1      10                0         00000000D0000429
118       0       9       1       1                 SURF(115         D0000430
110     564       2       1      10                0         00010000D0000431
110       0       9       2                                          D0000432
110     566       2       1      10                0         00010000D0000433
110       0       9       2                                          D0000434
118     568       2       1      10                0         00000000D0000435
118       0       9       1       1                 SURF(116         D0000436
110     569       2       1      10                0         00010000D0000437
110       0       9       2                                          D0000438
110     571       2       1      10                0         00010000D0000439
110       0       9       2                                          D0000440
118     573       2       1      10                0         00000000D0000441
118       0       9       1       1                 SURF(117         D0000442
110     574       2       1      10                0         00010000D0000443
110       0       9       2                                          D0000444
110     576       2       1      10                0         00010000D0000445
```

```
 110      0      9      2                                        D0000446
 118    578      2      1     10          0        00000000D0000447
 118      0      9      1      1           SURF(118          D0000448
 110    579      2      1     10          0        00010000D0000449
 110      0      9      2                                        D0000450
 110    581      2      1     10          0        00010000D0000451
 110      0      9      2                                        D0000452
 118    583      2      1     10          0        00000000D0000453
 118      0      9      1      1           SURF(119          D0000454
 116    584      2      1    102          0        00000000D0000455
 116      0      0      1                  SURF(120          D0000456
 110    585      2      1    102          0        00010000D0000457
 110      0      0      2                                        D0000458
 110    587      2      1    102          0        00010000D0000459
 110      0      0      2                                        D0000460
 118    589      2      1     10          0        00000000D0000461
 118      0      9      1      1           SURF(121          D0000462
 110    590      2      1     10          0        00010000D0000463
 110      0      9      2                                        D0000464
 110    592      2      1     10          0        00010000D0000465
 110      0      9      2                                        D0000466
 118    594      2      1     10          0        00000000D0000467
 118      0      9      1      1           SURF(122          D0000468
 110    595      2      1     10          0        00010000D0000469
 110      0      9      2                                        D0000470
 110    597      2      1     10          0        00010000D0000471
 110      0      9      2                                        D0000472
 118    599      2      1     10          0        00000000D0000473
 118      0      9      1      1           SURF(123          D0000474
 110    600      2      1     10          0        00010000D0000475
 110      0      9      2                                        D0000476
 110    602      2      1     10          0        00010000D0000477
 110      0      9      2                                        D0000478
 118    604      2      1     10          0        00000000D0000479
 118      0      9      1      1           SURF(124          D0000480
 110    605      2      1     10          0        00010000D0000481
 110      0      9      2                                        D0000482
 110    607      2      1     10          0        00010000D0000483
 110      0      9      2                                        D0000484
 118    609      2      1     10          0        00000000D0000485
 118      0      9      1      1           SURF(125          D0000486
 116    610      2      1    102          0        00000000D0000487
 116      0      0      1                  SURF(126          D0000488
 110    611      2      1    102          0        00010000D0000489
 110      0      0      2                                        D0000490
 110    613      2      1    102          0        00010000D0000491
 110      0      0      2                                        D0000492
 118    615      2      1     10          0        00000000D0000493
 118      0      9      1      1           SURF(127          D0000494
 110    616      2      1     10          0        00010000D0000495
 110      0      9      2                                        D0000496
 110    618      2      1     10          0        00010000D0000497
 110      0      9      2                                        D0000498
 118    620      2      1     10          0        00000000D0000499
 118      0      9      1      1           SURF(128          D0000500
 110    621      2      1     10          0        00010000D0000501
 110      0      9      2                                        D0000502
 110    623      2      1     10          0        00010000D0000503
 110      0      9      2                                        D0000504
 118    625      2      1     10          0        00000000D0000505
 118      0      9      1      1           SURF(129          D0000506
 110    626      2      1     10          0        00010000D0000507
 110      0      9      2                                        D0000508
 110    628      2      1     10          0        00010000D0000509
```

```
110       0       9       2                                        D0000510
118     630       2       1      10              0        00000000D0000511
118       0       9       1       1               SURF(130        D0000512
110     631       2       1      10              0        00010000D0000513
110       0       9       2                                        D0000514
110     633       2       1      10              0        00010000D0000515
110       0       9       2                                        D0000516
118     635       2       1      10              0        00000000D0000517
118       0       9       1       1               SURF(131        D0000518
116     636       2       1     102              0        00000000D0000519
116       0       0       1                       SURF(132        D0000520
110     637       2       1     102              0        00010000D0000521
110       0       0       2                                        D0000522
110     639       2       1     102              0        00010000D0000523
110       0       0       2                                        D0000524
118     641       2       1      10              0        00000000D0000525
118       0       9       1       1               SURF(133        D0000526
110     642       2       1      10              0        00010000D0000527
110       0       9       2                                        D0000528
110     644       2       1      10              0        00010000D0000529
110       0       9       2                                        D0000530
118     646       2       1      10              0        00000000D0000531
118       0       9       1       1               SURF(134        D0000532
110     647       2       1      10              0        00010000D0000533
110       0       9       2                                        D0000534
110     649       2       1      10              0        00010000D0000535
110       0       9       2                                        D0000536
118     651       2       1      10              0        00000000D0000537
118       0       9       1       1               SURF(135        D0000538
110     652       2       1      10              0        00010000D0000539
110       0       9       2                                        D0000540
110     654       2       1      10              0        00010000D0000541
110       0       9       2                                        D0000542
118     656       2       1      10              0        00000000D0000543
118       0       9       1       1               SURF(136        D0000544
110     657       2       1      10              0        00010000D0000545
110       0       9       2                                        D0000546
110     659       2       1      10              0        00010000D0000547
110       0       9       2                                        D0000548
118     661       2       1      10              0        00000000D0000549
118       0       9       1       1               SURF(137        D0000550
116     662       2       1     104              0        00000000D0000551
116       0       0       1                       SURF(138        D0000552
110     663       2       1     104              0        00010000D0000553
110       0       0       2                                        D0000554
110     665       2       1     104              0        00010000D0000555
110       0       0       2                                        D0000556
118     667       2       1       7              0        00000000D0000557
118       0       3       1       1               SURF(139        D0000558
110     668       2       1       7              0        00010000D0000559
110       0       3       2                                        D0000560
110     670       2       1       7              0        00010000D0000561
110       0       3       2                                        D0000562
118     672       2       1       4              0        00000000D0000563
118       0       4       1       1               SURF(140        D0000564
116     673       2       1     104              0        00000000D0000565
116       0       0       1                       SURF(141        D0000566
110     674       2       1     104              0        00010000D0000567
110       0       0       2                                        D0000568
110     676       2       1     104              0        00010000D0000569
110       0       0       2                                        D0000570
118     678       2       1       7              0        00000000D0000571
118       0       3       1       1               SURF(142        D0000572
110     679       2       1       7              0        00010000D0000573
```

```
110      0     3     2                                    D0000574
110    681     2     1     7          0        00010000D0000575
110      0     3     2                                    D0000576
118    683     2     1     4          0        00000000D0000577
118      0     4     1     1           SURF(143         D0000578
116    684     2     1   104          0        00000000D0000579
116      0     0     1                 SURF(147         D0000580
110    685     2     1   104          0        00010000D0000581
110      0     0     2                                    D0000582
110    687     2     1   104          0        00010000D0000583
110      0     0     2                                    D0000584
118    689     2     1     7          0        00000000D0000585
118      0     6     1     1           SURF(148         D0000586
110    690     2     1     7          0        00010000D0000587
110      0     6     2                                    D0000588
110    692     2     1     7          0        00010000D0000589
110      0     6     2                                    D0000590
118    694     2     1     4          0        00000000D0000591
118      0     4     1     1           SURF(149         D0000592
116    695     2     1   104          0        00000000D0000593
116      0     0     1                 SURF(144         D0000594
110    696     2     1   104          0        00010000D0000595
110      0     0     2                                    D0000596
110    698     2     1   104          0        00010000D0000597
110      0     0     2                                    D0000598
118    700     2     1     7          0        00000000D0000599
118      0     6     1     1           SURF(145         D0000600
110    701     2     1     7          0        00010000D0000601
110      0     6     2                                    D0000602
110    703     2     1     7          0        00010000D0000603
110      0     6     2                                    D0000604
118    705     2     1     4          0        00000000D0000605
118      0     4     1     1           SURF(146         D0000606
116    706     2     1   109          0        00000000D0000607
116      0     0     1                 SURF(150         D0000608
110    707     2     1     2          0        00010000D0000609
110      0     1     1                                    D0000610
110    708     2     1     2          1        00010000D0000611
110      0     1     1                 SURF(151         D0000612
120    709     2     1     2          1        00000000D0000613
120      0     1     1                 SURF(151         D0000614
116    710     2     1   109          0        00000000D0000615
116      0     0     1                 SURF(152         D0000616
110    711     2     1     2          0        00010000D0000617
110      0     1     1                                    D0000618
110    712     2     1     2          1        00010000D0000619
110      0     1     1                 SURF(153         D0000620
120    713     2     1     2          1        00000000D0000621
120      0     1     1                 SURF(153         D0000622
110    714     2     1     2          0        00010000D0000623
110      0     1     2                      LL1         D0000624
110    716     2     1     2          0        00010000D0000625
110      0     1     2                      LL2         D0000626
116    718     2     1   106          0        00000000D0000627
116      0     0     1                 SURF(86)         D0000628
118    719     2     1     6          0        00000000D0000629
118      0     5     1     1           SURF(87)         D0000630
116    720     2     1   104          0        00000000D0000631
116      0     0     1                 SURF(51)         D0000632
110    721     2     1   104          0        00010000D0000633
110      0     0     2                                    D0000634
110    723     2     1   104          0        00010000D0000635
110      0     0     2                                    D0000636
118    725     2     1    11          0        00000000D0000637
```

```
118       0       9       1       1                                SURF(52)          D0000638
110     726       2       1      11                              0          00010000D0000639
110       0       9       2                                                         D0000640
110     728       2       1      11                              0          00010000D0000641
110       0       9       2                                                         D0000642
118     730       2       1       4                              0          00000000D0000643
118       0       6       1       1                               SURF(53)          D0000644
116     731       2       1     104                              0          00000000D0000645
116       0       0       1                                       SURF(54)          D0000646
110     732       2       1     104                              0          00010000D0000647
110       0       0       2                                                         D0000648
110     734       2       1     104                              0          00010000D0000649
110       0       0       2                                                         D0000650
118     736       2       1      11                              0          00000000D0000651
118       0       9       1       1                               SURF(55)          D0000652
110     737       2       1      11                              0          00010000D0000653
110       0       9       2                                                         D0000654
110     739       2       1      11                              0          00010000D0000655
110       0       9       2                                                         D0000656
118     741       2       1       8                              0          00000000D0000657
118       0       9       1       1                               SURF(56)          D0000658
116     742       2       1     104                              0          00000000D0000659
116       0       0       1                                       SURF(57)          D0000660
110     743       2       1     104                              0          00010000D0000661
110       0       0       2                                                         D0000662
110     745       2       1     104                              0          00010000D0000663
110       0       0       2                                                         D0000664
118     747       2       1      10                              0          00000000D0000665
118       0       9       1       1                               SURF(58)          D0000666
110     748       2       1      10                              0          00010000D0000667
110       0       9       2                                                         D0000668
110     750       2       1      10                              0          00010000D0000669
110       0       9       2                                                         D0000670
118     752       2       1       9                              0          00000000D0000671
118       0       9       1       1                               SURF(59)          D0000672
116     753       2       1     104                              0          00000000D0000673
116       0       0       1                                       SURF(60)          D0000674
110     754       2       1     104                              0          00010000D0000675
110       0       0       2                                                         D0000676
110     756       2       1     104                              0          00010000D0000677
110       0       0       2                                                         D0000678
118     758       2       1      10                              0          00000000D0000679
118       0       9       1       1                               SURF(61)          D0000680
110     759       2       1      10                              0          00010000D0000681
110       0       9       2                                                         D0000682
110     761       2       1      10                              0          00010000D0000683
110       0       9       2                                                         D0000684
118     763       2       1       5                              0          00000000D0000685
118       0       6       1       1                               SURF(62)          D0000686
116     764       2       1     104                              0          00000000D0000687
116       0       0       1                                       SURF(69)          D0000688
110     765       2       1     104                              0          00010000D0000689
110       0       0       2                                                         D0000690
110     767       2       1     104                              0          00010000D0000691
110       0       0       2                                                         D0000692
118     769       2       1      11                              0          00000000D0000693
118       0       9       1       1                               SURF(70)          D0000694
110     770       2       1      11                              0          00010000D0000695
110       0       9       2                                                         D0000696
110     772       2       1      11                              0          00010000D0000697
110       0       9       2                                                         D0000698
118     774       2       1       8                              0          00000000D0000699
118       0       9       1       1                               SURF(71)          D0000700
116     775       2       1     104                              0          00000000D0000701
```

```
     116       0       0       1                          SURF(72)        D0000702
     110     776       2       1     104              0        00010000D0000703
     110       0       0       2                                        D0000704
     110     778       2       1     104              0        00010000D0000705
     110       0       0       2                                        D0000706
     118     780       2       1      11              0        00000000D0000707
     118       0       9       1       1                SURF(73)        D0000708
     110     781       2       1      11              0        00010000D0000709
     110       0       9       2                            LL1        D0000710
     110     783       2       1      11              0        00010000D0000711
     110       0       9       2                            LL2        D0000712
     118     785       2       1       4              0        00000000D0000713
     118       0       6       1       1                SURF(74)        D0000714
124,1.,0.,0.,0.,0.,1.,0.,0.,0.,0.,1.,0.;                              00000001P0000001
410,1;                                                                00000003P0000002
124,1.,0.,0.,0.,0.,0.,-1.,0.,0.,1.,0.,0.;                             00000005P0000003
410,2;                                                                00000007P0000004
124,0.,0.,1.,0.,0.,1.,0.,0.,-1.,0.,0.,0.;                             00000009P0000005
410,3;                                                                00000011P0000006
124,0.866025403784,0.,-0.5,0.,-0.25,0.866025403784,                   00000013P0000007
-0.433012701892,0.,0.433012701892,0.5,0.75,0.;                        00000013P0000008
410,4;                                                                00000015P0000009
124,-1.,0.,0.,0.,0.,1.,0.,0.,0.,0.,-1.,0.;                            00000017P0000010
410,5;                                                                00000019P0000011
124,1.,0.,0.,0.,0.,0.,1.,0.,0.,-1.,0.,0.;                             00000021P0000012
410,6;                                                                00000023P0000013
124,0.,0.,-1.,0.,0.,1.,0.,0.,1.,0.,0.,0.;                             00000025P0000014
410,7;                                                                00000027P0000015
124,0.866025403784,0.,0.5,0.,-0.25,0.866025403784,                    00000029P0000016
0.433012701892,0.,-0.433012701892,-0.5,0.75,0.;                       00000029P0000017
410,8;                                                                00000031P0000018
124,0.798635510047,0.,0.601815023152,0.,-0.565521136334,              00000033P0000019
-0.342020143326,0.750471895489,0.,0.205832860474,                     00000033P0000020
-0.939692620786,-0.273149431611,0.;                                   00000033P0000021
410,9;                                                                00000035P0000022
124,0.874619707139,0.,0.484809620246,0.,-0.10079758787,               00000037P0000023
0.978147600734,0.181843662134,0.,-0.474215366857,                     00000037P0000024
-0.207911690818,0.855507168093,0.;                                    00000037P0000025
410,10;                                                               00000039P0000026
124,-0.44389408333,0.325568154457,-0.834843350329,0.,                 00000041P0000027
0.152844990266,0.945518575599,0.287459618289,0.,0.882947592859,       00000041P0000028
0.,-0.469471562786,0.;                                                00000041P0000029
410,11;                                                               00000043P0000030
116,16.987668161435,6.987668161435,5.;                                00000045P0000031
100,3.,16.987668161435,6.987668161435,15.987668161433,                00000047P0000032
9.987668161434,15.987668161439,3.987668161434;                        00000047P0000033
100,3.,16.987668161435,6.987668161435,17.98766816144,                 00000049P0000034
3.987668161437,17.987668161434,9.987668161435;                        00000049P0000035
118,47,49,1,0;                                                        00000051P0000036
100,7.,16.987668161435,6.987668161435,15.987668161433,                00000053P0000037
9.987668161434,15.987668161439,3.987668161434;                        00000053P0000038
100,7.,16.987668161435,6.987668161435,17.98766816144,                 00000055P0000039
3.987668161437,17.987668161434,9.987668161435;                        00000055P0000040
118,53,55,1,0;                                                        00000057P0000041
114,3,0,7,7,0.,1.,2.,3.,4.,5.,6.,7.,0.,1.,2.,3.,4.,5.,6.,7.,           00000059P0000042
13.987668161435,1.950979178499,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,0.,00000059P0000043
0.,-0.,0.,0.,5.987668161435,-1.950979178499,-0.,0.,-0.,0.,-0.,        00000059P0000044
0.,-0.,0.,0.,0.,0.,-0.,0.,0.,3.,0.,0.,0.,0.571428571429,0.,0.,        00000059P0000045
-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,15.938647339934,                    00000059P0000046
2.445392715156,1.091883092037,-1.000510191067,0.,0.,0.,0.,0.,0.,00000059P0000047
0.,0.,0.,-0.,-0.,-0.,4.036688982936,0.218130276369,                   00000059P0000048
-1.753664182301,1.974257879056,0.,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,       00000059P0000049
-0.,0.,0.,3.,0.,0.,0.,0.571428571429,0.,0.,-0.,0.,-0.,-0.,-0.,        00000059P0000050
0.,-0.,-0.,-0.,18.47541295606,1.512255205375,1.974257879056,          00000059P0000051
```

FLTSATCOM IGES File Description: FLTSATCOM.TAP

```
-1.974257879056,0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,0.,0.,-0.,       00000059P0000052
4.47541295606,2.132704598305,-0.817764389127,0.817764389127,-0.,00000059P0000053
0.,-0.,-0.,0.,-0.,0.,-0.,0.,0.,-0.,0.,3.,0.,0.,0.,               00000059P0000054
0.571428571429,0.,0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,          00000059P0000055
19.987668161435,0.487744794625,-1.463234383874,0.,0.,-0.,0.,0., 00000059P0000056
-0.,-0.,0.,0.,0.,0.,-0.,-0.,6.608117554365,2.961131723051,        00000059P0000057
-0.606091526731,-0.,-0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,   00000059P0000058
-0.,3.,0.,0.,0.,0.571428571429,0.,0.,-0.,0.,-0.,-0.,-0.,0.,-0., 00000059P0000059
-0.,-0.,19.012178572186,-1.820016481454,-0.331972823822,          00000059P0000060
-0.18274580194,-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,          00000059P0000061
8.963157750684,2.26715109787,-0.801453293609,-0.44118739351,-0.,00000059P0000062
0.,-0.,-0.,-0.,0.,0.,-0.,0.,0.,-0.,0.,3.,0.,0.,0.,               00000059P0000063
0.571428571429,0.,0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,         00000059P0000064
16.67744346497,-3.062146977506,1.818274580194,-0.909137290097,   00000059P0000065
0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,-0.,-0.,9.987668161435,          00000059P0000066
0.731617191937,-4.389703151623,2.194851575811,0.,0.,-0.,-0.,0., 00000059P0000067
-0.,-0.,-0.,0.,-0.,-0.,-0.,3.,0.,0.,0.,0.571428571429,0.,0.,-0.,00000059P0000068
0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,14.524433777561,-2.952210888692,   00000059P0000069
4.830890545132,-2.415445272566,-0.,-0.,-0.,-0.,0.,-0.,0.,0.,0., 00000059P0000070
0.,0.,-0.,8.524433777561,-1.536255425059,-2.001020382134,        00000059P0000071
1.000510191067,0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,0.,0.,3.,0.,0.,  00000059P0000072
0.,0.571428571429,0.,0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,0.,0.,00000059P0000073
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0., 00000059P0000074
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0., 00000059P0000075
0.,0.,0.,0.,13.987668161435,1.950979178499,-0.,0.,0.,0.,-0.,0.,  00000059P0000076
0.,-0.,0.,0.,0.,-0.,0.,0.,5.987668161435,-1.950979178499,-0.,0.,00000059P0000077
-0.,0.,-0.,0.,-0.,0.,0.,0.,0.,-0.,0.,0.,3.571428571429,0.,0.,0., 00000059P0000078
0.571428571429,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,0.,-0.,-0.,         00000059P0000079
15.938647339934,2.445392715156,1.091883092037,-1.000510191067,   00000059P0000080
0.,0.,0.,0.,0.,0.,0.,0.,-0.,-0.,-0.,4.036688982936,              00000059P0000081
0.218130276369,-1.753664182301,1.974257879056,0.,-0.,-0.,-0.,0.,00000059P0000082
-0.,-0.,0.,0.,-0.,0.,0.,3.571428571429,0.,0.,0.,0.571428571429,  00000059P0000083
-0.,-0.,-0.,0.,-0.,-0.,0.,0.,0.,-0.,-0.,18.47541295606,          00000059P0000084
1.512255205375,1.974257879056,-1.974257879056,0.,0.,-0.,-0.,0., 00000059P0000085
-0.,-0.,-0.,0.,0.,0.,-0.,4.47541295606,2.132704598305,           00000059P0000086
-0.817764389127,0.817764389127,-0.,0.,-0.,-0.,0.,-0.,0.,-0.,0., 00000059P0000087
0.,-0.,0.,3.571428571429,0.,0.,0.,0.571428571429,-0.,-0.,-0.,0.,00000059P0000088
-0.,-0.,0.,0.,0.,-0.,-0.,19.987668161435,0.487744794625,         00000059P0000089
-1.463234383874,0.,0.,-0.,0.,0.,-0.,-0.,0.,0.,0.,0.,-0.,-0.,    00000059P0000090
6.608117554365,2.961131723051,-0.606091526731,-0.,-0.,0.,-0.,    00000059P0000091
-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,3.571428571429,0.,0.,0.,       00000059P0000092
0.571428571429,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,0.,-0.,-0.,         00000059P0000093
19.012178572186,-1.820016481454,-0.331972823822,-0.18274580194,  00000059P0000094
-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,8.963157750684,          00000059P0000095
2.26715109787,-0.801453293609,-0.44118739351,-0.,0.,-0.,-0.,-0.,00000059P0000096
0.,0.,-0.,0.,0.,-0.,0.,3.571428571429,0.,0.,0.,0.571428571429,   00000059P0000097
-0.,-0.,-0.,0.,-0.,0.,0.,-0.,-0.,16.67744346497,                 00000059P0000098
-3.062146977506,1.818274580194,-0.909137290097,0.,0.,0.,-0.,0., 00000059P0000099
-0.,0.,0.,0.,0.,-0.,-0.,9.987668161435,0.731617191937,           00000059P0000100
-4.389703151623,2.194851575811,0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0., 00000059P0000101
-0.,-0.,-0.,3.571428571429,0.,0.,0.,0.571428571429,-0.,-0.,-0.,  00000059P0000102
0.,-0.,-0.,0.,0.,0.,-0.,-0.,14.524433777561,-2.952210888692,     00000059P0000103
4.830890545132,-2.415445272566,-0.,-0.,-0.,-0.,0.,-0.,0.,0.,0., 00000059P0000104
0.,0.,-0.,8.524433777561,-1.536255425059,-2.001020382134,        00000059P0000105
1.000510191067,0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,0.,              00000059P0000106
3.571428571429,0.,0.,0.,0.571428571429,-0.,-0.,-0.,0.,-0.,-0.,   00000059P0000107
0.,0.,0.,-0.,-0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0., 00000059P0000108
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0., 00000059P0000109
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,13.987668161435,             00000059P0000110
1.950979178499,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,   00000059P0000111
5.987668161435,-1.950979178499,-0.,0.,-0.,0.,-0.,0.,-0.,0.,0.,  00000059P0000112
0.,0.,-0.,0.,0.,4.142857142857,0.,0.,0.,0.571428571429,-0.,-0.,  00000059P0000113
0.,0.,-0.,-0.,0.,0.,-0.,-0.,-0.,15.938647339934,2.445392715156, 00000059P0000114
1.091883092037,-1.000510191067,0.,0.,0.,0.,0.,0.,0.,0.,0.,-0.,  00000059P0000115
```

```
-0.,-0.,4.036688982936,0.218130276369,-1.753664182301,                00000059P0000116
1.974257879056,0.,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,-0.,0.,0.,            00000059P0000117
4.142857142857,0.,0.,0.,0.571428571429,-0.,-0.,0.,0.,-0.,-0.,0.,      00000059P0000118
0.,-0.,-0.,-0.,18.47541295606,1.512255205375,1.974257879056,          00000059P0000119
-1.974257879056,0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,0.,0.,-0.,           00000059P0000120
4.47541295606,2.132704598305,-0.817764389127,0.817764389127,-0.,      00000059P0000121
0.,-0.,-0.,0.,-0.,0.,-0.,0.,0.,-0.,0.,4.142857142857,0.,0.,0.,        00000059P0000122
0.571428571429,-0.,-0.,0.,0.,-0.,-0.,0.,0.,-0.,-0.,-0.,              00000059P0000123
19.987668161435,0.487744794625,-1.463234383874,0.,0.,-0.,0.,0.,      00000059P0000124
-0.,-0.,0.,0.,0.,0.,-0.,-0.,6.608117554365,2.961131723051,           00000059P0000125
-0.606091526731,-0.,-0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,       00000059P0000126
-0.,4.142857142857,0.,0.,0.,0.571428571429,-0.,-0.,0.,0.,-0.,        00000059P0000127
-0.,0.,0.,-0.,-0.,-0.,19.012178572186,-1.820016481454,               00000059P0000128
-0.331972823822,-0.18274580194,-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,     00000059P0000129
-0.,0.,8.963157750684,2.26715109787,-0.801453293609,                 00000059P0000130
-0.44118739351,-0.,0.,-0.,-0.,-0.,0.,0.,-0.,0.,0.,-0.,0.,           00000059P0000131
4.142857142857,0.,0.,0.,0.571428571429,-0.,-0.,0.,0.,-0.,-0.,0.,    00000059P0000132
0.,-0.,-0.,-0.,16.67744346497,-3.062146977506,1.818274580194,       00000059P0000133
-0.909137290097,0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,-0.,-0.,           00000059P0000134
9.987668161435,0.731617191937,-4.389703151623,2.194851575811,0.,    00000059P0000135
0.,-0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,4.142857142857,0.,0.,      00000059P0000136
0.,0.571428571429,-0.,-0.,0.,0.,-0.,-0.,0.,0.,-0.,-0.,-0.,         00000059P0000137
14.524433777561,-2.952210888692,4.830890545132,-2.415445272566,    00000059P0000138
-0.,-0.,-0.,-0.,0.,-0.,0.,0.,0.,0.,-0.,8.524433777561,              00000059P0000139
-1.536255425059,-2.001020382134,1.000510191067,0.,0.,0.,-0.,0.,     00000059P0000140
-0.,0.,0.,0.,0.,0.,0.,4.142857142857,0.,0.,0.,0.571428571429,       00000059P0000141
-0.,-0.,0.,0.,-0.,-0.,0.,0.,-0.,-0.,-0.,0.,0.,0.,0.,0.,0.,0.,0.,   00000059P0000142
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,    00000059P0000143
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,             00000059P0000144
13.987668161435,1.950979178499,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,0.,   00000059P0000145
0.,-0.,0.,0.,5.987668161435,-1.950979178499,-0.,0.,-0.,0.,-0.,      00000059P0000146
0.,-0.,0.,0.,0.,0.,-0.,0.,0.,4.714285714286,-0.,0.,0.,              00000059P0000147
0.571428571429,0.,-0.,-0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,0.,           00000059P0000148
15.938647339934,2.445392715156,1.091883092037,-1.000510191067,      00000059P0000149
0.,0.,0.,0.,0.,0.,0.,0.,0.,-0.,-0.,-0.,4.036688982936,              00000059P0000150
0.218130276369,-1.753664182301,1.974257879056,0.,-0.,-0.,-0.,0.,    00000059P0000151
-0.,-0.,0.,0.,-0.,0.,0.,4.714285714286,-0.,0.,0.,0.571428571429,    00000059P0000152
0.,-0.,-0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,0.,18.47541295606,            00000059P0000153
1.512255205375,1.974257879056,-1.974257879056,0.,0.,-0.,-0.,0.,     00000059P0000154
-0.,-0.,-0.,0.,0.,0.,-0.,4.47541295606,2.132704598305,              00000059P0000155
-0.817764389127,0.817764389127,-0.,0.,-0.,-0.,0.,-0.,0.,-0.,0.,    00000059P0000156
0.,-0.,0.,4.714285714286,-0.,0.,0.,0.571428571429,0.,-0.,-0.,      00000059P0000157
-0.,-0.,-0.,0.,-0.,-0.,-0.,0.,19.987668161435,0.487744794625,       00000059P0000158
-1.463234383874,0.,0.,-0.,0.,0.,-0.,-0.,0.,0.,0.,0.,-0.,-0.,       00000059P0000159
6.608117554365,2.961131723051,-0.606091526731,-0.,-0.,0.,-0.,      00000059P0000160
-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,4.714285714286,-0.,0.,0.,        00000059P0000161
0.571428571429,0.,-0.,-0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,0.,          00000059P0000162
19.012178572186,-1.820016481454,-0.331972823822,-0.18274580194,    00000059P0000163
-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,8.963157750684,            00000059P0000164
2.26715109787,-0.801453293609,-0.44118739351,-0.,0.,-0.,-0.,-0.,   00000059P0000165
0.,0.,-0.,0.,0.,-0.,0.,4.714285714286,-0.,0.,0.,0.571428571429,    00000059P0000166
0.,-0.,-0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,0.,16.67744346497,           00000059P0000167
-3.062146977506,1.818274580194,-0.909137290097,0.,0.,0.,-0.,0.,    00000059P0000168
-0.,0.,0.,0.,0.,-0.,-0.,9.987668161435,0.731617191937,             00000059P0000169
-4.389703151623,2.194851575811,0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,    00000059P0000170
-0.,-0.,-0.,4.714285714286,-0.,0.,0.,0.571428571429,0.,-0.,-0.,    00000059P0000171
-0.,-0.,-0.,0.,-0.,-0.,-0.,0.,14.524433777561,-2.952210888692,     00000059P0000172
4.830890545132,-2.415445272566,-0.,-0.,-0.,-0.,0.,-0.,0.,0.,0.,    00000059P0000173
0.,0.,-0.,8.524433777561,-1.536255425059,-2.001020382134,          00000059P0000174
1.000510191067,0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,0.,0.,             00000059P0000175
4.714285714286,-0.,0.,0.,0.571428571429,0.,-0.,-0.,-0.,-0.,-0.,    00000059P0000176
0.,-0.,-0.,-0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,    00000059P0000177
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,    00000059P0000178
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,13.987668161435,                  00000059P0000179
```

```
1.950979178499,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,    00000059P0000180
5.987668161435,-1.950979178499,-0.,0.,-0.,0.,-0.,0.,-0.,0.,0.,   00000059P0000181
0.,0.,-0.,0.,0.,5.285714285714,0.,-0.,0.,0.571428571429,-0.,0.,   00000059P0000182
0.,0.,0.,-0.,-0.,0.,0.,-0.,0.,15.938647339934,2.445392715156,     00000059P0000183
1.091883092037,-1.000510191067,0.,0.,0.,0.,0.,0.,0.,0.,0.,-0.,   00000059P0000184
-0.,-0.,4.036688982936,0.218130276369,-1.753664182301,            00000059P0000185
1.974257879056,0.,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,-0.,0.,0.,        00000059P0000186
5.285714285714,0.,-0.,0.,0.571428571429,-0.,0.,0.,0.,0.,-0.,-0.,00000059P0000187
0.,0.,-0.,0.,18.47541295606,1.512255205375,1.974257879056,        00000059P0000188
-1.974257879056,0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,0.,0.,-0.,       00000059P0000189
4.47541295606,2.132704598305,-0.817764389127,0.817764389127,-0.,00000059P0000190
0.,-0.,-0.,0.,-0.,0.,-0.,0.,0.,-0.,0.,5.285714285714,0.,-0.,0.,  00000059P0000191
0.571428571429,-0.,0.,0.,0.,0.,-0.,-0.,0.,0.,-0.,0.,             00000059P0000192
19.987668161435,0.487744794625,-1.463234383874,0.,0.,-0.,0.,0.,  00000059P0000193
-0.,-0.,0.,0.,0.,0.,-0.,-0.,6.608117554365,2.961131723051,        00000059P0000194
-0.606091526731,-0.,-0.,0.,-0.,-0.,0.,-0.,-0.,-0.,-0.,0.,-0.,-0.,00000059P0000195
-0.,5.285714285714,0.,-0.,0.,0.571428571429,-0.,0.,0.,0.,0.,-0.,00000059P0000196
-0.,0.,0.,-0.,0.,19.012178572186,-1.820016481454,                 00000059P0000197
-0.331972823822,-0.18274580194,-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,00000059P0000198
-0.,0.,8.963157750684,2.26715109787,-0.801453293609,              00000059P0000199
-0.44118739351,-0.,0.,-0.,-0.,-0.,0.,0.,-0.,0.,0.,-0.,0.,        00000059P0000200
5.285714285714,0.,-0.,0.,0.571428571429,-0.,0.,0.,0.,0.,-0.,-0.,00000059P0000201
0.,0.,-0.,0.,16.67744346497,-3.062146977506,1.818274580194,      00000059P0000202
-0.909137290097,0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,-0.,-0.,         00000059P0000203
9.987668161435,0.731617191937,-4.389703151623,2.194851575811,0.,00000059P0000204
0.,-0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,5.285714285714,0.,-0.,  00000059P0000205
0.,0.571428571429,-0.,0.,0.,0.,0.,-0.,-0.,0.,0.,-0.,0.,         00000059P0000206
14.524433777561,-2.952210888692,4.830890545132,-2.415445272566,  00000059P0000207
-0.,-0.,-0.,-0.,0.,-0.,0.,0.,0.,0.,0.,-0.,8.524433777561,        00000059P0000208
-1.536255425059,-2.001020382134,1.000510191067,0.,0.,0.,-0.,0.,  00000059P0000209
-0.,0.,0.,0.,0.,0.,0.,5.285714285714,0.,-0.,0.,0.571428571429,    00000059P0000210
-0.,0.,0.,0.,0.,-0.,-0.,0.,0.,-0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000211
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,  00000059P0000212
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,        00000059P0000213
13.987668161435,1.950979178499,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,0.,00000059P0000214
0.,-0.,0.,0.,5.987668161435,-1.950979178499,-0.,0.,-0.,0.,-0.,   00000059P0000215
0.,-0.,0.,0.,0.,0.,-0.,0.,0.,5.857142857143,0.,0.,0.,            00000059P0000216
0.571428571429,-0.,-0.,0.,0.,0.,-0.,0.,0.,0.,-0.,0.,             00000059P0000217
15.938647339934,2.445392715156,1.091883092037,-1.000510191067,   00000059P0000218
0.,0.,0.,0.,0.,0.,0.,0.,0.,-0.,-0.,-0.,4.036688982936,           00000059P0000219
0.218130276369,-1.753664182301,1.974257879056,0.,-0.,-0.,-0.,0.,00000059P0000220
-0.,-0.,0.,0.,-0.,0.,0.,5.857142857143,0.,0.,0.,0.571428571429,  00000059P0000221
-0.,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,18.47541295606,                00000059P0000222
1.512255205375,1.974257879056,-1.974257879056,0.,0.,-0.,-0.,0.,  00000059P0000223
-0.,-0.,-0.,0.,0.,0.,-0.,4.47541295606,2.132704598305,           00000059P0000224
-0.817764389127,0.817764389127,-0.,0.,-0.,-0.,0.,-0.,0.,-0.,0.,  00000059P0000225
0.,-0.,0.,5.857142857143,0.,0.,0.,0.571428571429,-0.,-0.,0.,0.,  00000059P0000226
0.,-0.,0.,0.,0.,-0.,0.,19.987668161435,0.487744794625,           00000059P0000227
-1.463234383874,0.,0.,-0.,0.,0.,-0.,-0.,0.,0.,0.,0.,-0.,-0.,    00000059P0000228
6.608117554365,2.961131723051,-0.606091526731,-0.,-0.,0.,-0.,    00000059P0000229
-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,5.857142857143,0.,0.,0.,       00000059P0000230
0.571428571429,-0.,-0.,0.,0.,0.,-0.,0.,0.,0.,-0.,0.,             00000059P0000231
19.012178572186,-1.820016481454,-0.331972823822,-0.18274580194,  00000059P0000232
-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,8.963157750684,          00000059P0000233
2.26715109787,-0.801453293609,-0.44118739351,-0.,0.,-0.,-0.,-0.,00000059P0000234
0.,0.,-0.,0.,0.,-0.,0.,5.857142857143,0.,0.,0.,0.571428571429,   00000059P0000235
-0.,-0.,0.,0.,0.,-0.,0.,0.,0.,-0.,0.,16.67744346497,             00000059P0000236
-3.062146977506,1.818274580194,-0.909137290097,0.,0.,0.,-0.,0.,  00000059P0000237
-0.,0.,0.,0.,0.,-0.,-0.,9.987668161435,0.731617191937,           00000059P0000238
-4.389703151623,2.194851575811,0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,  00000059P0000239
-0.,-0.,-0.,5.857142857143,0.,0.,0.,0.571428571429,-0.,-0.,0.,   00000059P0000240
0.,0.,-0.,0.,0.,0.,-0.,0.,14.524433777561,-2.952210888692,       00000059P0000241
4.830890545132,-2.415445272566,-0.,-0.,-0.,-0.,0.,-0.,0.,0.,0., 00000059P0000242
0.,0.,-0.,8.524433777561,-1.536255425059,-2.001020382134,        00000059P0000243
```

FLTSATCOM IGES File Description: FLTSATCOM.TAP

```
1.000510191067,0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,0.,0.,                    00000059P0000244
5.857142857143,0.,0.,0.,0.571428571429,-0.,-0.,0.,0.,0.,-0.,0.,          00000059P0000245
0.,0.,-0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000246
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000247
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,13.987668161435,1.950979178499,            00000059P0000248
-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,5.987668161435,            00000059P0000249
-1.950979178499,-0.,0.,-0.,0.,-0.,0.,-0.,0.,0.,0.,0.,-0.,0.,0.,         00000059P0000250
6.428571428571,-0.,0.,0.,0.571428571429,-0.,-0.,-0.,-0.,0.,-0.,         00000059P0000251
-0.,0.,0.,0.,0.,15.938647339934,2.445392715156,1.091883092037,           00000059P0000252
-1.000510191067,0.,0.,0.,0.,0.,0.,0.,0.,0.,-0.,-0.,-0.,                  00000059P0000253
4.036688982936,0.218130276369,-1.753664182301,1.974257879056,0.,         00000059P0000254
-0.,-0.,-0.,0.,-0.,-0.,0.,0.,-0.,0.,0.,6.428571428571,-0.,0.,0.,         00000059P0000255
0.571428571429,-0.,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,0.,0.,                  00000059P0000256
18.47541295606,1.512255205375,1.974257879056,-1.974257879056,0.,         00000059P0000257
0.,-0.,-0.,0.,-0.,-0.,-0.,0.,0.,0.,-0.,4.47541295606,                    00000059P0000258
2.132704598305,-0.817764389127,0.817764389127,-0.,0.,-0.,-0.,0.,         00000059P0000259
-0.,0.,-0.,0.,0.,-0.,0.,6.428571428571,-0.,0.,0.,0.571428571429,         00000059P0000260
-0.,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,0.,0.,19.987668161435,                  00000059P0000261
0.487744794625,-1.463234383874,0.,0.,-0.,0.,0.,-0.,-0.,0.,0.,0.,        00000059P0000262
0.,-0.,-0.,6.608117554365,2.961131723051,-0.606091526731,-0.,            00000059P0000263
-0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,-0.,-0.,-0.,6.428571428571,-0.,         00000059P0000264
0.,0.,0.571428571429,-0.,-0.,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,0.,           00000059P0000265
19.012178572186,-1.820016481454,-0.331972823822,-0.18274580194,          00000059P0000266
-0.,0.,0.,-0.,0.,0.,0.,-0.,0.,0.,-0.,0.,8.963157750684,                  00000059P0000267
2.26715109787,-0.801453293609,-0.44118739351,-0.,0.,-0.,-0.,-0.,         00000059P0000268
0.,0.,-0.,0.,0.,-0.,0.,6.428571428571,-0.,0.,0.,0.571428571429,          00000059P0000269
-0.,-0.,-0.,-0.,0.,-0.,-0.,0.,0.,0.,0.,16.67744346497,                   00000059P0000270
-3.062146977506,1.818274580194,-0.909137290097,0.,0.,0.,-0.,0.,          00000059P0000271
-0.,0.,0.,0.,0.,-0.,-0.,9.987668161435,0.731617191937,                   00000059P0000272
-4.389703151623,2.194851575811,0.,0.,-0.,-0.,0.,-0.,-0.,-0.,0.,         00000059P0000273
-0.,-0.,-0.,6.428571428571,-0.,0.,0.,0.571428571429,-0.,-0.,-0.,         00000059P0000274
-0.,0.,-0.,-0.,0.,0.,0.,0.,14.524433777561,-2.952210888692,              00000059P0000275
4.830890545132,-2.415445272566,-0.,-0.,-0.,-0.,0.,-0.,0.,0.,0.,         00000059P0000276
0.,0.,-0.,8.524433777561,-1.536255425059,-2.001020382134,                00000059P0000277
1.000510191067,0.,0.,0.,-0.,0.,-0.,0.,0.,0.,0.,0.,0.,                   00000059P0000278
6.428571428571,-0.,0.,0.,0.571428571429,-0.,-0.,-0.,-0.,0.,-0.,         00000059P0000279
-0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000280
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000281
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000282
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000283
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000284
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000285
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000286
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000287
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000288
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000289
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000290
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000291
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000292
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000293
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000294
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000295
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000296
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000297
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000298
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00000059P0000299
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.;                         00000059P0000300
116,17.487668161435,4.5,3.487668161435;                                  00000061P0000301
110,16.987668161435,4.,2.987668161435,17.987668161435,4.,                00000063P0000302
2.987668161435;                                                          00000063P0000303
110,16.987668161435,4.,3.987668161435,17.987668161435,4.,                00000065P0000304
3.987668161435;                                                          00000065P0000305
118,63,65,0,0;                                                           00000067P0000306
116,17.487668161435,9.5,3.487668161435;                                  00000069P0000307
```

```
110,16.987668161435,10.,2.987668161435,17.987668161435,10.,      00000071P0000308
2.987668161435;                                                  00000071P0000309
110,16.987668161435,10.,3.987668161435,17.987668161435,10.,      00000073P0000310
3.987668161435;                                                  00000073P0000311
118,71,73,0,0;                                                   00000075P0000312
116,16.487668161435,9.5,5.487668161435;                          00000077P0000313
110,15.987668161435,10.,4.987668161435,16.987668161435,10.,      00000079P0000314
4.987668161435;                                                  00000079P0000315
110,15.987668161435,10.,5.987668161435,16.987668161435,10.,      00000081P0000316
5.987668161435;                                                  00000081P0000317
118,79,81,0,0;                                                   00000083P0000318
116,14.5,6.487668161435,6.512331838565;                          00000085P0000319
110,14.,5.987668161435,7.012331838565,14.,5.987668161435,        00000087P0000320
6.012331838565;                                                  00000087P0000321
110,14.,6.987668161435,7.012331838565,14.,6.987668161435,        00000089P0000322
6.012331838565;                                                  00000089P0000323
118,87,89,0,0;                                                   00000091P0000324
116,14.5,7.487668161435,6.512331838565;                          00000093P0000325
110,14.,6.987668161435,7.012331838565,14.,6.987668161435,        00000095P0000326
6.012331838565;                                                  00000095P0000327
110,14.,7.987668161435,7.012331838565,14.,7.987668161435,        00000097P0000328
6.012331838565;                                                  00000097P0000329
118,95,97,0,0;                                                   00000099P0000330
116,14.5,7.487668161435,5.512331838565;                          00000101P0000331
110,14.,6.987668161435,6.012331838565,14.,6.987668161435,        00000103P0000332
5.012331838565;                                                  00000103P0000333
110,14.,7.987668161435,6.012331838565,14.,7.987668161435,        00000105P0000334
5.012331838565;                                                  00000105P0000335
118,103,105,0,0;                                                 00000107P0000336
116,14.5,6.487668161435,4.512331838565;                          00000109P0000337
110,14.,5.987668161435,5.012331838565,14.,5.987668161435,        00000111P0000338
4.012331838565;                                                  00000111P0000339
110,14.,6.987668161435,5.012331838565,14.,6.987668161435,        00000113P0000340
4.012331838565;                                                  00000113P0000341
118,111,113,0,0.                                                 00000115P0000342
116,14.5,7.487668161435,3.512331838565;                          00000117P0000343
110,14.,6.987668161435,4.012331838565,14.,6.987668161435,        00000119P0000344
3.012331838565;                                                  00000119P0000345
110,14.,7.987668161435,4.012331838565,14.,7.987668161435,        00000121P0000346
3.012331838565;                                                  00000121P0000347
118,119,121,0,0;                                                 00000123P0000348
116,19.5,6.487668161435,3.512331838565;                          00000125P0000349
110,20.,5.987668161435,4.012331838565,20.,5.987668161435,        00000127P0000350
3.012331838565;                                                  00000127P0000351
110,20.,6.987668161435,4.012331838565,20.,6.987668161435,        00000129P0000352
3.012331838565;                                                  00000129P0000353
118,127,129,0,0;                                                 00000131P0000354
116,19.5,7.487668161435,4.512331838565;                          00000133P0000355
110,20.,6.987668161435,5.012331838565,20.,6.987668161435,        00000135P0000356
4.012331838565;                                                  00000135P0000357
110,20.,7.987668161435,5.012331838565,20.,7.987668161435,        00000137P0000358
4.012331838565;                                                  00000137P0000359
118,135,137,0,0;                                                 00000139P0000360
116,19.5,6.487668161435,5.512331838565;                          00000141P0000361
110,20.,5.987668161435,6.012331838565,20.,5.987668161435,        00000143P0000362
5.012331838565;                                                  00000143P0000363
110,20.,6.987668161435,6.012331838565,20.,6.987668161435,        00000145P0000364
5.012331838565;                                                  00000145P0000365
118,143,145,0,0;                                                 00000147P0000366
116,19.5,6.487668161435,6.512331838565;                          00000149P0000367
110,20.,5.987668161435,7.012331838565,20.,5.987668161435,        00000151P0000368
6.012331838565;                                                  00000151P0000369
110,20.,6.987668161435,7.012331838565,20.,6.987668161435,        00000153P0000370
6.012331838565;                                                  00000153P0000371
```

```
118,151,153,0,0;                                                        00000155P0000372
116,19.5,7.487668161435,6.512331838565;                                 00000157P0000373
110,20.,6.987668161435,7.012331838565,20.,6.987668161435,               00000159P0000374
6.012331838565;                                                         00000159P0000375
110,20.,7.987668161435,7.012331838565,20.,7.987668161435,               00000161P0000376
6.012331838565;                                                         00000161P0000377
118,159,161,0,0;                                                        00000163P0000378
116,14.654334828102,5.654334828102,3.5;                                 00000165P0000379
110,13.987668161435,5.987668161435,3.,14.987668161435,                  00000167P0000380
4.987668161435,3.;                                                      00000167P0000381
110,13.987668161435,5.987668161435,4.,14.987668161435,                  00000169P0000382
4.987668161435,4.;                                                      00000169P0000383
118,167,169,0,0;                                                        00000171P0000384
116,15.654334828102,4.654334828102,4.5;                                 00000173P0000385
110,14.987668161435,4.987668161435,4.,15.987668161435,                  00000175P0000386
3.987668161435,4.;                                                      00000175P0000387
110,14.987668161435,4.987668161435,5.,15.987668161435,                  00000177P0000388
3.987668161435,5.;                                                      00000177P0000389
118,175,177,0,0;                                                        00000179P0000390
116,15.654334828102,4.654334828102,6.5;                                 00000181P0000391
110,14.987668161435,4.987668161435,6.,15.987668161435,                  00000183P0000392
3.987668161435,6.;                                                      00000183P0000393
110,14.987668161435,4.987668161435,7.,15.987668161435,                  00000185P0000394
3.987668161435,7.;                                                      00000185P0000395
118,183,185,0,0;                                                        00000187P0000396
116,18.321001494768,4.654334828102,4.5;                                 00000189P0000397
110,18.987668161435,4.987668161435,4.,17.987668161435,                  00000191P0000398
3.987668161435,4.;                                                      00000191P0000399
110,18.987668161435,4.987668161435,5.,17.987668161435,                  00000193P0000400
3.987668161435,5.;                                                      00000193P0000401
118,191,193,0,0;                                                        00000195P0000402
116,18.321001494768,4.654334828102,6.5;                                 00000197P0000403
110,18.987668161435,4.987668161435,6.,17.987668161435,                  00000199P0000404
3.987668161435,6.;                                                      00000199P0000405
110,18.987668161435,4.987668161435,7.,17.987668161435,                  00000201P0000406
3.987668161435,7.;                                                      00000201P0000407
118,199,201,0,0;                                                        00000203P0000408
116,19.321001494768,5.654334828102,5.5;                                 00000205P0000409
110,19.987668161435,5.987668161435,5.,18.987668161435,                  00000207P0000410
4.987668161435,5.;                                                      00000207P0000411
110,19.987668161435,5.987668161435,6.,18.987668161435,                  00000209P0000412
4.987668161435,6.;                                                      00000209P0000413
118,207,209,0,0;                                                        00000211P0000414
116,18.321001494768,9.321001494768,4.5;                                 00000213P0000415
110,18.987668161435,8.987668161435,4.,17.987668161435,                  00000215P0000416
9.987668161435,4.;                                                      00000215P0000417
110,18.987668161435,8.987668161435,5.,17.987668161435,                  00000217P0000418
9.987668161435,5.;                                                      00000217P0000419
118,215,217,0,0;                                                        00000219P0000420
116,18.321001494768,9.321001494768,6.5;                                 00000221P0000421
110,18.987668161435,8.987668161435,6.,17.987668161435,                  00000223P0000422
9.987668161435,6.;                                                      00000223P0000423
110,18.987668161435,8.987668161435,7.,17.987668161435,                  00000225P0000424
9.987668161435,7.;                                                      00000225P0000425
118,223,225,0,0;                                                        00000227P0000426
116,15.654334828102,9.321001494768,4.5;                                 00000229P0000427
110,14.987668161435,8.987668161435,4.,15.987668161435,                  00000231P0000428
9.987668161435,4.;                                                      00000231P0000429
110,14.987668161435,8.987668161435,5.,15.987668161435,                  00000233P0000430
9.987668161435,5.;                                                      00000233P0000431
118,231,233,0,0;                                                        00000235P0000432
116,15.654334828102,9.321001494768,6.5;                                 00000237P0000433
110,14.987668161435,8.987668161435,6.,15.987668161435,                  00000239P0000434
9.987668161435,6.;                                                      00000239P0000435
```

```
110,14.987668161435,8.987668161435,7.,15.987668161435,          00000241P0000436
9.987668161435,7.;                                              00000241P0000437
118,239,241,0,0;                                                00000243P0000438
116,19.,6.487668161435,2.512331838565;                          00000245P0000439
110,19.,4.987668161435,3.012331838565,19.,4.987668161435,       00000247P0000440
2.012331838565;                                                 00000247P0000441
110,19.,7.987668161435,3.012331838565,19.,7.987668161435,       00000249P0000442
2.012331838565;                                                 00000249P0000443
118,247,249,0,0;                                                00000251P0000444
110,19.,4.987668161435,3.012331838565,19.,4.987668161435,       00000253P0000445
2.012331838565;                                                 00000253P0000446
110,19.,7.987668161435,3.012331838565,19.,7.987668161435,       00000255P0000447
2.012331838565;                                                 00000255P0000448
118,253,255,0,0;                                                00000257P0000449
116,19.,8.487668161435,2.512331838565;                          00000259P0000450
110,19.,7.987668161435,2.012331838565,19.,7.987668161435,       00000261P0000451
3.012331838565;                                                 00000261P0000452
110,19.,8.987668161435,2.012331838565,19.,8.987668161435,       00000263P0000453
3.012331838565;                                                 00000263P0000454
118,261,263,0,0;                                                00000265P0000455
110,19.,7.987668161435,2.012331838565,19.,7.987668161435,       00000267P0000456
3.012331838565;                                                 00000267P0000457
110,19.,8.987668161435,2.012331838565,19.,8.987668161435,       00000269P0000458
3.012331838565;                                                 00000269P0000459
118,267,269,0,0;                                                00000271P0000460
116,16.987668161435,6.987668161435,6.5;                         00000273P0000461
100,7.,16.987668161435,6.987668161435,15.987668161434,          00000275P0000462
8.987668161434,15.987668161438,4.987668161434;                  00000275P0000463
100,7.,16.987668161435,6.987668161435,17.987668161438,          00000277P0000464
4.987668161437,17.987668161434,8.987668161435;                  00000277P0000465
118,275,277,1,0;                                                00000279P0000466
116,17.654334828102,7.654334828102,6.5;                         00000281P0000467
110,16.987668161435,7.987668161435,6.,17.987668161435,          00000283P0000468
6.987668161435,6.;                                              00000283P0000469
110,16.987668161435,7.987668161435,7.,17.987668161435,          00000285P0000470
6.987668161435,7.;                                              00000285P0000471
118,283,285,0,0;                                                00000287P0000472
110,16.987668161435,7.987668161435,7.,17.987668161435,          00000289P0000473
7.987668161435,7.;                                              00000289P0000474
110,16.987668161435,7.987668161435,7.,17.987668161435,          00000291P0000475
6.987668161435,7.;                                              00000291P0000476
118,289,291,0,0;                                                00000293P0000477
110,15.,8.987668161435,7.012331838565,15.,11.987668161435,      00000295P0000478
10.012331838565;                                                00000295P0000479
110,19.,8.987668161435,7.012331838565,19.,11.987668161435,      00000297P0000480
10.012331838565;                                                00000297P0000481
116,17.,10.487668161435,8.512331838565;                         00000299P0000482
118,295,297,0,0;                                                00000301P0000483
110,14.987668161435,5.,6.987668161435,11.987668161435,5.,       00000303P0000484
9.987668161435;                                                 00000303P0000485
110,14.987668161435,9.,6.987668161435,11.987668161435,9.,       00000305P0000486
9.987668161435;                                                 00000305P0000487
116,13.487668161435,7.,8.487668161435;                          00000307P0000488
118,303,305,0,0;                                                00000309P0000489
110,18.987668161435,5.,6.987668161435,21.987668161435,5.,       00000311P0000490
9.987668161435;                                                 00000311P0000491
110,18.987668161435,9.,6.987668161435,21.987668161435,9.,       00000313P0000492
9.987668161435;                                                 00000313P0000493
116,20.487668161435,7.,8.487668161435;                          00000315P0000494
118,311,313,0,0;                                                00000317P0000495
116,13.987668161435,4.,8.987668161435;                          00000319P0000496
110,11.987668161435,5.,9.987668161435,14.987668161435,5.,       00000321P0000497
6.987668161435;                                                 00000321P0000498
110,11.987668161435,5.,9.987668161435,14.987668161435,2.,       00000323P0000499
```

```
9.987668161435;                                                    00000323P0000500
118,321,323,0,0;                                                   00000325P0000501
116,19.987668161435,4.,8.987668161435;                             00000327P0000502
110,21.987668161435,5.,9.987668161435,18.987668161435,5.,          00000329P0000503
6.987668161435;                                                    00000329P0000504
110,21.987668161435,5.,9.987668161435,18.987668161435,2.,          00000331P0000505
9.987668161435;                                                    00000331P0000506
118,329,331,0,0;                                                   00000333P0000507
116,20.,9.987668161435,9.012331838565;                             00000335P0000508
110,19.,8.987668161435,7.012331838565,19.,11.987668161435,         00000337P0000509
10.012331838565;                                                   00000337P0000510
110,19.,8.987668161435,7.012331838565,22.,8.987668161435,          00000339P0000511
10.012331838565;                                                   00000339P0000512
118,337,339,0,0;                                                   00000341P0000513
116,14.,9.987668161435,8.987668161435;                             00000343P0000514
110,15.,8.987668161435,6.987668161435,15.,11.987668161435,         00000345P0000515
9.987668161435;                                                    00000345P0000516
110,15.,8.987668161435,6.987668161435,12.,8.987668161435,          00000347P0000517
9.987668161435;                                                    00000347P0000518
118,345,347,0,0;                                                   00000349P0000519
116,17.,7.,8.;                                                     00000351P0000520
110,16.782,7.,7.,16.782,7.,9.;                                     00000353P0000521
110,17.,7.,7.,17.,7.,8.;                                           00000355P0000522
120,355,353,0.,6.28318530718;                                      00000357P0000523
116,17.,7.,11.;                                                    00000359P0000524
110,16.917,7.,9.,16.917,7.,13.;                                    00000361P0000525
110,17.,7.,9.,17.,7.,10.;                                          00000363P0000526
120,363,361,0.,6.28318530718;                                      00000365P0000527
116,17.,7.,13.5;                                                   00000367P0000528
110,16.9584,7.,13.,16.9584,7.,14.;                                 00000369P0000529
110,17.,7.,13.,17.,7.,14.;                                         00000371P0000530
120,371,369,0.,6.28318530718;                                      00000373P0000531
116,17.487668161435,7.487668161435,3.5;                            00000375P0000532
110,16.987668161435,6.987668161435,3.,17.987668161435,             00000377P0000533
6.987668161435,3.;                                                 00000377P0000534
110,16.987668161435,7.987668161435,3.,17.987668161435,             00000379P0000535
7.987668161435,3.;                                                 00000379P0000536
118,377,379,0,0;                                                   00000381P0000537
116,18.,15.,11.5;                                                  00000383P0000538
110,17.833,15.,10.,17.833,15.,13.;                                 00000385P0000539
110,18.,15.,10.,18.,15.,11.;                                       00000387P0000540
120,387,385,0.,6.28318530718;                                      00000389P0000541
116,18.,15.,13.5;                                                  00000391P0000542
110,17.833,15.,13.,17.833,15.,14.;                                 00000393P0000543
110,18.,15.,13.,18.,15.,14.;                                       00000395P0000544
120,395,393,0.,6.28318530718;                                      00000397P0000545
116,18.,15.,15.5;                                                  00000399P0000546
110,17.833,15.,14.,17.833,15.,17.;                                 00000401P0000547
110,18.,15.,14.,18.,15.,15.;                                       00000403P0000548
120,403,401,0.,6.28318530718;                                      00000405P0000549
116,17.,12.5,7.;                                                   00000407P0000550
110,17.,10.,7.333,17.,15.,7.333;                                   00000409P0000551
110,17.,10.,7.,17.,11.,7.;                                         00000411P0000552
120,411,409,0.,6.28318530718;                                      00000413P0000553
116,17.,15.,8.;                                                    00000415P0000554
110,17.,14.667,7.,17.,14.667,9.;                                   00000417P0000555
110,17.,15.,7.,17.,15.,8.;                                         00000419P0000556
120,419,417,0.,6.28318530718;                                      00000421P0000557
116,18.321001494768,14.654334828102,9.5;                           00000423P0000558
110,18.987668161435,14.987668161435,9.,17.987668161435,            00000425P0000559
13.987668161435,9.;                                                00000425P0000560
110,18.987668161435,14.987668161435,10.,17.987668161435,           00000427P0000561
13.987668161435,10.;                                               00000427P0000562
118,425,427,0,0;                                                   00000429P0000563
```

```
110,17.987668161435,14.987668161435,9.,17.987668161435,          00000431P0000564
13.987668161435,9.;                                              00000431P0000565
110,17.987668161435,14.987668161435,10.,17.987668161435,         00000433P0000566
13.987668161435,10.;                                             00000433P0000567
118,431,433,0,0;                                                 00000435P0000568
110,17.987668161435,14.987668161435,9.,18.987668161435,          00000437P0000569
14.987668161435,9.;                                              00000437P0000570
110,17.987668161435,14.987668161435,10.,18.987668161435,         00000439P0000571
14.987668161435,10.;                                             00000439P0000572
118,437,439,0,0;                                                 00000441P0000573
110,18.987668161435,14.987668161435,9.,17.987668161435,          00000443P0000574
14.987668161435,9.;                                              00000443P0000575
110,18.987668161435,14.987668161435,9.,17.987668161435,          00000445P0000576
13.987668161435,9.;                                              00000445P0000577
118,443,445,0,0;                                                 00000447P0000578
110,18.987668161435,14.987668161435,10.,17.987668161435,         00000449P0000579
14.987668161435,10.;                                             00000449P0000580
110,18.987668161435,14.987668161435,10.,17.987668161435,         00000451P0000581
13.987668161435,10.;                                             00000451P0000582
118,449,451,0,0;                                                 00000453P0000583
116,18.321001494768,15.321001494768,9.5;                         00000455P0000584
110,18.987668161435,14.987668161435,9.,17.987668161435,          00000457P0000585
15.987668161435,9.;                                              00000457P0000586
110,18.987668161435,14.987668161435,10.,17.987668161435,         00000459P0000587
15.987668161435,10.;                                             00000459P0000588
118,457,459,0,0;                                                 00000461P0000589
110,17.987668161435,14.987668161435,9.,17.987668161435,          00000463P0000590
15.987668161435,9.;                                              00000463P0000591
110,17.987668161435,14.987668161435,10.,17.987668161435,         00000465P0000592
15.987668161435,10.;                                             00000465P0000593
118,463,465,0,0;                                                 00000467P0000594
110,17.987668161435,14.987668161435,9.,18.987668161435,          00000469P0000595
14.987668161435,9.;                                              00000469P0000596
110,17.987668161435,14.987668161435,10.,18.987668161435,         00000471P0000597
14.987668161435,10.;                                             00000471P0000598
118,469,471,0,0;                                                 00000473P0000599
110,18.987668161435,14.987668161435,9.,17.987668161435,          00000475P0000600
14.987668161435,9.;                                              00000475P0000601
110,18.987668161435,14.987668161435,9.,17.987668161435,          00000477P0000602
15.987668161435,9.;                                              00000477P0000603
118,475,477,0,0;                                                 00000479P0000604
110,18.987668161435,14.987668161435,10.,17.987668161435,         00000481P0000605
14.987668161435,10.;                                             00000481P0000606
110,18.987668161435,14.987668161435,10.,17.987668161435,         00000483P0000607
15.987668161435,10.;                                             00000483P0000608
118,481,483,0,0;                                                 00000485P0000609
116,17.654334828102,15.321001494768,9.5;                         00000487P0000610
110,16.987668161435,14.987668161435,9.,17.987668161435,          00000489P0000611
15.987668161435,9.;                                              00000489P0000612
110,16.987668161435,14.987668161435,10.,17.987668161435,         00000491P0000613
15.987668161435,10.;                                             00000491P0000614
118,489,491,0,0;                                                 00000493P0000615
110,17.987668161435,14.987668161435,9.,17.987668161435,          00000495P0000616
15.987668161435,9.;                                              00000495P0000617
110,17.987668161435,14.987668161435,10.,17.987668161435,         00000497P0000618
15.987668161435,10.;                                             00000497P0000619
118,495,497,0,0;                                                 00000499P0000620
110,17.987668161435,14.987668161435,9.,16.987668161435,          00000501P0000621
14.987668161435,9.;                                              00000501P0000622
110,17.987668161435,14.987668161435,10.,16.987668161435,         00000503P0000623
14.987668161435,10.;                                             00000503P0000624
118,501,503,0,0;                                                 00000505P0000625
110,16.987668161435,14.987668161435,9.,17.987668161435,          00000507P0000626
14.987668161435,9.;                                              00000507P0000627
```

FLTSATCOM IGES File Description: FLTSATCOM.TAP

```
110,16.987668161435,14.987668161435,9.,17.987668161435,          00000509P0000628
15.987668161435,9.;                                              00000509P0000629
118,507,509,0,0;                                                 00000511P0000630
110,16.987668161435,14.987668161435,10.,17.987668161435,         00000513P0000631
14.987668161435,10.;                                             00000513P0000632
110,16.987668161435,14.987668161435,10.,17.987668161435,         00000515P0000633
15.987668161435,10.;                                             00000515P0000634
118,513,515,0,0;                                                 00000517P0000635
116,17.654334828102,14.654334828102,9.5;                         00000519P0000636
110,16.987668161435,14.987668161435,9.,17.987668161435,          00000521P0000637
13.987668161435,9.;                                              00000521P0000638
110,16.987668161435,14.987668161435,10.,17.987668161435,         00000523P0000639
13.987668161435,10.;                                             00000523P0000640
118,521,523,0,0;                                                 00000525P0000641
110,17.987668161435,14.987668161435,9.,17.987668161435,          00000527P0000642
13.987668161435,9.;                                              00000527P0000643
110,17.987668161435,14.987668161435,10.,17.987668161435,         00000529P0000644
13.987668161435,10.;                                             00000529P0000645
118,527,529,0,0;                                                 00000531P0000646
110,17.987668161435,14.987668161435,9.,16.987668161435,          00000533P0000647
14.987668161435,9.;                                              00000533P0000648
110,17.987668161435,14.987668161435,10.,16.987668161435,         00000535P0000649
14.987668161435,10.;                                             00000535P0000650
118,533,535,0,0;                                                 00000537P0000651
110,16.987668161435,14.987668161435,9.,17.987668161435,          00000539P0000652
14.987668161435,9.;                                              00000539P0000653
110,16.987668161435,14.987668161435,9.,17.987668161435,          00000541P0000654
13.987668161435,9.;                                              00000541P0000655
118,539,541,0,0;                                                 00000543P0000656
110,16.987668161435,14.987668161435,10.,17.987668161435,         00000545P0000657
14.987668161435,10.;                                             00000545P0000658
110,16.987668161435,14.987668161435,10.,17.987668161435,         00000547P0000659
13.987668161435,10.;                                             00000547P0000660
118,545,547,0,0;                                                 00000549P0000661
116,28.987668161435,7.,4.987668161435;                           00000551P0000662
110,25.987668161435,7.,0.987668161435,31.987668161435,7.,        00000553P0000663
0.987668161435;                                                  00000553P0000664
110,25.987668161435,7.,8.987668161435,31.987668161435,7.,        00000555P0000665
8.987668161435;                                                  00000555P0000666
118,553,555,0,0;                                                 00000557P0000667
110,25.987668161435,7.,0.987668161435,31.987668161435,7.,        00000559P0000668
0.987668161435;                                                  00000559P0000669
110,25.987668161435,7.,8.987668161435,31.987668161435,7.,        00000561P0000670
8.987668161435;                                                  00000561P0000671
118,559,561,0,0;                                                 00000563P0000672
116,4.987668161435,7.,4.987668161435;                            00000565P0000673
110,1.987668161435,7.,0.987668161435,7.987668161435,7.,          00000567P0000674
0.987668161435;                                                  00000567P0000675
110,1.987668161435,7.,8.987668161435,7.987668161435,7.,          00000569P0000676
8.987668161435;                                                  00000569P0000677
118,567,569,0,0;                                                 00000571P0000678
110,1.987668161435,7.,0.987668161435,7.987668161435,7.,          00000573P0000679
0.987668161435;                                                  00000573P0000680
110,1.987668161435,7.,8.987668161435,7.987668161435,7.,          00000575P0000681
8.987668161435;                                                  00000575P0000682
118,573,575,0,0;                                                 00000577P0000683
116,3.487668161435,7.,5.487668161435;                            00000579P0000684
110,2.987668161435,7.,4.987668161435,3.987668161435,7.,          00000581P0000685
4.987668161435;                                                  00000581P0000686
110,2.987668161435,7.,5.987668161435,3.987668161435,7.,          00000583P0000687
5.987668161435;                                                  00000583P0000688
118,581,583,0,0;                                                 00000585P0000689
110,2.987668161435,7.,4.987668161435,3.987668161435,7.,          00000587P0000690
4.987668161435;                                                  00000587P0000691
```

```
110,2.987668161435,7.,5.987668161435,3.987668161435,7.,          00000589P0000692
5.987668161435;                                                  00000589P0000693
118,587,589,0,0;                                                 00000591P0000694
116,30.487668161435,7.,5.487668161435;                           00000593P0000695
110,29.987668161435,7.,4.987668161435,30.987668161435,7.,        00000595P0000696
4.987668161435;                                                  00000595P0000697
110,29.987668161435,7.,5.987668161435,30.987668161435,7.,        00000597P0000698
5.987668161435;                                                  00000597P0000699
118,595,597,0,0;                                                 00000599P0000700
110,29.987668161435,7.,4.987668161435,30.987668161435,7.,        00000601P0000701
4.987668161435;                                                  00000601P0000702
110,29.987668161435,7.,5.987668161435,30.987668161435,7.,        00000603P0000703
5.987668161435;                                                  00000603P0000704
118,601,603,0,0;                                                 00000605P0000705
116,23.,7.,5.;                                                   00000607P0000706
110,20.,7.,5.06,26.,7.,5.06;                                     00000609P0000707
110,20.,7.,5.,21.,7.,5.;                                         00000611P0000708
120,611,609,0.,6.28318530718;                                    00000613P0000709
116,11.,7.,5.;                                                   00000615P0000710
110,14.,7.,4.94,8.,7.,4.94;                                      00000617P0000711
110,14.,7.,5.,13.,7.,5.;                                         00000619P0000712
120,619,617,0.,6.28318530718;                                    00000621P0000713
110,15.,1.987668161435,10.012331838565,15.,4.987668161435,       00000623P0000714
7.012331838565;                                                  00000623P0000715
110,19.,1.987668161435,10.012331838565,19.,4.987668161435,       00000625P0000716
7.012331838565;                                                  00000625P0000717
116,17.,3.487668161435,8.512331838565;                           00000627P0000718
118,623,625,0,0;                                                 00000629P0000719
116,16.487668161435,5.,2.487668161435;                           00000631P0000720
110,14.987668161435,5.,1.987668161435,17.987668161435,5.,        00000633P0000721
1.987668161435;                                                  00000633P0000722
110,14.987668161435,5.,2.987668161435,17.987668161435,5.,        00000635P0000723
2.987668161435;                                                  00000635P0000724
118,633,635,0,0;                                                 00000637P0000725
110,14.987668161435,5.,1.987668161435,17.987668161435,5.,        00000639P0000726
1.987668161435;                                                  00000639P0000727
110,14.987668161435,5.,2.987668161435,17.987668161435,5.,        00000641P0000728
2.987668161435;                                                  00000641P0000729
118,639,641,0,0;                                                 00000643P0000730
116,18.487668161435,5.,2.487668161435;                           00000645P0000731
110,17.987668161435,5.,1.987668161435,18.987668161435,5.,        00000647P0000732
1.987668161435;                                                  00000647P0000733
110,17.987668161435,5.,2.987668161435,18.987668161435,5.,        00000649P0000734
2.987668161435;                                                  00000649P0000735
118,647,649,0,0;                                                 00000651P0000736
110,17.987668161435,5.,1.987668161435,18.987668161435,5.,        00000653P0000737
1.987668161435;                                                  00000653P0000738
110,17.987668161435,5.,2.987668161435,18.987668161435,5.,        00000655P0000739
2.987668161435;                                                  00000655P0000740
118,653,655,0,0;                                                 00000657P0000741
116,15.487668161435,9.,2.487668161435;                           00000659P0000742
110,14.987668161435,9.,1.987668161435,15.987668161435,9.,        00000661P0000743
1.987668161435;                                                  00000661P0000744
110,14.987668161435,9.,2.987668161435,15.987668161435,9.,        00000663P0000745
2.987668161435;                                                  00000663P0000746
118,661,663,0,0;                                                 00000665P0000747
110,14.987668161435,9.,1.987668161435,15.987668161435,9.,        00000667P0000748
1.987668161435;                                                  00000667P0000749
110,14.987668161435,9.,2.987668161435,15.987668161435,9.,        00000669P0000750
2.987668161435;                                                  00000669P0000751
118,667,669,0,0;                                                 00000671P0000752
116,17.487668161435,9.,2.487668161435;                           00000673P0000753
110,15.987668161435,9.,1.987668161435,18.987668161435,9.,        00000675P0000754
1.987668161435;                                                  00000675P0000755
```

FLTSATCOM IGES File Description. FLTSATCOM.TAP

```
110,15.987668161435,9.,2.987668161435,18.987668161435,9.,        00000677P0000756
2.987668161435;                                                  00000677P0000757
118,675,677,0,0;                                                 00000679P0000758
110,15.987668161435,9.,1.987668161435,18.987668161435,9.,        00000681P0000759
1.987668161435;                                                  00000681P0000760
110,15.987668161435,9.,2.987668161435,18.987668161435,9.,        00000683P0000761
2.987668161435;                                                  00000683P0000762
118,681,683,0,0;                                                 00000685P0000763
116,15.,5.487668161435,2.487668161435;                           00000687P0000764
110,15.,4.987668161435,1.987668161435,15.,4.987668161435,        00000689P0000765
2.987668161435;                                                  00000689P0000766
110,15.,5.987668161435,1.987668161435,15.,5.987668161435,        00000691P0000767
2.987668161435;                                                  00000691P0000768
118,689,691,0,0;                                                 00000693P0000769
110,15.,4.987668161435,1.987668161435,15.,4.987668161435,        00000695P0000770
2.987668161435;                                                  00000695P0000771
110,15.,5.987668161435,1.987668161435,15.,5.987668161435,        00000697P0000772
2.987668161435;                                                  00000697P0000773
118,695,697,0,0;                                                 00000699P0000774
116,15.,7.487668161435,2.487668161435;                           00000701P0000775
110,15.,5.987668161435,1.987668161435,15.,5.987668161435,        00000703P0000776
2.987668161435;                                                  00000703P0000777
110,15.,8.987668161435,1.987668161435,15.,8.987668161435,        00000705P0000778
2.987668161435;                                                  00000705P0000779
118,703,705,0,0;                                                 00000707P0000780
110,15.,5.987668161435,1.987668161435,15.,5.987668161435,        00000709P0000781
2.987668161435;                                                  00000709P0000782
110,15.,8.987668161435,1.987668161435,15.,8.987668161435,        00000711P0000783
2.987668161435;                                                  00000711P0000784
118,709,711,0,0;                                                 00000713P0000785
S0000001G0000002D0000714P0000785                                         T0000001
\032
\032
```

FLTSATCOM Object Building Block File: FLTSATCOM.OBB

```
[illegible]  0 0 0
CONDUCTOR          1
OCTAGON
axis          7          3          17          7          7          17
width          6
side          2
surface + MA01
surface - MA08
surface c MA07
endobj
CONDUCTOR          1
PATCHR
corner          4          3          17
deltas          1          1           1
surface -x MA04
endobj
CONDUCTOR          1
PATCHR
corner          9          3          17
deltas          1          1           1
surface +x MA04
endobj
CONDUCTOR          1
PATCHR
corner          9          5          16
deltas          1          1           1
surface +x MA04
endobj
CONDUCTOR          1
PATCHR
corner          6          6          14
deltas          1          1           1
surface -z MA04
endobj
CONDUCTOR          1
PATCHR
corner          7          6          14
deltas          1          1           1
surface -z MA04
endobj
CONDUCTOR          1
PATCHR
corner          7          5          14
deltas          1          1           1
surface -z MA04
endobj
CONDUCTOR          1
PATCHR
corner          6          4          14
deltas          1          1           1
surface -z MA04
endobj
CONDUCTOR          1
PATCHR
corner          7          3          14
deltas          1          1           1
surface -z MA04
endobj
CONDUCTOR          1
PATCHR
corner          6          3          19
deltas          1          1           1
surface +z MA04
endobj
```

FLTSATCOM Object Building Block File: FLTSATCOM.OBB

```
CONDUCTOR              1
PATCHR
corner                 7              4              19
deltas                 1              1               1
surface +z MA04
endobj
CONDUCTOR              1
PATCHR
corner                 6              5              19
deltas                 1              1               1
surface +z MA04
endobj
CONDUCTOR              1
PATCHR
corner                 6              6              19
deltas                 1              1               1
surface +z MA04
endobj
CONDUCTOR              1
PATCHR
corner                 7              6              19
deltas                 1              1               1
surface +z MA04
endobj
CONDUCTOR              1
PATCHW
corner                 6              3              15
face     MA04 -1   0 -1
length                 1              1               1
endobj
CONDUCTOR              1
PATCHW
corner                 5              4              16
face     MA04 -1   0 -1
length                 1              1               1
endobj
CONDUCTOR              1
PATCHW
corner                 5              6              16
face     MA04 -1   0 -1
length                 1              1               1
endobj
CONDUCTOR              1
PATCHW
corner                 5              4              18
face     MA04 -1   0  1
length                 1              1               1
endobj
CONDUCTOR              1
PATCHW
corner                 5              6              18
face     MA04 -1   0  1
length                 1              1               1
endobj
CONDUCTOR              1
PATCHW
corner                 6              5              19
face     MA04 -1   0  1
length                 1              1               1
endobj
CONDUCTOR              1
PATCHW
corner                 9              4              18
face     MA04  1   0  1
```

```
[illegible]                1          1          1
[illegible]
[illegible]                1
[illegible]
[illegible]                9          6         18
[illegible]    MA[illegible]  1  0  1
[illegible]                1          1          1
[illegible]
[illegible]                1
[illegible]
[illegible]                9          4         16
[illegible]    MA04  1  0 -1
[illegible]                1          1          1
[illegible]
[illegible]                1
[illegible]
[illegible]                9          6         16
[illegible]    MA04  1  0 -1
[illegible]                1          1          1
[illegible]
[illegible]TOR             1
[illegible]
[illegible]                5          2         19
[illegible]ltas            3          1          0
[illegible]ttom -z MA10
[illegible]p +z    MA07
endobj
CONDUCTOR                  1
PLATE
corner                     8          2         19
[illegible]ltas            1          1          0
[illegible]ttom -z MA10
[illegible]p +z    MA10
endobj
[illegible]TOR             1
[illegible]N
[illegible]            7          6         17          7          7         17
[illegible]                4
side                       2
[illegible]rface + MA03
[illegible]bj
[illegible]CTOR            1
[illegible]
[illegible]                8          6         18
[illegible]    MA08 -1  0 -1
[illegible]                1          1          1
[illegible] +z MA09
[illegible]
[illegible]                1
[illegible]
[illegible]                9         10         15
[illegible]                1         -1          0
[illegible]                3          3          4
[illegible]
[illegible]TOR             1
[illegible]LANT
[illegible]ner             5          7         12
[illegible]MA06            0          1          1
[illegible]                4          3          3
[illegible]bj
[illegible]DUCTOR          1
ASLANT
corner                     5          7         22
face MA06                  0          1         -1
```

```
length              4           3           3
endobj
CONDUCTOR             1
ATET
corner                5          10          15
face     MA06 -1 -1 -1
length                3
endobj
CONDUCTOR             1
ATET
corner                5          10          19
face     MA06 -1 -1  1
length                3
endobj
CONDUCTOR             1
ATET
corner                9          10          19
face     MA06  1 -1  1
length                3
endobj
CONDUCTOR             1
ATET
corner                9          10          15
face     MA06  1 -1 -1
length                3
endobj
CONDUCTOR             1
BOOM
axis              7           7          17           7           9          17
adius    0.2180
surface MA03
endobj
CONDUCTOR             1
BOOM
axis              7           9          17           7          13          17
adius    0.8300E-01
surface MA10
endobj
CONDUCTOR             1
BOOM
axis              7          13          17           7          14          17
adius    0.4160E-01
surface MA03
endobj
CONDUCTOR             1
PATCHR
corner                7           3          17
deltas                1           1           1
surface -y MA11
endobj
CONDUCTOR             1
BOOM
axis             15          10          18          15          13          18
adius    0.1670
surface MA03
endobj
CONDUCTOR             1
BOOM
axis             15          13          18          15          14          18
adius    0.1670
surface MA10
endobj
CONDUCTOR             1
BOOM
```

FLTSATCOM Object Building Block File: FLTSATCOM.OBB

```
axis            15          14          18          15          17          18
adius   0.1670
surface MA03
endobj
CONDUCTOR           1
BOOM
axis            10           7          17          15           7          17
adius   0.3330
surface MA02
endobj
CONDUCTOR           1
BOOM
axis            15           7          17          15           9          17
adius   0.3330
surface MA02
endobj
CONDUCTOR           1
WEDGE
corner           15           9          18
face    MA10 -1  0  1
length            1           1           1
surface -z MA10
surface +x MA10
surface -y MA10
surface +y MA10
endobj
CONDUCTOR           1
WEDGE
corner           15           9          18
face    MA10  1  0  1
length            1           1           1
surface -z MA10
surface -x MA10
surface -y MA10
surface +y MA10
endobj
CONDUCTOR           1
WEDGE
corner           15           9          18
face    MA10  1  0 -1
length            1           1           1
surface +z MA10
surface -x MA10
surface -y MA10
surface +y MA10
endobj
CONDUCTOR           1
WEDGE
corner           15           9          18
face    MA10 -1  0 -1
length            1           1           1
surface +z MA10
surface +x MA10
surface -y MA10
surface +y MA10
endobj
CONDUCTOR           1
PLATE
corner            7           1          26
deltas            0           8           6
bottom -x MA04
top +x    MA05
endobj
CONDUCTOR           1
```

FLTSATCOM Object Building Block File: FLTSATCOM.OBB

```
PLATE
corner              7            1            2
deltas              0            8            6
bottom -x MA04
top +x    MA05
endobj
CONDUCTOR           1
PLATE
corner              7            5            3
deltas              0            1            1
bottom -x MA07
top +x    MA05
endobj
CONDUCTOR           1
PLATE
corner              7            5           30
deltas              0            1            1
bottom -x MA07
top +x    MA05
endobj
CONDUCTOR           1
BOOM
axis            7           5           20           7           5           26
adius   0.6000E-01
surface MA02
endobj
CONDUCTOR           1
BOOM
axis            7           5           14           7           5           8
adius   0.6000E-01
surface MA02
endobj
CONDUCTOR           1
ASLANT
corner              2            7           15
face MA06           1            1            0
length              3            3            4
endobj
CONDUCTOR           1
PLATE
corner              5            2           15
deltas              0            1            3
bottom -x MA10
top +x    MA07
endobj
CONDUCTOR           1
PLATE
corner              5            2           19
deltas              0            1            1
bottom -x MA10
top +x    MA10
endobj
CONDUCTOR           1
PLATE
corner              9            2           15
deltas              0            1            1
bottom +x MA10
top -x    MA10
endobj
CONDUCTOR           1
PLATE
corner              9            2           16
deltas              0            1            3
bottom +x MA10
```

FLTSATCOM Object Building Block File: FLTSATCOM.OBB

```
top -x     MA07
endobj
CONDUCTOR              1
PLATE
corner                 5              2              15
deltas                 1              1               0
bottom -z MA10
top +z     MA10
endobj
CONDUCTOR              1
PLATE
corner                 6              2              15
deltas                 3              1               0
bottom -z MA10
top +z     MA07
endobj
ENDSAT
```

FLTSATCOM NASCAP Object Definition File: FLTSATCOM.ODF

```
COMMENT  This is an Object Definition File
COMMENT  Problem is FLTSATCOM
COMMENT TAP file prefix was FLTSATCOM
COMMENT  More problem oriented information can be
COMMENT     found in: FLTSATCOM.PRB
COMMENT KAP2TN
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT RED      KAP2 03/10/87
COMMENT  FLTSATCOM material for MA01
KAP2
0.350E+01,0.127E-04,0.100E-15,0.500E+01,0.210E+01,0.150E+00,0.715E+02,0.600E+00,
0.312E+03,0.177E+01,0.455E+00,0.140E+03,0.200E-04,0.790E+21,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT LFALUM
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT GREEN    LFAL 03/10/87
COMMENT  FLTSATCOM material for MA02
LFAL
0.350E+01,0.254E-04,0.123E-07,0.500E+01,0.210E+01,0.150E+00,0.715E+02,0.600E+00,
0.312E+03,0.177E+01,0.455E+00,0.140E+03,0.200E-04,0.320E+13,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT S13GLO
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT YELLOW   S13G 03/10/87
COMMENT  FLTSATCOM material for MA03
S13G
0.350E+01,0.102E-03,0.650E-09,0.500E+01,0.210E+01,0.150E+00,-.100E+01,0.000E+00,
0.105E+01,0.980E+01,0.455E+00,0.140E+03,0.200E-04,0.150E+14,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT FSLICA
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT BLUE     FSLI 03/10/87
COMMENT  FLTSATCOM material for MA04
FSLI
0.400E+01,0.152E-03,0.100E-13,0.100E+02,0.240E+01,0.400E+00,0.116E+03,0.810E+00,
0.183E+03,0.186E+01,0.455E+00,0.140E+03,0.200E-04,0.658E+18,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT BLKVEL
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT MAGENTA  BLKV 03/10/87
COMMENT  FLTSATCOM material for MA05
BLKV
0.350E+01,0.508E-04,0.140E-07,0.500E+01,0.210E+01,0.150E+00,0.715E+02,0.600E+00,
0.312E+03,0.177E+01,0.455E+00,0.140E+03,0.200E-04,0.140E+13,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT SSMESH
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT CYAN     SSME 03/10/87
COMMENT  FLTSATCOM material for MA06
SSME
0.100E+01,0.100E-02,-.100E+01,0.470E+02,0.100E+01,0.800E+00,0.845E+02,0.820E+00,
0.794E+02,0.174E+01,0.490E+00,0.123E+03,0.290E-04,-.100E+01,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT KAP1TN
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT WHITE    KAP1 03/10/87
COMMENT  FLTSATCOM material for MA07
KAP1
0.350E+01,0.508E-04,0.100E-15,0.500E+01,0.210E+01,0.150E+00,0.715E+02,0.600E+00,
0.312E+03,0.177E+01,0.455E+00,0.140E+03,0.200E-04,0.200E+21,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT KAP3TN
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT WHITE    KAP3 03/10/87
```

FLTSATCOM NASCAP Object Definition File: FLTSATCOM.ODF

```
COMMENT  FLTSATCOM material for MA08
KAP3
0.350E+01,0.127E-03,0.100E-15,0.500E+01,0.210E+01,0.150E+00,0.715E+02,0.600E+00,
0.312E+03,0.177E+01,0.455E+00,0.140E+03,0.200E-04,0.790E+20,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT EHFPRT
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT WHITE    EHFP 03/10/87
COMMENT  FLTSATCOM material for MA09
EHFP
0.100E+01,0.100E-02,-.100E+01,0.244E+02,0.140E+01,0.800E+00,-.100E+01,0.000E+00,
0.718E+01,0.555E+02,0.490E+00,0.123E+03,0.320E-04,-.100E+01,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT ALUM
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT WHITE    ALUM 03/10/87
COMMENT  FLTSATCOM material for MA10
ALUM
0.100E+01,0.100E-02,-.100E+01,0.130E+02,0.970E+00,0.300E+00,0.154E+03,0.800E+00,
0.220E+03,0.176E+01,0.244E+00,0.230E+03,0.400E-04,-.100E+01,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
COMMENT CPHENL
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
COMMENT WHITE    CPHE 03/10/87
COMMENT  FLTSATCOM material for MA11
CPHE
0.350E+01,0.508E-02,0.100E-09,0.700E+01,0.300E+01,0.300E+00,0.454E+02,0.400E+00,
0.218E+03,0.177E+01,0.455E+00,0.140E+03,0.200E-04,0.100E+11,.1000E+05,.2000E+04,
 0.100000E-12, 0.100000E+01, 0.100000E+04, 0.200000E+02,
 OFFSET   0 0 0
 CONDUCTOR            1
 OCTAGON
 axis            7            3           17            7            7           17
 width             6
 side              2
 surface + KAP2
 surface - KAP3
 surface c KAP1
 endobj
 CONDUCTOR            1
 PATCHR
 corner             4            3           17
 deltas             1            1            1
 surface -x FSLI
 endobj
 CONDUCTOR            1
 PATCHR
 corner             9            3           17
 deltas             1            1            1
 surface +x FSLI
 endobj
 CONDUCTOR            1
 PATCHR
 corner             9            5           16
 deltas             1            1            1
 surface +x FSLI
 endobj
 CONDUCTOR            1
 PATCHR
 corner             6            6           14
 deltas             1            1            1
 surface -z FSLI
 endobj
 CONDUCTOR            1
```

FLTSATCOM NASCAP Object Definition File: FLTSATCOM.ODF

```
PATCHR
corner              7           6          14
deltas              1           1           1
surface -z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              7           5          14
deltas              1           1           1
surface -z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              6           4          14
deltas              1           1           1
surface -z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              7           3          14
deltas              1           1           1
surface -z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              6           3          19
deltas              1           1           1
surface +z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              7           4          19
deltas              1           1           1
surface +z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              6           5          19
deltas              1           1           1
surface +z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              6           6          19
deltas              1           1           1
surface +z FSLI
endobj
CONDUCTOR             1
PATCHR
corner              7           6          19
deltas              1           1           1
surface +z FSLI
endobj
CONDUCTOR             1
PATCHW
corner              6           3          15
face    FSLI -1   0 -1
length              1           1           1
endobj
CONDUCTOR             1
PATCHW
corner              5           4          16
face    FSLI -1   0 -1
length              1           1           1
```

```
endobj
CONDUCTOR              1
PATCHW
corner                 5              6             16
face     FSLI -1   0 -1
length                 1              1              1
endobj
CONDUCTOR              1
PATCHW
corner                 5              4             18
face     FSLI -1   0  1
length                 1              1              1
endobj
CONDUCTOR              1
PATCHW
corner                 5              6             18
face     FSLI -1   0  1
length                 1              1              1
endobj
CONDUCTOR              1
PATCHW
corner                 6              5             19
face     FSLI -1   0  1
length                 1              1              1
endobj
CONDUCTOR              1
PATCHW
corner                 9              4             18
face     FSLI  1   0  1
length                 1              1              1
endobj
CONDUCTOR              1
PATCHW
corner                 9              6             18
face     FSLI  1   0  1
length                 1              1              1
endobj
CONDUCTOR              1
PATCHW
corner                 9              4             16
face     FSLI  1   0 -1
length                 1              1              1
endobj
CONDUCTOR              1
PATCHW
corner                 9              6             16
face     FSLI  1   0 -1
length                 1              1              1
endobj
CONDUCTOR              1
PLATE
corner                 5              2             19
deltas                 3              1              0
bottom -z ALUM
top +z    KAP1
endobj
CONDUCTOR              1
PLATE
corner                 8              2             19
deltas                 1              1              0
bottom -z ALUM
top +z    ALUM
endobj
CONDUCTOR              1
```

FLTSATCOM NASCAP Object Definition File: FLTSATCOM.ODF

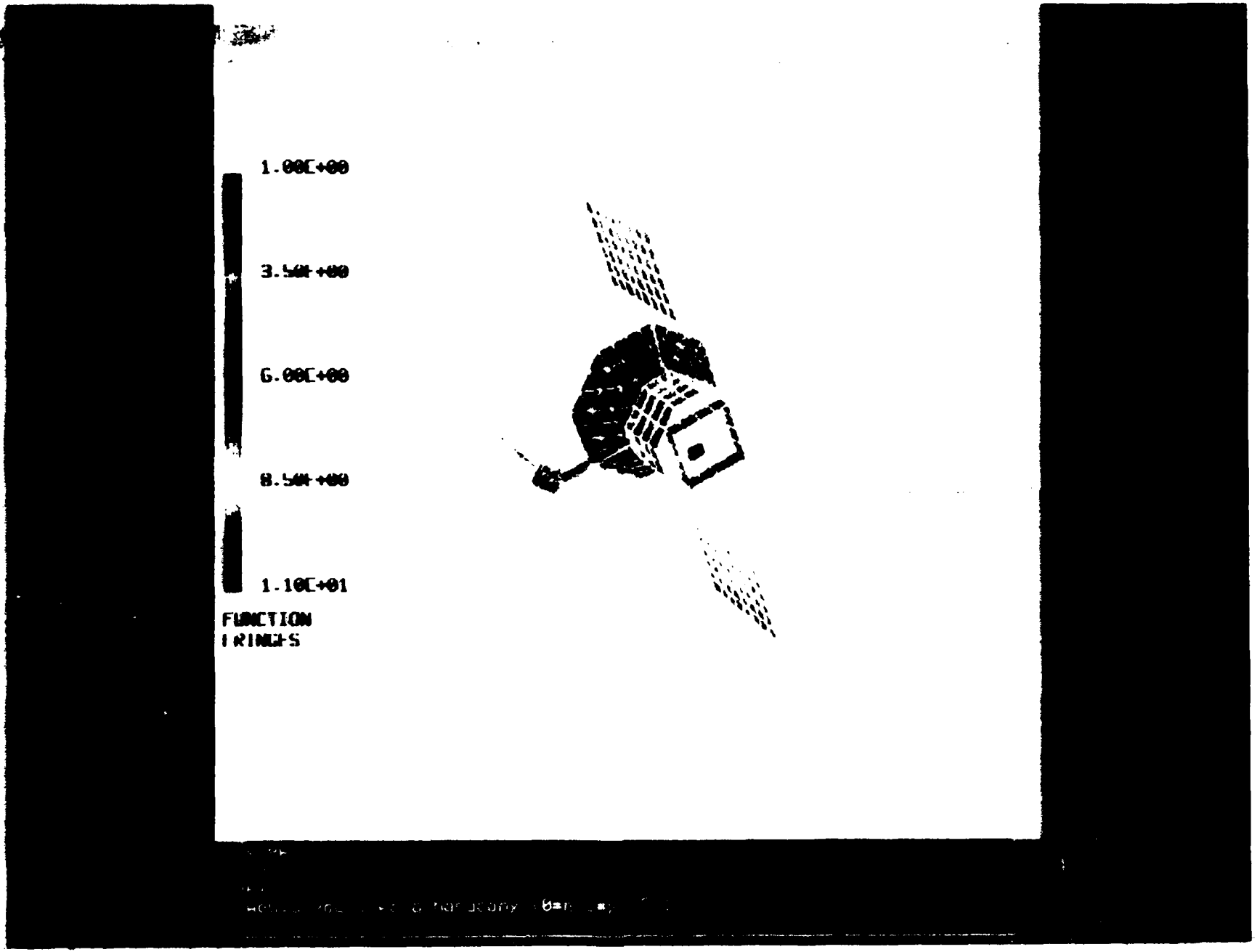
```
OCTAGON
axis            7           6          17           7           7          17
width             4
side              2
surface + S13G
endobj
CONDUCTOR             1
WEDGE
corner              8           6          18
face    KAP3 -1  0 -1
length              1           1           1
surface +z EHFP
endobj
CONDUCTOR             1
ASLANT
corner              9          10          15
face SSME             1          -1           0
length              3           3           4
endobj
CONDUCTOR             1
ASLANT
corner              5           7          12
face SSME             0           1           1
length              4           3           3
endobj
CONDUCTOR             1
ASLANT
corner              5           7          22
face SSME             0           1          -1
length              4           3           3
endobj
CONDUCTOR             1
ATET
corner              5          10          15
face    SSME -1 -1 -1
length              3
endobj
CONDUCTOR             1
ATET
corner              5          10          19
face    SSME -1 -1  1
length              3
endobj
CONDUCTOR             1
ATET
corner              9          10          19
face    SSME  1 -1  1
length              3
endobj
CONDUCTOR             1
ATET
corner              9          10          15
face    SSME  1 -1 -1
length              3
endobj
CONDUCTOR             1
BOOM
axis            7           7          17           7           9          17
radius   0.2180
surface S13G
endobj
CONDUCTOR             1
BOOM
axis            7           9          17           7          13          17
```

```
radius   0.8300E-01
 surface ALUM
 endobj
 CONDUCTOR            1
 BOOM
 axis            7          13          17           7          14          17
radius   0.4160E-01
 surface S13G
 endobj
 CONDUCTOR            1
 PATCHR
 corner          7          3          17
 deltas          1          1           1
 surface -y CPHE
 endobj
 CONDUCTOR            1
 BOOM
 axis           15          10          18          15          13          18
radius   0.1670
 surface S13G
 endobj
 CONDUCTOR            1
 BOOM
 axis           15          13          18          15          14          18
radius   0.1670
 surface ALUM
 endobj
 CONDUCTOR            1
 BOOM
 axis           15          14          18          15          17          18
radius   0.1670
 surface S13G
 endobj
 CONDUCTOR            1
 BOOM
 axis           10           7          17          15           7          17
radius   0.3330
 surface LFAL
 endobj
 CONDUCTOR            1
 BOOM
 axis           15           7          17          15           9          17
radius   0.3330
 surface LFAL
 endobj
 CONDUCTOR            1
 WEDGE
  rner          15          9          18
 face    ALUM -1  0  1
 length          1          1           1
 surface -z ALUM
 surface -x ALUM
 surface -y ALUM
 surface +y ALUM
 endobj
 CONDUCTOR            1
 WEDGE
 corner          15          9          18
 face    ALUM  1  0  1
 length          1          1           1
 surface -z ALUM
 surface -x ALUM
 surface -y ALUM
 surface +y ALUM
```

```
 endobj
 CONDUCTOR            1
 WEDGE
 corner              15            9           18
 face    ALUM  1   0 -1
 length               1            1            1
 surface +z ALUM
 surface -x ALUM
 surface -y ALUM
 surface +y ALUM
 endobj
 CONDUCTOR            1
 WEDGE
 corner              15            9           18
 face    ALUM -1   0 -1
 length               1            1            1
 surface +z ALUM
 surface +x ALUM
 surface -y ALUM
 surface +y ALUM
 endobj
 CONDUCTOR            1
 PLATE
 corner               7            1           26
 deltas               0            8            6
 bottom -x FSLI
 top +x    BLKV
 endobj
 CONDUCTOR            1
 PLATE
 corner               7            1            2
 deltas               0            8            6
 bottom -x FSLI
 top +x    BLKV
 endobj
 CONDUCTOR            1
 PLATE
 corner               7            5            3
 deltas               0            1            1
 bottom -x KAP1
 top +x    BLKV
 endobj
 CONDUCTOR            1
 PLATE
 corner               7            5           30
 deltas               0            1            1
 bottom -x KAP1
 top +x    BLKV
 endobj
 CONDUCTOR            1
 BOOM
 axis            7            5           20           7            5           26
radius   0.6000E-01
 surface LFAL
 endobj
 CONDUCTOR            1
 BOOM
 axis            7            5           14           7            5            8
radius   0.6000E-01
 surface LFAL
 endobj
 CONDUCTOR            1
 ASLANT
 corner          2            7           15
```

FLTSATCOM NASCAP Object Definition File: FLTSATCOM.ODF

```
face SSME              1            1            0
length              3            3            4
endobj
CONDUCTOR              1
PLATE
corner              5            2           15
deltas              0            1            3
bottom -x ALUM
top +x    KAP1
endobj
CONDUCTOR              1
PLATE
corner              5            2           18
deltas              0            1            1
bottom -x ALUM
top +x    ALUM
endobj
CONDUCTOR              1
PLATE
corner              9            2           15
deltas              0            1            1
bottom +x ALUM
top -x    ALUM
endobj
CONDUCTOR              1
PLATE
corner              9            2           16
deltas              0            1            3
bottom +x ALUM
top -x    KAP1
endobj
CONDUCTOR              1
PLATE
corner              5            2           15
deltas              1            1            0
bottom -z ALUM
top +z    ALUM
endobj
CONDUCTOR              1
PLATE
corner              6            2           15
deltas              3            1            0
bottom -z ALUM
top +z    KAP1
endobj
ENDSAT
```


1.00E+00
3.50E+00
6.00E+00
8.50E+00
1.10E+01
FUNCTION
PRIMES

FLTSATCOM NASCAP Run Deck

```
rdopt 5
        nz 33
        ng 2
        ncyc 3
        sundir 1 .1 -.2
        sunint 1.
        longtimestep
        delta 60.
        Timer
        end
objdef 20
Hidcel
Capaci
Trilin
end
```

[illegible] Default Environment File: [illegible].DAT

```
MAXWELL
 1.0000E+06 MKS
 0.0000E+00 MKS
 1.5000E+04 EV
 0.0000E+00 EV
END
```

FLTSATCOM NASCAP Results

```
******:dopt 26
```

```
                KEYWORD INPUT
nz 33
nq 2
ncyc 3
sundir 1 .1 -.2
sunint 1.
longtimestep
delta 60.
Timer
end
 CLOSE CALLED FOR LUN=          26
 Openms called for lun           21
 Calling asgfil for Non-Readms version
FILE OPENED FOR DIRECT ACCESS.  FILE: 21
FILE OPENED FOR DIRECT ACCESS.  FILE: 10
SCRATCH DIRECT ACCESS FILE OPENED FOR UNIT: 11
SCRATCH DIRECT ACCESS FILE OPENED FOR UNIT: 12
SCRATCH DIRECT ACCESS FILE OPENED FOR UNIT: 25
SCRATCH DIRECT ACCESS FILE OPENED FOR UNIT: 13
SCRATCH DIRECT ACCESS FILE OPENED FOR UNIT: 14
FILE OPENED FOR DIRECT ACCESS.  FILE: 15
FILE OPENED FOR DIRECT ACCESS.  FILE: 19
SCRATCH DIRECT ACCESS FILE OPENED FOR UNIT: 18
FILE OPENED FOR DIRECT ACCESS.  FILE: 17
FILE OPENED FOR DIRECT ACCESS.  FILE: 16
FILE OPENED FOR DIRECT ACCESS.  FILE: 21
SCRATCH DIRECT ACCESS FILE OPENED FOR UNIT: 28
FILE OPENED FOR DIRECT ACCESS.  FILE: 27
```

FLTSATCOM NASCAP Results

```
                                    NASA CHARGING ANALYZER PROGRAM
                                         OPTION SUMMARY

TITLE -NASCAP                                    \000\000\000\000\000\000\000\000\000\000\000\000\000\000\000\000\

GRID SIZE OPTIONS:   NX   NY   NZ   NG
                     17   17   33    2
          FULL OUTER GRID USED
          ADDITIONAL OPTION WORDS: OFFSET, TANKSIZE, ZTRUNC, TANK RADIUS, TANK AXIS

LOGICAL UNIT NUMBERS

          INPUT FILES: IREYWD   ISAT    IFLUX   ISPCTR
                         26     20      22       9

          RESTART FILES: IP   IROUS  IPQCND  ILTBL  ICHOW  IAREA
                         10    15     16     17     21     27

          SCRATCH FILES: IAUW   IR   IDIV   IU   ISPARE   IOBJ  IOBPLT  IPART
                         11    12    25     13     14     18     19     28

RUN MODE OPTIONS: ICREST  IPREST  NCYC  MCYC
                    0       0     3     1

                   DELTA     DELFAC
                 6.00E+01  1.00E+00
          DEADLINE - NONE
          ADDITIONAL KEYWORD - (RESTART)

POTENTIAL SOLVER OPTIONS: POTCON    MAXITR   IOUTER   SCALE
                          NOTSET      99       2      SCAL
                    SCALING KEYWORDS: SCALE, NOSCALE, DSCALE
          AMBIENT SPACE CHARGE OPTION (KEYWORD DEBYE)-NONE

CONDUCTOR FIXING AND BIASING:KEYWORDS FIXP, BIAS, FLOAT

INTERCONDUCTOR CAPACITANCES:  KEYWORD CIJ
          THE CODE UNIT OF CHARGE IS   8.854E-13 COULOMBS.
          THE CODE UNIT OF CAPACITANCE IS   8.85E-13 FARADS.
          NO INTERCONDUCTOR CAPACITANCES SPECIFIED.

INTERCONDUCTOR RESISTIVITIES:  KEYWORD RIJ
NEW VALUES ARE IMPLEMENTED BY CALL TO OBJDEF OR NEWMAT.
          NO INTERCONDUCTOR RESISTIVITIES SPECIFIED.

LONGTIMESTEP AND DISCHARGE OPTIONS
          KEYWORDS: LONGTIMESTEP, NOLONGTIMESTEP, DISCHARGE, FLASHOVER
          LONGTIMESTEP REQUESTED WITH DVLIM=  1000.0 VOLTS.
          DISCHARGE ANALYSIS OFF

ILLUMINATION SPECIFICATIONS:
         SUNINT= 1.000     SUNDIR =  0.9759  0.0976 -0.1952
         SHADOWING FORMULATION (KEYWORD=CONVEX)-SHAD

ENVIRONMENT TYPE AND MESH SIZE
         ITYPE=   2     UPDATE-OFF      XMESH=  1.00E-01

          SECONDARY EMISSION FORMULATION -'ANG1'
          EFFECTIVE PHOTOSHEATH CONDUCTIVITY (EFFCON) - OFF
          FIELD-ENHANCED BULK CONDUCTIVITY (FLDCON) - OFF
          RADIATION-INDUCED BULK CONDUCTIVITY (RADCON) - OFF

OUTPUT OPTIONS:
                    NGPRT (APRT)    TIMER (NOTIMER)
                        0              YES
                    ICNVP (CONVERGENCE PLOTS)= 0
          PRINT (NOPRINT):  POTENT    LIMCEL    OBJDEF    HIDCEL
                             NO         NO        SOME      NO

    1 SURFACE CELLS SPECIFIED FOR I/O:
                    1
          KEYWORDS: (SURFACE CELL), (SURFACE AT), (SURFACE CORNER)

PLOT OPTIONS:  TITLE-NASCAP                                  \000\000\000\000\000\000\000\000\000\000
          NGPLOT     ICON      REPEAT     ITPART     ITCUR      IROUSP
            0         0         1          0          0          0
          DEST = NONE
          NCON       NDIR
           0          3
          ADDITIONAL KEYWORDS: TANKCUR TANKTRAJ 3D-VIEW MATVIEW CONTOUR

     NO. OF ADDITIONAL CONTOUR PLOT CUTS =      0

     NO. OF 3-D PLOT VIEWS =      3

     VECTORS FROM SATELLITE CENTER TOWARD VIEWER ARE
                                                    0.5000    0.8000    0.5000
                                                   -0.5000    0.8000    0.5000
                                                    0.2000   -0.5000    0.5000

       6 MATERIAL PLOT VIEWS REQUESTED:
                 VIEW FROM +X DIRECTION BETWEEN   -8 AND    8
                 VIEW FROM -X DIRECTION BETWEEN   -8 AND    8
                 VIEW FROM +Y DIRECTION BETWEEN   -8 AND    8
                 VIEW FROM -Y DIRECTION BETWEEN   -8 AND    8
                 VIEW FROM +Z DIRECTION BETWEEN  -16 AND   16
                 VIEW FROM -Z DIRECTION BETWEEN  -16 AND   16

PARTICLE TRACKING OPTIONS:
          KEYWORDS: EMITTER, NOEMITTER, SHEATH, SHEATH SELF-CONSISTENT

           NO EMITTERS REQUESTED

MAGNETIC FIELD OPTIONS: KEYWORDS (BFIELD), (DIPOLE)
          CONSTANT MAGNETIC FIELD -(  0.00E+00  0.00E+00  0.00E+00) W/M**2.
          NO MAGNETIC DIPOLES
 ELAPSED:     0 00:00:12.89  CPU: 0:00:05.94  BUFIO: 28  DIRIO: 92  FAULTS: 433


******objdef 20
 ELAPSED:     0 00:00:12.97  CPU:  0:00:06.02  BUFIO: 28  DIRIO: 92  FAULTS: 445
In nascap, isat =          20  lun=          20
```

FLTSATCOM NASCAP Results

```
COMMENT  This is an Object Definition File

COMMENT  Problem is FLTSATCOM

COMMENT TAP file prefix was FLTSATCOM

COMMENT  More problem oriented information can be

COMMENT      found in: FLTSATCOM.PRB
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT      found in: FLTSATCOM.PRB

COMMENT KAP2TN

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT RED      KAP2 03/10/87

COMMENT  FLTSATCOM material for MA01

KAP2                MATERIAL PROPERTIES
          3.50E+00   1.27E-05   1.00E-16   5.00E+00   2.10E+00   1.50E-01   7.15E+01   6.00E-01   3.12
          4.55E-01   1.40E+02   2.00E-05   7.90E+20   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT LFALUM

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT GREEN    LFAL 03/10/87

COMMENT  FLTSATCOM material for MA02

LFAL                MATERIAL PROPERTIES
          3.50E+00   2.54E-05   1.23E-08   5.00E+00   2.10E+00   1.50E-01   7.15E+01   6.00E-01   3.12
          4.55E-01   1.40E+02   2.00E-05   3.20E+12   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT S13GLO

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT YELLOW   S13G 03/10/87

COMMENT  FLTSATCOM material for MA03

S13G                MATERIAL PROPERTIES
          3.50E+00   1.02E-04   6.50E-10   5.00E+00   2.10E+00   1.50E-01  -1.00E+00   0.00E+00   1.05
          4.55E-01   1.40E+02   2.00E-05   1.50E+13   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT FSLICA

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT BLUE     FSLI 03/10/87

COMMENT  FLTSATCOM material for MA04

FSLI                MATERIAL PROPERTIES
          4.00E+00   1.52E-04   1.00E-14   1.00E+01   2.40E+00   4.00E-01   1.16E+02   8.10E-01   1.83
          4.55E-01   1.40E+02   2.00E-05   6.58E+17   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT BLKVEL

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT MAGENTA  BLKV 03/10/87

COMMENT  FLTSATCOM material for MA05

BLKV                MATERIAL PROPERTIES
          3.50E+00   5.08E-05   1.40E-08   5.00E+00   2.10E+00   1.50E-01   7.15E+01   6.00E-01   3.12
          4.55E-01   1.40E+02   2.00E-05   1.40E+12   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT SSMESH

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT CYAN     SSME 03/10/87

COMMENT  FLTSATCOM material for MA06

SSME                MATERIAL PROPERTIES
          1.00E+00   1.00E-03  -1.00E+00   4.70E+01   1.00E+00   8.00E-01   8.45E+01   8.20E-01   7.94
          4.90E-01   1.23E+02   2.90E-05  -1.00E+00   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT KAP1TN

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT WHITE    KAP1 03/10/87

COMMENT  FLTSATCOM material for MA07

KAP1                MATERIAL PROPERTIES
          3.50E+00   5.08E-05   1.00E-16   5.00E+00   2.10E+00   1.50E-01   7.15E+01   6.00E-01   3.12
          4.55E-01   1.40E+02   2.00E-05   2.00E+20   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT KAP3TN

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT WHITE    KAP3 03/10/87

COMMENT  FLTSATCOM material for MA08

KAP3                MATERIAL PROPERTIES
          3.50E+00   1.27E-04   1.00E-16   5.00E+00   2.10E+00   1.50E-01   7.15E+01   6.00E-01   3.12
          4.55E-01   1.40E+02   2.00E-05   7.90E+19   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT EHFPRT

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT WHITE    EHFP 03/10/87

COMMENT  FLTSATCOM material for MA09

EHFP                MATERIAL PROPERTIES
          1.00E+00   1.00E-03  -1.00E+00   2.44E+01   1.40E+00   8.00E-01  -1.00E+00   0.00E+00   7.18
          4.90E-01   1.23E+02   3.20E-05  -1.00E+00   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT ALUM

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***FBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT WHITE    ALUM 03/10/87

COMMENT  FLTSATCOM material for MA10
```

FLTSATCOM NASCAP Results

```
ALUM                 MATERIAL PROPERTIES
          1.00E+00   1.00E-03  -1.00E+00   1.30E+01   9.70E-01   3.00E-01   1.54E+02   8.00E-01   2.20
          2.44E-01   2.30E+02   4.00E-05  -1.00E+00   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

COMMENT CPHENL

COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]
***PBREAK*** GROUP NO.  4 IN THIS CARD IMAGE - TOO LONG
COMMENT From Dir SYS$SYSDEVICE:[LILLEY.CAETS.PROBLEMS.FLTSATCOM]

COMMENT WHITE    CPHE 03/10/87

COMMENT  FLTSATCOM material for MA11

CPHE                 MATERIAL PROPERTIES
          3.50E+00   5.00E-03   1.00E-10   7.00E+00   3.00E+00   3.00E-01   4.54E+01   4.00E-01   2.10
          4.55E-01   1.40E+02   2.00E-05   1.00E+10   1.00E+04   2.00E+03   1.00E-13   1.00E+00   1.00

 OFFSET   0 0 0

 CONDUCTOR            1

 OCTAGON
 surface + KAP2
 surface - KAP3
 surface c KAP1
 endobj

   OCTAGON DEFINED
        AXIS = (   7   3  17) TO (   7   7  17)
        WIDTH =    6          SIDE =    2

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          4<X<  5
                          3<Y<  4
                         17<Z< 18

 surface -x FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          9<X< 10
                          3<Y<  4
                         17<Z< 18

 surface +x FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          9<X< 10
                          5<Y<  6
                         16<Z< 17

 surface +x FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          6<X<  7
                          6<Y<  7
                         14<Z< 15

 surface -z FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          7<X<  8
                          6<Y<  7
                         14<Z< 15

 surface -z FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          7<X<  8
                          5<Y<  6
                         14<Z< 15

 surface -z FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          6<X<  7
                          4<Y<  5
                         14<Z< 15

 surface -z FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          7<X<  8
                          3<Y<  4
                         14<Z< 15

 surface -z FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          6<X<  7
                          3<Y<  4
                         19<Z< 20

 surface +z FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          7<X<  8
                          4<Y<  5
                         19<Z< 20

 surface +z FSLI
 endobj

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                          6<X<  7
                          5<Y<  6
                         19<Z< 20
```

FLTSATCOM NASCAP Results

```
surface +z FSLI
endobj

CONDUCTOR              1

PATCHR
OBJECT NOW DEFINED.
                                  6<X<  [illegible]
                                  6<Y<  7
                                 19<Z< 20

surface +z FSLI
endobj

CONDUCTOR              1

PATCHR
OBJECT NOW DEFINED.
                                  7<X<  8
                                  6<Y<  7
                                 19<Z< 20

surface +z FSLI
endobj

CONDUCTOR              1

PATCHW

corn        6    3   15

face    FSLI        -1    0   -1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        5    4   16

face    FSLI        -1    0   -1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        5    6   16

face    FSLI        -1    0   -1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        5    4   18

face    FSLI        -1    0    1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        5    6   18

face    FSLI        -1    0    1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        6    5   19

face    FSLI        -1    0    1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        9    4   18

face    FSLI         1    0    1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        9    6   18

face    FSLI         1    0    1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        9    4   16

face    FSLI         1    0   -1
 length              1          1          1
 endobj

CONDUCTOR              1

PATCHW

corn        9    6   16

face    FSLI         1    0   -1
 length              1          1          1
 endobj

CONDUCTOR              1

PLATE
THIN PLATE NOW DEFINED.
                                  5<X<  8
                                  2<Y<  3
                                 19<Z< 19

bottom -z ALUM
top +z    KAP1
endobj

CONDUCTOR              1

PLATE
THIN PLATE NOW DEFINED.
                                  8<X<  9
                                  2<Y<  3
                                 19<Z< 19

bottom -z ALUM
top +z    ALUM
endobj

CONDUCTOR              1
```

FLTSATCOM NRSCAP Results

```
 OCTAGON
 surface + S13G
 endobj

   OCTAGON DEFINED
         AXIS =  (   7    6   17) TO (   7    7   17)
         WIDTH =     4           SIDE =     2

 CONDUCTOR            1

 WEDGE

corn         8    6   18

face     KAP3        -1    0   -1
 length               1           1           1
 surface +z EHFP
 endobj

 CONDUCTOR            1

 ASLANT

corn         9   10   15

face     SSME         1   -1    0
 length              3           3           4
 endobj

 CONDUCTOR            1

 ASLANT

corn         5    7   12

face     SSME         0    1    1
 length              4           3           3
 endobj

 CONDUCTOR            1

 ASLANT

corn         5    7   22

face     SSME         0    1   -1
 length              4           3           3
 endobj

 CONDUCTOR            1

 ATET

corn         5   10   15

face     SSME        -1   -1   -1

leng         3
 endobj

 CONDUCTOR            1

 ATET

corn         5   10   19

face     SSME        -1   -1    1

leng         3
 endobj

 CONDUCTOR            1

 ATET

corn         9   10   19

face     SSME         1   -1    1

leng         3
 endobj

 CONDUCTOR            1

 ATET

corn         9   10   15

face     SSME         1   -1   -1

leng         3
 endobj

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                          7    7   17 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Y AXIS TO    7    9   17 (GRID 1 COORDINATES)

radi       0.21800

surf     S13G

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                          7    9   17 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Y AXIS TO    7   13   17 (GRID 1 COORDINATES)

radi       0.08300

surf     ALUM

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                          7   13   17 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Y AXIS TO    7   14   17 (GRID 1 COORDINATES)

radi       0.04160

surf     S13G

 CONDUCTOR            1

 PATCHR
 OBJECT NOW DEFINED.
                              7<X<  8
                              3<Y<  4
                             17<Z< 18

 surface -y CPHE
 endobj

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                         15   10   18 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Y AXIS TO   15   13   18 (GRID 1 COORDINATES)

radi       0.16700
```

FLTSATCOM NASCAP Results

```
surf    S13G

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                          15   13   18 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Y AXIS TO   15   14   18 (GRID 1 COORDINATES)

radi       0.16700

surf    ALUM

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                          15   14   18 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Y AXIS TO   15   17   18 (GRID 1 COORDINATES)

radi       0.16700

surf    S13G

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                          10    7   17 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE X AXIS TO   15    7   17 (GRID 1 COORDINATES)

radi       0.33300

surf    LFAL

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                          15    7   17 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Y AXIS TO   15    9   17 (GRID 1 COORDINATES)

radi       0.33300

surf    IFAL

 CONDUCTOR            1

 WEDGE

corn       15    9   18

face    ALUM       -1    0    1
 length              1          1          1
 surface -z ALUM
 surface +x ALUM
 surface -y ALUM
 surface +y ALUM
 endobj

 CONDUCTOR            1

 WEDGE

corn       15    9   18

face    ALUM        1    0    1
 length              1          1          1
 surface -z ALUM
 surface -x ALUM
 surface -y ALUM
 surface +y ALUM
 endobj

 CONDUCTOR            1

 WEDGE

corn       15    9   18

face    ALUM        1    0   -1
 length              1          1          1
 surface +z ALUM
 surface -x ALUM
 surface -y ALUM
 surface +y ALUM
 endobj

 CONDUCTOR            1

 WEDGE

corn       15    9   18

face    ALUM       -1    0   -1
 length              1          1          1
 surface +z ALUM
 surface +x ALUM
 surface -y ALUM
 surface +y ALUM
 endobj

 CONDUCTOR            1

PLATE
THIN PLATE NOW DEFINED.
                                  7<X<  7
                                  1<Y<  9
                                 26<Z< 32

bottom -x FSLI
top +x    BLKV
endobj

 CONDUCTOR            1

PLATE
THIN PLATE NOW DEFINED.
                                  7<X<  7
                                  1<Y<  9
                                  2<Z<  8

bottom -x FSL1
top +x    BLKV
endobj

 CONDUCTOR            1

PLATE
THIN PLATE NOW DEFINED.
                                  7<X<  7
                                  5<Y<  6
                                  3<Z<  4

bottom -x KAP1
top +x    BLKV
endobj

 CONDUCTOR            1

PLATE
THIN PLATE NOW DEFINED.
                                  7<X<  7
                                  5<Y<  6
                                 30<Z< 31
```

FLTSATCOM NASCAP Results

```
 bottom -z NAP1
 top +z    ELEV
 endobj

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                              7    5   28 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Z AXIS TO       7    5   26 (GRID 1 COORDINATES)

radi       0.06000

surf    LFAL

 CONDUCTOR            1

 BOOM

BOOM DEFINED
BEGINNING AT                              7    5   14 (GRID 1 COORDINATES)
EXTENDING PARALLEL TO THE Z AXIS TO       7    5    8 (GRID 1 COORDINATES)

radi       0.06000

surf    LFAL

 CONDUCTOR            1

 ASLANT

conn       2    7   15

face    SSNE        1    1    0
 length            3           3           4
 endobj

 CONDUCTOR            1

 PLATE
 THIN PLATE NOW DEFINED.
                                 5<X<  5
                                 2<Y<  3
                                15<Z< 18

 bottom -x ALUM
 top +x    NAP1
 endobj

 CONDUCTOR            1

 PLATE
 THIN PLATE NOW DEFINED.
                                 5<X<  5
                                 2<Y<  3
                                18<Z< 19

 bottom -x ALUM
 top +x    ALUM
 endobj

 CONDUCTOR            1

 PLATE
 THIN PLATE NOW DEFINED.
                                 9<X<  9
                                 2<Y<  3
                                15<Z< 16

bottom +x ALUM
top -x    ALUM
endobj

 CONDUCTOR            1

 PLATE
 THIN PLATE NOW DEFINED.
                                 9<X<  9
                                 2<Y<  3
                                16<Z< 19

 bottom +x ALUM
 top -x    NAP1
 endobj

 CONDUCTOR            1

 PLATE
 THIN PLATE NOW DEFINED.
                                 5<X<  6
                                 2<Y<  3
                                15<Z< 15

 bottom -z ALUM
 top +z    ALUM
 endobj

 CONDUCTOR            1

 PLATE
 THIN PLATE NOW DEFINED.
                                 6<X<  9
                                 2<Y<  3
                                15<Z< 15

 bottom -z ALUM
 top +z    NAP1
 endobj

 ENDSAT
 ***** beginning cmprss for          508 surfaces
 ELAPSED:     0 00:01:09.60  CPU: 0:00:48.54  BUFIO: 71  DIRIO: 269  FAULTS: 672
*** exiting cmprss with          452 surfaces
 ELAPSED:     0 00:01:26.51  CPU: 0:01:05.32  BUFIO: 71  DIRIO: 269  FAULTS: 673
 BEGIN RTSUP
 ELAPSED:     0 00:01:26.81  CPU: 0:01:05.62  BUFIO: 71  DIRIO: 269  FAULTS: 679
 END RTSUP
 ELAPSED:     0 00:01:30.32  CPU: 0:01:09.13  BUFIO: 71  DIRIO: 269  FAULTS: 679
```

FLTSATCOM NASCAP Results

SURFACE CELL NO.	CELL LIST CODE	CONDUCTOR	IX	IY	IZ	NORMAL	MATERIAL
1	415067766	1	2	9	14	-1 -1 -1	SSME ANT
2	415072426	1	2	9	15	1 1 0	SSME ANT
3	415107426	1	2	9	16	1 1 0	SSME ANT
4	415117426	1	2	9	17	1 1 0	SSME ANT
5	415122426	1	2	9	18	1 1 0	SSME ANT
6	415137566	1	2	9	19	-1 -1 1	SSME ANT
7	425267766	1	3	8	14	-1 -1 -1	SSME ANT
8	425272426	1	3	8	15	1 1 0	SSME ANT
9	425302426	1	3	8	16	1 1 0	SSME ANT
10	425312426	1	3	8	17	1 1 0	SSME ANT
11	425322426	1	3	8	18	1 1 0	SSME ANT
12	425337566	1	3	8	19	-1 -1 1	SSME ANT
13	425667766	1	3	9	13	-1 -1 -1	SSME ANT
14	425677726	1	3	9	14	-1 -1 -1	SSME ANT
15	425747526	1	3	9	19	-1 -1 1	SSME ANT
16	425757566	1	3	9	20	-1 -1 1	SSME ANT
17	433022007	1	4	2	15	1 0 0	KAP1
18	433032007	1	4	2	16	1 0 0	KAP1
19	433042007	1	4	2	17	1 0 0	KAP1
20	433052012	1	4	2	18	1 0 0	ALUM
21	30433431450	1	4	3	15	0 -1 0	KAP3
22	433436307	1	4	3	15	-1 0 -1	KAP1
23	433441410	1	4	3	16	0 -1 0	KAP3
24	433446007	1	4	3	16	-1 0 0	KAP1
25	433451410	1	4	3	17	0 -1 0	KAP3
26	433456004	1	4	3	17	-1 0 0	FSLI
27	10433461450	1	4	3	18	0 -1 0	KAP3
28	433466107	1	4	3	18	-1 0 1	KAP1
29	434046304	1	4	4	15	-1 0 -1	FSLI
30	434056007	1	4	4	16	-1 0 0	KAP1
31	434066007	1	4	4	17	-1 0 0	KAP1
32	434076104	1	4	4	18	-1 0 1	FSLI
33	434456307	1	4	5	15	-1 0 -1	KAP1
34	434466007	1	4	5	16	-1 0 0	KAP1
35	434476007	1	4	5	17	-1 0 0	KAP1
36	434506107	1	4	5	18	-1 0 1	KAP1
37	30435060441	1	4	6	15	0 1 0	KAP2
38	435066304	1	4	6	15	-1 0 -1	FSLI
39	435070401	1	4	6	16	0 1 0	KAP2
40	435076007	1	4	6	16	-1 0 0	KAP1
41	435100401	1	4	6	17	0 1 0	KAP2
42	435106007	1	4	6	17	-1 0 0	KAP1
43	10435110441	1	4	6	18	0 1 0	KAP2
44	435116104	1	4	6	18	-1 0 1	FSLI
45	435467766	1	4	7	14	-1 -1 -1	SSME ANT
46	435472426	1	4	7	15	1 1 0	SSME ANT
47	435502426	1	4	7	16	1 1 0	SSME ANT
48	435512426	1	4	7	17	1 1 0	SSME ANT
49	435522426	1	4	7	18	1 1 0	SSME ANT
50	435537566	1	4	7	19	-1 -1 1	SSME ANT

SURFACE CELL NO.	CELL LIST CODE	CONDUCTOR	IX	IY	IZ	NORMAL	MATERIAL
51	436067766	1	4	8	13	-1 -1 -1	SSME ANT
52	436077726	1	4	8	14	-1 -1 -1	SSME ANT
53	436147526	1	4	8	19	-1 -1 1	SSME ANT
54	436157566	1	4	8	20	-1 -1 1	SSME ANT
55	436467766	1	4	9	12	-1 -1 -1	SSME ANT
56	436477726	1	4	9	13	-1 -1 -1	SSME ANT
57	436567526	1	4	9	20	-1 -1 1	SSME ANT
58	436577566	1	4	9	21	-1 -1 1	SSME ANT
59	443620112	1	5	2	14	0 0 1	ALUM
60	443630312	1	5	2	15	0 0 -1	ALUM
61	443636012	1	5	2	15	-1 0 0	ALUM
62	443646012	1	5	2	16	-1 0 0	ALUM
63	443656012	1	5	2	17	-1 0 0	ALUM
64	443660107	1	5	2	18	0 0 1	KAP1
65	443666012	1	5	2	18	-1 0 0	ALUM
66	443670312	1	5	2	19	0 0 -1	ALUM
67	30444231450	1	5	3	14	0 -1 0	KAP3
68	444236304	1	5	3	14	-1 0 -1	FSLI
69	444241410	1	5	3	15	0 -1 0	KAP3
70	444251410	1	5	3	16	0 -1 0	KAP3
71	444261410	1	5	3	17	0 -1 0	KAP3
72	444271410	1	5	3	18	0 -1 0	KAP3
73	10444301450	1	5	3	19	0 -1 0	KAP3
74	444306107	1	5	3	19	-1 0 1	KAP1
75	444646307	1	5	4	14	-1 0 -1	KAP1
76	444716107	1	5	4	19	-1 0 1	KAP1
77	445256307	1	5	5	14	-1 0 -1	KAP1
78	445326104	1	5	5	19	-1 0 1	FSLI
79	30445660441	1	5	6	14	0 1 0	KAP2
80	445666307	1	5	6	14	-1 0 -1	KAP1
81	445670441	1	5	6	15	0 1 0	KAP2
82	30445670443	1	5	6	15	0 1 0	S13G
83	445700403	1	5	6	16	0 1 0	S13G
84	445710403	1	5	6	17	0 1 0	S13G
85	20445720441	1	5	6	18	0 1 0	KAP2
86	10445720443	1	5	6	18	0 1 0	S13G
87	10445730441	1	5	6	19	0 1 0	KAP2
88	445736107	1	5	6	19	-1 0 1	KAP1
89	446270526	1	5	7	14	0 1 1	SSME ANT
90	446340726	1	5	7	19	0 1 -1	SSME ANT
91	446670526	1	5	8	13	0 1 1	SSME ANT
92	446760726	1	5	8	20	0 1 -1	SSME ANT
93	447270526	1	5	9	12	0 1 1	SSME ANT
94	447400726	1	5	9	21	0 1 -1	SSME ANT
95	453662005	1	6	1	2	1 0 0	BLKV
96	453672005	1	6	1	3	1 0 0	BLKV
97	453702005	1	6	1	4	1 0 0	BLKV
98	453712005	1	6	1	5	1 0 0	BLKV
99	453722005	1	6	1	6	1 0 0	BLKV
100	453732005	1	6	1	7	1 0 0	BLKV

FLUXBUCK-MAGCAP Results

SURFACE CELL LIST CELL NO.	CODE	CONDUCTOR	IX	IY	IZ	NORMAL	MATERIAL
101	454162005	1	6	1	26	1 0 0	BLKV
102	454172005	1	6	1	27	1 0 0	BLKV
103	454182005	1	6	1	28	1 0 0	BLKV
104	454192005	1	6	1	29	1 0 0	BLKV
105	454202005	1	6	1	30	1 0 0	BLKV
106	454212005	1	6	1	31	1 0 0	BLKV
107	454272005	1	6	2	2	1 0 0	BLKV
108	454302005	1	6	2	3	1 0 0	BLKV
109	454312005	1	6	2	4	1 0 0	BLKV
110	454322005	1	6	2	5	1 0 0	BLKV
111	454332005	1	6	2	6	1 0 0	BLKV
112	454342005	1	6	2	7	1 0 0	BLKV
113	454430107	1	6	2	14	0 0 1	KAP1
114	454440312	1	6	2	15	0 0 -1	ALUM
115	454470107	1	6	2	18	0 0 1	KAP1
116	454500312	1	6	2	19	0 0 -1	ALUM
117	454572005	1	6	2	26	1 0 0	BLKV
118	454602005	1	6	2	27	1 0 0	BLKV
119	454612005	1	6	2	28	1 0 0	BLKV
120	454622005	1	6	2	29	1 0 0	BLKV
121	454632005	1	6	2	30	1 0 0	BLKV
122	454642005	1	6	2	31	1 0 0	BLKV
123	454702005	1	6	3	2	1 0 0	BLKV
124	454712005	1	6	3	3	1 0 0	BLKV
125	454722005	1	6	3	4	1 0 0	BLKV
126	454732005	1	6	3	5	1 0 0	BLKV
127	454742005	1	6	3	6	1 0 0	BLKV
128	454752005	1	6	3	7	1 0 0	BLKV
129	455040307	1	6	3	14	0 0 -1	KAP1
130	455041410	1	6	3	14	0 -1 0	KAP3
131	455051410	1	6	3	15	0 -1 0	KAP3
132	455061410	1	6	3	16	0 -1 0	KAP3
133	455071410	1	6	3	17	0 -1 0	KAP3
134	455101410	1	6	3	18	0 -1 0	KAP3
135	455110104	1	6	3	19	0 0 1	FSLI
136	455111410	1	6	3	19	0 -1 0	KAP3
137	455202005	1	6	3	26	1 0 0	BLKV
138	455212005	1	6	3	27	1 0 0	BLKV
139	455222005	1	6	3	28	1 0 0	BLKV
140	455232005	1	6	3	29	1 0 0	BLKV
141	455242005	1	6	3	30	1 0 0	BLKV
142	455252005	1	6	3	31	1 0 0	BLKV
143	455312005	1	6	4	2	1 0 0	BLKV
144	455322005	1	6	4	3	1 0 0	BLKV
145	455332005	1	6	4	4	1 0 0	BLKV
146	455342005	1	6	4	5	1 0 0	BLKV
147	455352005	1	6	4	6	1 0 0	BLKV
148	455362005	1	6	4	7	1 0 0	BLKV
149	455450304	1	6	4	14	0 0 -1	FSLI
150	455520107	1	6	4	19	0 0 1	KAP1

SURFACE CELL LIST CELL NO.	CODE	CONDUCTOR	IX	IY	IZ	NORMAL	MATERIAL
151	455612005	1	6	4	26	1 0 0	BLKV
152	455622005	1	6	4	27	1 0 0	BLKV
153	455632005	1	6	4	28	1 0 0	BLKV
154	455642005	1	6	4	29	1 0 0	BLKV
155	455652005	1	6	4	30	1 0 0	BLKV
156	455662005	1	6	4	31	1 0 0	BLKV
157	455722005	1	6	5	2	1 0 0	BLKV
158	455732005	1	6	5	3	1 0 0	BLKV
159	455742005	1	6	5	4	1 0 0	BLKV
160	455752005	1	6	5	5	1 0 0	BLKV
161	455762005	1	6	5	6	1 0 0	BLKV
162	455772005	1	6	5	7	1 0 0	BLKV
163	456060307	1	6	5	14	0 0 -1	KAP1
164	456130104	1	6	5	19	0 0 1	FSLI
165	456222005	1	6	5	26	1 0 0	BLKV
166	456232005	1	6	5	27	1 0 0	BLKV
167	456242005	1	6	5	28	1 0 0	BLKV
168	456252005	1	6	5	29	1 0 0	BLKV
169	456262005	1	6	5	30	1 0 0	BLKV
170	456272005	1	6	5	31	1 0 0	BLKV
171	456332005	1	6	6	2	1 0 0	BLKV
172	456342005	1	6	6	3	1 0 0	BLKV
173	456352005	1	6	6	4	1 0 0	BLKV
174	456362005	1	6	6	5	1 0 0	BLKV
175	456372005	1	6	6	6	1 0 0	BLKV
176	456402005	1	6	6	7	1 0 0	BLKV
177	456470304	1	6	6	14	0 0 -1	FSLI
178	456470401	1	6	6	14	0 1 0	KAP2
179	456500403	1	6	6	15	0 1 0	S13G
180	456510403	1	6	6	16	0 1 0	S13G
181	456520403	1	6	6	17	0 1 0	S13G
182	456530403	1	6	6	18	0 1 0	S13G
183	456540104	1	6	6	19	0 0 1	FSLI
184	456540401	1	6	6	19	0 1 0	KAP2
185	456632005	1	6	6	26	1 0 0	BLKV
186	456642005	1	6	6	27	1 0 0	BLKV
187	456652005	1	6	6	28	1 0 0	BLKV
188	456662005	1	6	6	29	1 0 0	BLKV
189	456672005	1	6	6	30	1 0 0	BLKV
190	456702005	1	6	6	31	1 0 0	BLKV
191	456742005	1	6	7	2	1 0 0	BLKV
192	456752005	1	6	7	3	1 0 0	BLKV
193	456762005	1	6	7	4	1 0 0	BLKV
194	456772005	1	6	7	5	1 0 0	BLKV
195	457002005	1	6	7	6	1 0 0	BLKV
196	457012005	1	6	7	7	1 0 0	BLKV
197	457100526	1	6	7	14	0 1 1	SSME ANT
198	457150726	1	6	7	19	0 1 -1	SSME ANT
199	457242005	1	6	7	26	1 0 0	BLKV
200	457252005	1	6	7	27	1 0 0	BLKV

FLTSATCOM NASCAP Results

SURFACE CELL NO.	CELL LIST CODE	CONDUCTOR	IX	IY	IZ	NORMAL			MATERIAL
201	457262005	1	6	7	28	1	0	0	BLKV
202	457272005	1	6	7	29	1	0	0	BLKV
203	457302005	1	6	7	30	1	0	0	BLKV
204	457312005	1	6	7	31	1	0	0	BLKV
205	457352005	1	6	8	2	1	0	0	BLKV
206	457362005	1	6	8	3	1	0	0	BLKV
207	457372005	1	6	8	4	1	0	0	BLKV
208	457402005	1	6	8	5	1	0	0	BLKV
209	457412005	1	6	8	6	1	0	0	BLKV
210	457422005	1	6	8	7	1	0	0	BLKV
211	457500526	1	6	8	13	0	1	1	SSME ANT
212	457570726	1	6	8	20	0	1	-1	SSME ANT
213	457652005	1	6	8	26	1	0	0	BLKV
214	457662005	1	6	8	27	1	0	0	BLKV
215	457672005	1	6	8	28	1	0	0	BLKV
216	457702005	1	6	8	29	1	0	0	BLKV
217	457712005	1	6	8	30	1	0	0	BLKV
218	457722005	1	6	8	31	1	0	0	BLKV
219	460100526	1	6	9	12	0	1	1	SSME ANT
220	460210726	1	6	9	21	0	1	-1	SSME ANT
221	464476004	1	7	1	2	-1	0	0	FSLI
222	464506004	1	7	1	3	-1	0	0	FSLI
223	464516004	1	7	1	4	-1	0	0	FSLI
224	464526004	1	7	1	5	-1	0	0	FSLI
225	464536004	1	7	1	6	-1	0	0	FSLI
226	464546004	1	7	1	7	-1	0	0	FSLI
227	464776004	1	7	1	26	-1	0	0	FSLI
228	465006004	1	7	1	27	-1	0	0	FSLI
229	465016004	1	7	1	28	-1	0	0	FSLI
230	465026004	1	7	1	29	-1	0	0	FSLI
231	465036004	1	7	1	30	-1	0	0	FSLI
232	465046004	1	7	1	31	-1	0	0	FSLI
233	465106004	1	7	2	2	-1	0	0	FSLI
234	465116004	1	7	2	3	-1	0	0	FSLI
235	465126004	1	7	2	4	-1	0	0	FSLI
236	465136004	1	7	2	5	-1	0	0	FSLI
237	465146004	1	7	2	6	-1	0	0	FSLI
238	465156004	1	7	2	7	-1	0	0	FSLI
239	465240107	1	7	2	14	0	0	1	KAP1
240	465250312	1	7	2	15	0	0	-1	ALUM
241	465300107	1	7	2	18	0	0	1	KAP1
242	465310312	1	7	2	19	0	0	-1	ALUM
243	465400504	1	7	2	26	-1	0	0	FSLI
244	465416004	1	7	2	27	-1	0	0	FSLI
245	465426004	1	7	2	28	-1	0	0	FSLI
246	465436004	1	7	2	29	-1	0	0	FSLI
247	465446004	1	7	2	30	-1	0	0	FSLI
248	465456004	1	7	2	31	-1	0	0	FSLI
249	465516004	1	7	3	2	-1	0	0	FSLI
250	465526004	1	7	3	3	-1	0	0	FSLI

SURFACE CELL NO.	CELL LIST CODE	CONDUCTOR	IX	IY	IZ	NORMAL			MATERIAL
251	465536004	1	7	3	4	-1	0	0	FSLI
252	465546004	1	7	3	5	-1	0	0	FSLI
253	465556004	1	7	3	6	-1	0	0	FSLI
254	465566004	1	7	3	7	-1	0	0	FSLI
255	465650304	1	7	3	14	0	0	-1	FSLI
256	465651410	1	7	3	14	0	-1	0	KAP3
257	465661410	1	7	3	15	0	-1	0	KAP3
258	465671410	1	7	3	16	0	-1	0	KAP3
259	465701413	1	7	3	17	0	-1	0	CPHE
260	465711410	1	7	3	18	0	-1	0	KAP3
261	465720107	1	7	3	19	0	0	1	KAP1
262	465721410	1	7	3	19	0	-1	0	KAP3
263	466016004	1	7	3	26	-1	0	0	FSLI
264	466026004	1	7	3	27	-1	0	0	FSLI
265	466036004	1	7	3	28	-1	0	0	FSLI
266	466046004	1	7	3	29	-1	0	0	FSLI
267	466056004	1	7	3	30	-1	0	0	FSLI
268	466066004	1	7	3	31	-1	0	0	FSLI
269	466126004	1	7	4	2	-1	0	0	FSLI
270	466136004	1	7	4	3	-1	0	0	FSLI
271	466146004	1	7	4	4	-1	0	0	FSLI
272	466156004	1	7	4	5	-1	0	0	FSLI
273	466166004	1	7	4	6	-1	0	0	FSLI
274	466176004	1	7	4	7	-1	0	0	FSLI
275	466260307	1	7	4	14	0	0	-1	KAP1
276	466330104	1	7	4	19	0	0	1	FSLI
277	466426004	1	7	4	26	-1	0	0	FSLI
278	466436004	1	7	4	27	-1	0	0	FSLI
279	466446004	1	7	4	28	-1	0	0	FSLI
280	466456004	1	7	4	29	-1	0	0	FSLI
281	466466004	1	7	4	30	-1	0	0	FSLI
282	466476004	1	7	4	31	-1	0	0	FSLI
283	466536004	1	7	5	2	-1	0	0	FSLI
284	466546007	1	7	5	3	-1	0	0	KAP1
285	466556004	1	7	5	4	-1	0	0	FSLI
286	466566004	1	7	5	5	-1	0	0	FSLI
287	466576004	1	7	5	6	-1	0	0	FSLI
288	466606004	1	7	5	7	-1	0	0	FSLI
289	466670304	1	7	5	14	0	0	-1	FSLI
290	466740107	1	7	5	19	0	0	1	KAP1
291	467036004	1	7	5	26	-1	0	0	FSLI
292	467046004	1	7	5	27	-1	0	0	FSLI
293	467056004	1	7	5	28	-1	0	0	FSLI
294	467066004	1	7	5	29	-1	0	0	FSLI
295	467076007	1	7	5	30	-1	0	0	KAP1
296	467106004	1	7	5	31	-1	0	0	FSLI
297	467146004	1	7	6	2	-1	0	0	FSLI
298	467156004	1	7	6	3	-1	0	0	FSLI
299	467166004	1	7	6	4	-1	0	0	FSLI
300	467176004	1	7	6	5	-1	0	0	FSLI

FLTSATCOM NASCAP Results

SURFACE CELL LIST CELL NO.	CODE	CONDUCTOR	IX	IY	IZ	NORMAL	MATERIAL
301	467206004	1	7	6	6	-1 0 0	FSLI
302	467216004	1	7	6	7	-1 0 0	FSLI
303	467300304	1	7	6	14	0 0 -1	FSLI
304	467300401	1	7	6	14	0 1 0	KAP2
305	467310403	1	7	6	15	0 1 0	S13G
306	467320403	1	7	6	16	0 1 0	S13G
307	467330403	1	7	6	17	0 1 0	S13G
308	467340403	1	7	6	18	0 1 0	S13G
309	467350104	1	7	6	19	0 0 1	FSLI
310	467350401	1	7	6	19	0 1 0	KAP2
311	467446004	1	7	6	26	-1 0 0	FSLI
312	467456004	1	7	6	27	-1 0 0	FSLI
313	467466004	1	7	6	28	-1 0 0	FSLI
314	467476004	1	7	6	29	-1 0 0	FSLI
315	467506004	1	7	6	30	-1 0 0	FSLI
316	467516004	1	7	6	31	-1 0 0	FSLI
317	467556004	1	7	7	2	-1 0 0	FSLI
318	467566004	1	7	7	3	-1 0 0	FSLI
319	467576004	1	7	7	4	-1 0 0	FSLI
320	467606004	1	7	7	5	-1 0 0	FSLI
321	467616004	1	7	7	6	-1 0 0	FSLI
322	467626004	1	7	7	7	-1 0 0	FSLI
323	467710526	1	7	7	14	0 1 1	SSME ANT
324	467760726	1	7	7	19	0 1 -1	SSME ANT
325	470056004	1	7	7	26	-1 0 0	FSLI
326	470066004	1	7	7	27	-1 0 0	FSLI
327	470076004	1	7	7	28	-1 0 0	FSLI
328	470106004	1	7	7	29	-1 0 0	FSLI
329	470116004	1	7	7	30	-1 0 0	FSLI
330	470126004	1	7	7	31	-1 0 0	FSLI
331	470166004	1	7	8	2	-1 0 0	FSLI
332	470176004	1	7	8	3	-1 0 0	FSLI
333	470206004	1	7	8	4	-1 0 0	FSLI
334	470216004	1	7	8	5	-1 0 0	FSLI
335	470226004	1	7	8	6	-1 0 0	FSLI
336	470236004	1	7	8	7	-1 0 0	FSLI
337	470310526	1	7	8	13	0 1 1	SSME ANT
338	470460726	1	7	8	20	0 1 -1	SSME ANT
339	470466004	1	7	8	26	-1 0 0	FSLI
340	470476004	1	7	8	27	-1 0 0	FSLI
341	470506004	1	7	8	28	-1 0 0	FSLI
342	470516004	1	7	8	29	-1 0 0	FSLI
343	470526004	1	7	8	30	-1 0 0	FSLI
344	470536004	1	7	8	31	-1 0 0	FSLI
345	470710526	1	7	9	12	0 1 1	SSME ANT
346	471020726	1	7	9	21	0 1 -1	SSME ANT
347	476050107	1	8	2	14	0 0 1	KAP1
348	476060312	1	8	2	15	0 0 -1	ALUM
349	476062012	1	8	2	15	1 0 0	ALUM
350	476072012	1	8	2	16	1 0 0	ALUM
351	476102012	1	8	2	17	1 0 0	ALUM
352	476110112	1	8	2	18	0 0 1	ALUM
353	476112012	1	8	2	18	1 0 0	ALUM
354	476120312	1	8	2	19	0 0 -1	ALUM
355	20476461450	1	8	3	14	0 -1 0	KAP3
356	476462307	1	8	3	14	1 0 -1	KAP1
357	476471410	1	8	3	15	0 -1 0	KAP3
358	476581410	1	8	3	16	0 -1 0	KAP3
359	476511410	1	8	3	17	0 -1 0	KAP3
360	476521410	1	8	3	18	0 -1 0	KAP3
361	476531450	1	8	3	19	0 -1 0	KAP3
362	476532107	1	8	3	19	1 0 1	KAP1
363	477072307	1	8	4	14	1 0 -1	KAP1
364	477142107	1	8	4	19	1 0 1	KAP1
365	477582307	1	8	5	14	1 0 -1	KAP1
366	477582107	1	8	5	19	1 0 1	KAP1
367	20500110441	1	8	6	14	0 1 0	KAP2
368	500112307	1	8	6	14	1 0 -1	KAP1
369	10500120441	1	8	6	15	0 1 0	KAP2
370	20500120443	1	8	6	15	0 1 0	S13G
371	500130403	1	8	6	16	0 1 0	S13G
372	500140403	1	8	6	17	0 1 0	S13G
373	30500150441	1	8	6	18	0 1 0	KAP2
374	500150443	1	8	6	18	0 1 0	S13G
375	500160441	1	8	6	19	0 1 0	KAP2
376	500162107	1	8	6	19	1 0 1	KAP1
377	500520526	1	8	7	14	0 1 1	SSME ANT
378	500570726	1	8	7	19	0 1 -1	SSME ANT
379	501120526	1	8	8	13	0 1 1	SSME ANT
380	501210726	1	8	8	20	0 1 -1	SSME ANT
381	501520526	1	8	9	12	0 1 1	SSME ANT
382	501630726	1	8	9	21	0 1 -1	SSME ANT
383	506676012	1	9	2	15	-1 0 0	ALUM
384	506706007	1	9	2	16	-1 0 0	KAP1
385	506716007	1	9	2	17	-1 0 0	KAP1
386	506726007	1	9	2	18	-1 0 0	KAP1
387	20507301450	1	9	3	15	0 -1 0	KAP3
388	507302307	1	9	3	15	1 0 -1	KAP1
389	507311410	1	9	3	16	0 -1 0	KAP3
390	507312007	1	9	3	16	1 0 0	KAP1
391	507321410	1	9	3	17	0 -1 0	KAP3
392	507322004	1	9	3	17	1 0 0	FSLI
393	507331450	1	9	3	18	0 -1 0	KAP3
394	507332107	1	9	3	18	1 0 1	KAP1
395	507712304	1	9	4	15	1 0 -1	FSLI
396	507722007	1	9	4	16	1 0 0	KAP1
397	507732007	1	9	4	17	1 0 0	KAP1
398	507742104	1	9	4	18	1 0 1	FSLI
399	510322307	1	9	5	15	1 0 -1	KAP1
400	510332004	1	9	5	16	1 0 0	FSLI

FLTSATCOM NASCAP Results

SURFACE CELL LIST

CELL NO.	CODE	CONDUCTOR	IX	IY	IZ	NORMAL	MATERIAL
401	510342007	1	9	5	17	1 0 0	KAP1
402	510352107	1	9	5	18	1 0 1	KAP1
403	20510730441	1	9	6	15	0 1 0	KAP2
404	510732304	1	9	6	15	1 0 -1	FSLI
405	510740401	1	9	6	16	0 1 0	KAP2
406	510742007	1	9	6	16	1 0 0	KAP1
407	510750401	1	9	6	17	0 1 0	KAP2
408	510752007	1	9	6	17	1 0 0	KAP1
409	510760441	1	9	6	18	0 1 0	KAP2
410	510762104	1	9	6	18	1 0 1	FSLI
411	511333766	1	9	7	14	1 -1 -1	SSME ANT
412	511343426	1	9	7	15	1 -1 0	SSME ANT
413	511353426	1	9	7	16	1 -1 0	SSME ANT
414	511363426	1	9	7	17	1 -1 0	SSME ANT
415	511373426	1	9	7	18	1 -1 0	SSME ANT
416	511403566	1	9	7	19	1 -1 1	SSME ANT
417	511733766	1	9	8	13	1 -1 -1	SSME ANT
418	511743726	1	9	8	14	1 -1 -1	SSME ANT
419	512013526	1	9	8	19	1 -1 1	SSME ANT
420	512023566	1	9	8	20	1 -1 1	SSME ANT
421	512333766	1	9	9	12	1 -1 -1	SSME ANT
422	512343726	1	9	9	13	1 -1 -1	SSME ANT
423	512433526	1	9	9	20	1 -1 1	SSME ANT
424	512443566	1	9	9	21	1 -1 1	SSME ANT
425	522553766	1	10	8	14	1 -1 -1	SSME ANT
426	522563426	1	10	8	15	1 -1 0	SSME ANT
427	522573426	1	10	8	16	1 -1 0	SSME ANT
428	522603426	1	10	8	17	1 -1 0	SSME ANT
429	522613426	1	10	8	18	1 -1 0	SSME ANT
430	522623566	1	10	8	19	1 -1 1	SSME ANT
431	523153766	1	10	9	13	1 -1 -1	SSME ANT
432	523163726	1	10	9	14	1 -1 -1	SSME ANT
433	523233526	1	10	9	19	1 -1 1	SSME ANT
434	523243566	1	10	9	20	1 -1 1	SSME ANT
435	533773766	1	11	9	14	1 -1 -1	SSME ANT
436	534003426	1	11	9	15	1 -1 0	SSME ANT
437	534013426	1	11	9	16	1 -1 0	SSME ANT
438	534023426	1	11	9	17	1 -1 0	SSME ANT
439	534033426	1	11	9	18	1 -1 0	SSME ANT
440	534043566	1	11	9	19	1 -1 1	SSME ANT
441	30566250452	1	14	9	17	0 1 0	ALUM
442	30566251452	1	14	9	17	0 -1 0	ALUM
443	566256312	1	14	9	17	-1 0 -1	ALUM
444	10566260452	1	14	9	18	0 1 0	ALUM
445	10566261452	1	14	9	18	0 -1 0	ALUM
446	566266112	1	14	9	18	-1 0 1	ALUM
447	20577060452	1	15	9	17	0 1 0	ALUM
448	20577061452	1	15	9	17	0 -1 0	ALUM
449	577062312	1	15	9	17	1 0 -1	ALUM
450	577070452	1	15	9	18	0 1 0	ALUM

SURFACE CELL LIST

CELL NO.	CODE	CONDUCTOR	IX	IY	IZ	NORMAL	MATERIAL
451	577071452	1	15	9	18	0 -1 0	ALUM
452	577072112	1	15	9	18	1 0 1	ALUM

BOOM SURFACE CELL LIST

CELL NO.	CODE	CONDUCTOR	IX	IY	IZ	GRID	AXIS	BOOM	INT	MATERIAL
453	61070721	1	7	7	17	1	Y	1	1	S13G
454	61071021	1	7	8	17	1	Y	1	1	S13G
455	62071121	1	7	9	17	1	Y	2	1	ALUM
456	62071221	1	7	10	17	1	Y	2	1	ALUM
457	62071321	1	7	11	17	1	Y	2	1	ALUM
458	62071421	1	7	12	17	1	Y	2	1	ALUM
459	63071521	1	7	13	17	1	Y	3	1	S13G
460	64171222	1	15	10	18	1	Y	4	1	S13G
461	64171322	1	15	11	18	1	Y	4	1	S13G
462	64171422	1	15	12	18	1	Y	4	1	S13G
463	65171522	1	15	13	18	1	Y	5	1	ALUM
464	66171622	1	15	14	18	1	Y	6	1	S13G
465	66171722	1	15	15	18	1	Y	6	1	S13G
466	66172022	1	15	16	18	1	Y	6	1	S13G
467	67120721	1	10	7	17	1	X	7	1	LFAL
468	67130721	1	11	7	17	1	X	7	1	LFAL
469	67140721	1	12	7	17	1	X	7	1	LFAL
470	67150721	1	13	7	17	1	X	7	1	LFAL
471	67160721	1	14	7	17	1	X	7	1	LFAL
472	70170721	1	15	7	17	1	Y	8	1	LFAL
473	70171021	1	15	8	17	1	Y	8	1	LFAL
474	71070524	1	7	5	20	1	Z	9	1	LFAL
475	71070525	1	7	5	21	1	Z	9	1	LFAL
476	71070526	1	7	5	22	1	Z	9	1	LFAL
477	71070527	1	7	5	23	1	Z	9	1	LFAL
478	71070530	1	7	5	24	1	Z	9	1	LFAL
479	71070531	1	7	5	25	1	Z	9	1	LFAL
480	72070510	1	7	5	8	1	Z	10	1	LFAL
481	72070511	1	7	5	9	1	Z	10	1	LFAL
482	72070512	1	7	5	10	1	Z	10	1	LFAL
483	72070513	1	7	5	11	1	Z	10	1	LFAL
484	72070514	1	7	5	12	1	Z	10	1	LFAL
485	72070515	1	7	5	13	1	Z	10	1	LFAL

LIST OF BOOM PROPERTIES

BOOM	RADIUS	AXIS	MATERIAL	CONDUC
1	0.218	Y	S13G	1
2	0.083	Y	ALUM	1
3	0.042	Y	S13G	1
4	0.167	Y	S13G	1
5	0.167	Y	ALUM	1
6	0.167	Y	S13G	1
7	0.333	X	LFAL	1
8	0.333	Y	LFAL	1
9	0.060	Z	LFAL	1
10	0.060	Z	LFAL	1

FLTSATCOM NASCAP Results

PREPROCESSING OF MATERIAL PROPERTIES

MATERIAL 1: KAP2

	PROPERTY	INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	3.50E+00 (NONE)	3.50E+00 (NONE)
2	THICKNES	1.27E-05 METERS	1.27E-04 MESH
3	CONDUCTIVITY	1.00E-16 MHO/M	1.00E-16 MHO/M
4	ATOMIC NUMBER	5.00E+00 (NONE)	5.00E+00 (NONE)
5	DELTA MAX > COEFF	2.10E+00 (NONE)	4.06E+01 (NONE)
6	E-MAX > DEPTH**-1	1.50E-01 KEV	8.74E-02 ANG-01
7	RANGE	7.15E+01 ANG.	4.29E+01 ANG.
8	EXPONENT > RANGE	6.00E-01 (NONE)	5.52E+02 ANG.
9	RANGE > EXPONENT	3.12E+02 ANG.	6.00E-01 (NONE)
10	EXPONENT	1.77E+00 (NONE)	1.77E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	7.90E+20 OHMS	6.99E+08 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	1.00E-16

MATERIAL 2: LFAL

	PROPERTY	INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	3.50E+00 (NONE)	3.50E+00 (NONE)
2	THICKNES	2.54E-05 METERS	2.54E-04 MESH
3	CONDUCTIVITY	1.23E-08 MHO/M	1.23E-08 MHO/M
4	ATOMIC NUMBER	5.00E+00 (NONE)	5.00E+00 (NONE)
5	DELTA MAX > COEFF	2.10E+00 (NONE)	4.06E+01 (NONE)
6	E-MAX > DEPTH**-1	1.50E-01 KEV	8.74E-02 ANG-01
7	RANGE	7.15E+01 ANG.	4.29E+01 ANG.
8	EXPONENT > RANGE	6.00E-01 (NONE)	5.52E+02 ANG.
9	RANGE > EXPONENT	3.12E+02 ANG.	6.00E-01 (NONE)
10	EXPONENT	1.77E+00 (NONE)	1.77E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	3.20E+12 OHMS	2.83E+00 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	1.23E-06

MATERIAL 3: S13G

	PROPERTY	INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	3.50E+00 (NONE)	3.50E+00 (NONE)
2	THICKNES	1.02E-04 METERS	1.02E-03 MESH
3	CONDUCTIVITY	6.50E-10 MHO/M	6.50E-10 MHO/M
4	ATOMIC NUMBER	5.00E+00 (NONE)	5.00E+00 (NONE)
5	DELTA MAX > COEFF	2.10E+00 (NONE)	3.05E+01 (NONE)
6	E-MAX > DEPTH**-1	1.50E-01 KEV	3.41E-02 ANG-01
7	RANGE	-1.00E+00 ANG.	1.05E+03 ANG.
8	EXPONENT > RANGE	0.00E+00 (NONE)	0.00E+00 ANG.
9	RANGE > EXPONENT	1.05E+00 ANG.	1.51E+00 (NONE)
10	EXPONENT	9.80E+00 (NONE)	1.00E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	1.50E+13 OHMS	1.33E+01 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	6.50E-10

MATERIAL 4: FSLI

	PROPERTY	INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	4.00E+00 (NONE)	4.00E+00 (NONE)
2	THICKNES	1.52E-04 METERS	1.52E-03 MESH
3	CONDUCTIVITY	1.00E-14 MHO/M	1.00E-14 MHO/M
4	ATOMIC NUMBER	1.00E+01 (NONE)	1.00E+01 (NONE)
5	DELTA MAX > COEFF	2.40E+00 (NONE)	1.46E+01 (NONE)
6	E-MAX > DEPTH**-1	4.00E-01 KEV	2.21E-02 ANG-01
7	RANGE	1.16E+02 ANG.	9.40E+01 ANG.
8	EXPONENT > RANGE	8.10E-01 (NONE)	3.40E+02 ANG.
9	RANGE > EXPONENT	1.03E+02 ANG.	8.10E-01 (NONE)
10	EXPONENT	1.86E+00 (NONE)	1.86E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	6.59E+17 OHMS	5.03E+05 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	1.00E-14

MATERIAL 5: BLKV

	PROPERTY	INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	3.50E+00 (NONE)	3.50E+00 (NONE)
2	THICKNES	5.08E-05 METERS	5.08E-04 MESH
3	CONDUCTIVITY	1.40E-08 MHO/M	1.40E-08 MHO/M
4	ATOMIC NUMBER	5.00E+00 (NONE)	5.00E+00 (NONE)
5	DELTA MAX > COEFF	2.10E+00 (NONE)	4.06E+01 (NONE)
6	E-MAX > DEPTH**-1	1.50E-01 KEV	8.74E-02 ANG-01
7	RANGE	7.15E+01 ANG.	4.29E+01 ANG.
8	EXPONENT > RANGE	6.00E-01 (NONE)	5.52E+02 ANG.
9	RANGE > EXPONENT	3.12E+02 ANG.	6.00E-01 (NONE)
10	EXPONENT	1.77E+00 (NONE)	1.77E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	1.40E+12 OHMS	1.24E+00 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	1.40E-06

MATERIAL 6: SSME

	PROPERTY	INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	1.00E+00 (NONE)	1.00E+00 (NONE)
2	THICKNES	1.00E-03 METERS	1.00E-02 MESH
3	CONDUCTIVITY	-1.00E+00 MHO/M	-1.00E+00 MHO/M
4	ATOMIC NUMBER	4.70E+01 (NONE)	4.70E+01 (NONE)
5	DELTA MAX > COEFF	1.00E+00 (NONE)	3.09E+00 (NONE)
6	E-MAX > DEPTH**-1	6.00E-01 KEV	1.58E-02 ANG-01
7	RANGE	8.45E+01 ANG.	6.93E+01 ANG.
8	EXPONENT > RANGE	8.20E-01 (NONE)	1.38E+02 ANG.
9	RANGE > EXPONENT	7.94E+01 ANG.	8.20E-01 (NONE)
10	EXPONENT	1.74E+00 (NONE)	1.74E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.90E-01 (NONE)	4.90E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.23E+02 KEV	1.23E+02 KEV
13	PHOTOCURRENT	2.90E-05 A/M**2	2.90E-05 A/M**2
14	SURFACE RESISTIVITY	-1.00E+00 OHMS	-8.85E-13 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	-1.00E+00

MATERIAL 7: KAP1

	PROPERTY	INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	3.50E+00 (NONE)	3.50E+00 (NONE)

FLTSATCOM NASCAP Results

2	THICKNES	5.08E-05 METERS	5.08E-04 MESH
3	CONDUCTIVITY	1.00E-16 MHO/M	1.00E-16 MHO/M
4	ATOMIC NUMBER	5.00E+00 (NONE)	5.00E+00 (NONE)
5	DELTA MAX > COEFF	2.10E+00 (NONE)	4.06E+01 (NONE)
6	E-MAX > DEPTH**-1	1.50E-01 KEV	8.74E-02 ANG-01
7	RANGE	7.15E+01 ANG.	4.29E+01 ANG.
8	EXPONENT > RANGE	6.00E-01 (NONE)	5.52E+02 ANG.
9	RANGE > EXPONENT	3.12E+02 ANG.	6.00E-01 (NONE)
10	EXPONENT	1.77E+00 (NONE)	1.77E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	2.00E+20 OHMS	1.77E+08 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	1.00E-16

MATERIAL 8. KAP3

PROPERTY		INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	3.50E+00 (NONE)	3.50E+00 (NONE)
2	THICKNES	1.27E-04 METERS	1.27E-03 MESH
3	CONDUCTIVITY	1.00E-16 MHO/M	1.00E-16 MHO/M
4	ATOMIC NUMBER	5.00E+00 (NONE)	5.00E+00 (NONE)
5	DELTA MAX > COEFF	2.10E+00 (NONE)	4.06E+01 (NONE)
6	E-MAX > DEPTH**-1	1.50E-01 KEV	8.74E-02 ANG-01
7	RANGE	7.15E+01 ANG.	4.29E+01 ANG.
8	EXPONENT > RANGE	6.00E-01 (NONE)	5.52E+02 ANG.
9	RANGE > EXPONENT	3.12E+02 ANG.	6.00E-01 (NONE)
10	EXPONENT	1.77E+00 (NONE)	1.77E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	7.90E+19 OHMS	6.99E+07 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	1.00E-16

MATERIAL 9: EHFP

PROPERTY		INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	1.00E+00 (NONE)	1.00E+00 (NONE)
2	THICKNES	1.00E-03 METERS	1.00E-02 MESH
3	CONDUCTIVITY	-1.00E+00 MHO/M	-1.00E+00 MHO/M
4	ATOMIC NUMBER	2.44E+01 (NONE)	2.44E+01 (NONE)
5	DELTA MAX > COEFF	1.40E+00 (NONE)	3.02E+00 (NONE)
6	E-MAX > DEPTH**-1	8.00E-01 KEV	1.49E-02 ANG-01
7	RANGE	-1.00E+00 ANG.	1.57E+02 ANG.
8	EXPONENT > RANGE	0.00E+00 (NONE)	0.00E+00 ANG.
9	RANGE > EXPONENT	7.18E+00 ANG.	2.01E+00 (NONE)
10	EXPONENT	5.55E+01 (NONE)	1.00E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.90E-01 (NONE)	4.90E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.23E+02 KEV	1.23E+02 KEV
13	PHOTOCURRENT	3.20E-05 A/M**2	3.20E-05 A/M**2
14	SURFACE RESISTIVITY	-1.00E+00 OHMS	-8.85E-13 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	-1.00E+00

MATERIAL 10: ALUM

PROPERTY		INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	1.00E+00 (NONE)	1.00E+00 (NONE)
2	THICKNES	1.00E-03 METERS	1.00E-02 MESH
3	CONDUCTIVITY	-1.00E+00 MHO/M	-1.00E+00 MHO/M
4	ATOMIC NUMBER	1.30E+01 (NONE)	1.30E+01 (NONE)
5	DELTA MAX > COEFF	9.70E-01 (NONE)	9.19E+00 (NONE)
6	E-MAX > DEPTH**-1	3.00E-01 KEV	3.00E-02 ANG-01
7	RANGE	1.54E+02 ANG.	1.23E+02 ANG.
8	EXPONENT > RANGE	8.00E-01 (NONE)	3.87E+02 ANG.
9	RANGE > EXPONENT	2.20E+02 ANG.	8.00E-01 (NONE)
10	EXPONENT	1.76E+00 (NONE)	1.76E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	2.44E-01 (NONE)	2.44E-01 (NONE)
12	MAX DE/DX FOR PROTONS	2.30E+02 KEV	2.30E+02 KEV
13	PHOTOCURRENT	4.00E-05 A/M**2	4.00E-05 A/M**2
14	SURFACE RESISTIVITY	-1.00E+00 OHMS	-8.85E-13 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	-1.00E+00

MATERIAL 11: CPHE

PROPERTY		INPUT VALUE	CODE VALUE
1	DIELECTRIC CONSTANT	3.50E+00 (NONE)	3.50E+00 (NONE)
2	THICKNES	5.08E-03 METERS	5.08E-02 MESH
3	CONDUCTIVITY	1.00E-10 MHO/M	1.00E-10 MHO/M
4	ATOMIC NUMBER	7.00E+00 (NONE)	7.00E+00 (NONE)
5	DELTA MAX > COEFF	3.00E+00 (NONE)	2.27E+01 (NONE)
6	E-MAX > DEPTH**-1	3.00E-01 KEV	3.83E-02 ANG-01
7	RANGE	4.54E+01 ANG.	1.82E+01 ANG.
8	EXPONENT > RANGE	4.00E-01 (NONE)	3.86E+02 ANG.
9	RANGE > EXPONENT	2.18E+02 ANG.	4.00E-01 (NONE)
10	EXPONENT	1.77E+00 (NONE)	1.77E+00 (NONE)
11	YIELD FOR 1KEV PROTONS	4.55E-01 (NONE)	4.55E-01 (NONE)
12	MAX DE/DX FOR PROTONS	1.40E+02 KEV	1.40E+02 KEV
13	PHOTOCURRENT	2.00E-05 A/M**2	2.00E-05 A/M**2
14	SURFACE RESISTIVITY	1.00E+10 OHMS	8.85E-03 V-S/Q
15	SPACE DISCHARGE POT'L	1.00E+04 VOLTS	1.00E+04 VOLTS
16	INTERNAL DISCHARE POT'L	2.00E+03 VOLTS	2.00E+03 VOLTS
17	RADN INDUCEDCOND'Y COEFF	1.00E-13 MHOMS3	1.00E-13 MHOMS3
18	RADN INDUCEDCOND'Y POWER	1.00E+00 (NONE)	1.00E+00 (NONE)
19	DENSITY	1.00E+03 KG/M**3	1.00E+03 KG/M**3
20		2.00E+01	1.00E-10

```
     332 VOLUME CELLS NUMBERED BY NUMLTB.
CHGSL CALLED FOR LUN=          20
**genmtl: dol3
ELAPSED:    0 00:01:57.90  CPU: 0:01:23.64  BUFIO: 136  DIRIO: 653  FAULTS: 895
**genmtl: srtwds
ELAPSED:    0 00:01:58.85  CPU: 0:01:24.59  BUFIO: 136  DIRIO: 653  FAULTS: 912
**genmtl: after srtwds
ELAPSED:    0 00:01:59.33  CPU: 0:01:25.07  BUFIO: 136  DIRIO: 653  FAULTS: 912
**genmtl: inslst
ELAPSED:    0 00:02:11.69  CPU: 0:01:37.05  BUFIO: 136  DIRIO: 662  FAULTS: 951

 INSLST --  336 INSULATING SURFACE CELLS FOUND
                364 INCLUDING BOOM CELLS
**genmtl: skel1
ELAPSED:    0 00:02:11.98  CPU: 0:01:37.23  BUFIO: 136  DIRIO: 664  FAULTS: 965
**genmtl: fndsce
ELAPSED:    0 00:02:12.02  CPU: 0:01:37.27  BUFIO: 136  DIRIO: 664  FAULTS: 982


KAP2 HAS SURFACE RESISTIVITY OF    7.9E+20 OHMS
LFAL HAS SURFACE RESISTIVITY OF    3.2E+12 OHMS
S13G HAS SURFACE RESISTIVITY OF    1.5E+13 OHMS
FSLI HAS SURFACE RESISTIVITY OF    6.6E+17 OHMS
BLKV HAS SURFACE RESISTIVITY OF    1.4E+12 OHMS
KAP1 HAS SURFACE RESISTIVITY OF    2.0E+20 OHMS
KAP3 HAS SURFACE RESISTIVITY OF    7.9E+19 OHMS
CPHE HAS SURFACE RESISTIVITY OF    1.0E+10 OHMS


 FNDSCE --  696 SURFACE CONDUCTING EDGES FOUND

  BOOMEJ --  753 EDGES FOUND
**genmtl: nwvtxl
```

FLTSATCOM NASCAP Results

```
 ELAPSED:     0 00:03:12.86  CPU: 0:02:37.46  BUFIO: 138  DIRIO: 677  FAULTS: 1001

       1496 ENTRIES IN REVISED VTXL
 **genmtl: end genmtl
 ELAPSED:     0 00:03:39.53  CPU: 0:03:00.20  BUFIO: 138  DIRIO: 810  FAULTS: 1100
DBLCLN - DPT ( 5, 3,15) ELT 1 MARKED BOT
DBLCLN - DPT ( 5, 3,15) ELT 4 MARKED BOT
DBLCLN - DPT ( 5, 3,15) ELT 7 MARKED BOT
DBLCLN - DPT ( 5, 3,15) ELT 3 MARKED BOT
DBLCLN - DPT ( 5, 3,18) ELT 7 MARKED BOT
DBLCLN - DPT ( 5, 3,19) ELT 5 MARKED TOP
DBLCLN - DPT ( 5, 3,19) ELT 7 MARKED BOT
DBLCLN - DPT ( 5, 3,19) ELT 8 MARKED TOP
DBLCLN - DPT ( 8, 3,15) ELT 4 MARKED BOT
DBLCLN - DPT ( 8, 3,19) ELT 8 MARKED TOP
DBLCLN - DPT ( 9, 3,15) ELT 2 MARKED BOT
DBLCLN - DPT ( 9, 3,15) ELT 4 MARKED BOT
DBLCLN - DPT ( 9, 3,15) ELT 8 MARKED BOT
DBLCLN - DPT ( 9, 3,18) ELT 8 MARKED BOT
DBLCLN - DPT ( 9, 3,19) ELT 6 MARKED TOP
DBLCLN - DPT ( 9, 3,19) ELT 8 MARKED TOP
 ELAPSED:     0 00:03:43.38  CPU: 0:03:01.19  BUFIO: 139  DIRIO: 853  FAULTS: 1105


******Hidcel
 ELAPSED:     0 00:03:43.49  CPU: 0:03:01.25  BUFIO: 139  DIRIO: 854  FAULTS: 1113
FILE OPENED FOR DIRECT ACCESS.  FILE:  2
HIDCEL - DIR = ( 0.9759000, 0.0975900,-0.1951800)
DISTANCE = 1000.00
**WARNING**  IN HIDCEL N3T=  12 IFFS=  12001200000 BYPASSED ADDA1

FINAL NA1 =   296
 ELAPSED:     0 00:04:18.06  CPU: 0:03:26.66  BUFIO: 149  DIRIO: 1002  FAULTS: 1413


******Capaci
 ELAPSED:     0 00:04:18.26  CPU: 0:03:26.76  BUFIO: 150  DIRIO: 1005  FAULTS: 1415
 call to s3lcor

  POTENTIALS TO BE SET BY SETALL TO   1.00E+00/(4*PI*R)

AVERAGE RADIUS (R0)  =   9.72E+00 CODE UNITS

            46 POTENTIAL ITERATIONS COMPLETED.
               RDOTR/RDRMAX=  3.00D-09/  4.86E-01
PCOND =    1.1062E-02
QCOND =    1.0000E+00

   VPAR=  1.1046E-02 -- CS SCALED BY  9.9916E-01

 CROEFF --- EFFECTIVE OBJECT RADIUS =       0.7199 METERS
 ELAPSED:     0 00:56:04.06  CPU: 0:33:55.21  BUFIO: 339  DIRIO: 34731  FAULTS: 1663


******Trilin
 ELAPSED:     0 00:56:04.11  CPU: 0:33:55.26  BUFIO: 339  DIRIO: 34731  FAULTS: 1663
 call to s3lcor
FLUX DEFINITION  MAXWELL

               ELECTRON TEMPERATURE =   1.50E+04 ELECTRON VOLTS

               ELECTRON DENSITY =       1.00E+06 METER**(-3)

               ION TEMPERATURE =        1.50E+04 ELECTRON VOLTS

               ION DENSITY =            1.00E+06 METER**(-3)

  POTENTIALS TO BE SET BY SETALL TO   1.00E+00/(4*PI*R)

AVERAGE RADIUS (R0)  =   9.72E+00 CODE UNITS

*** THE SYSTEM IS NOW AT TIME   0.000E+00 SECONDS.     3 CYCLES HAVE BEEN REQUESTED.
```

DELTA= 6.00E+01 SECONDS. DELFAC= 1.00E+00.

FLTSATCOM NASCAP Results

```
         BEGIN CYCLE NO.    1          TIME =   0.000E+00 SECONDS.
 ELAPSED:     0 00:56:17.75  CPU: 0:33:59.95  BUFIO: 345  DIRIO: 34933  FAULTS: 1733

  QSUMER FOUND QSUM=  1.00E+00 CODE UNITS.
        AFTER SCREENING CORRECTION (SCREENING LENGTH=  1.00E+03 M.) QSUM=  1.00E+00
                  QSCALE=  1.00E+00        CORRECTED TO   1.00E+00
                  QSUM =  1.0012E+00
                  PCOND =  8.190E-03
                  QCOND =  0.000E+00

-------------------------------------------------------------------------------

  EXPLICITLY CALCULATED FLUXES FOR CYCLE   1     TIME =  0.000E+00 SECONDS.
  DURING THIS TIMESTEP, NASCAP WILL TAKE INTO ACCOUNT SUCH
  ADDITIONAL EFFECTS AS SURFACE CONDUCTIVITY, DISCHARGES, EMITTER OPERATION,
  AND VARIATION OF LIMITING FACTORS FOR LOW-ENERGY EMITTED ELECTRONS.

-------------------------------------------------------------------------------

  SURFACE CELL NO.    1                              CODE =          415067766
                                                     LOCATION =    2  9 14
                                                     NORMAL =      1  1  1
                                                     MATERIAL =  SSME ANT.
                              POTENTIAL =  0.000E+00 VOLTS
                              EXTERNAL FIELD =  0.000E+00 VOLTS/METER
                              LIMITING FACTOR =  1.000E+00
   FLUXES IN A/M**2
        INCIDENT ELECTRONS                          3.29E-06
             RESULTING SECONDARIES                  1.05E-06
             RESULTING BACKSCATTER                  1.79E-06
        INCIDENT PROTONS                            7.68E-08
             RESULTING SECONDARIES                  3.01E-07
        PHOTOCURRENT                                1.47E-05
                                                   ----------
       NET FLUX                                     1.46E-05

         INITIAL NET CHARGING CURRENT (WITHOUT LIMITING) =  2.54E-05 AMPERES.
         INITIAL NET CHARGING CURRENT (WITH    LIMITING) =  2.54E-05 AMPERES.
  call to s31cor
  ELAPSED:     0 00:59:08.47  CPU: 0:36:34.69  BUFIO: 348  DIRIO: 35115  FAULTS: 1770
  ELAPSED:     0 00:59:08.48  CPU: 0:36:34.70  BUFIO: 349  DIRIO: 35115  FAULTS: 1771
***LIMCEL*** LOC(BUF(1,12))=       1745314

   TOTAL CAPACITANCE TO INFINITY =    90.5 CODE UNITS;    8.01E-11 FARADS.

     ICCG --- RDOTR/RDOTR1 =   1.24E-16/  5.44E+14

   LEAVING ICCG1 -- VCTRI =   1.900E+07

     ICCG --- RDOTR/RDOTR1 =   1.77E-20/  4.53E+08

   LEAVING ICCG1 -- VCTRI =   0.000E+00
***WARNING*** DFDVMX NOT CALLED DUE TO PRESENCE OF HIGH CONDUCTIVITY MATERIALS.
                 DELTMX=  2.23E-04 SECONDS.
***DFDVMY - CMAX=  2.54E-05 AMPS     DFDVC(1) CHANGED FROM   0.00000E+00 TO  -1.43312E+04

     ICCG --- RDOTR/RDOTR1 =   1.22E-20/  4.41E+08

   LEAVING ICCG1 -- VCTRI =   0.000E+00

    VFIX ---  176 OUT OF  364 NODES FIXED.
CONDUCTOR   1 FIXED TO     1.33 VOLTS.

     ICCG --- RDOTR/RDOTR1 =   1.89E-20/  5.37E+08

   LEAVING ICCG1 -- VCTRI =   1.326E+00
   NO DISCHARGE ANALYSIS

     ICCG --- RDOTR/RDOTR1 =   1.49E-18/  2.56E+10

   LEAVING ICCG2 -- VCTRI =   1.781E+00

  AVERAGE FLUXES (ONLY AVAILABLE FOR INSULATING CELLS)

 NEW CONDUCTOR POTENTIALS

          VNEW              DQ              VOLD        CONDUCTOR
     1.7812E+00      1.1944E+08      0.0000E+00                1

   TOTAL CHANGE IN CHARGE =   -5.552E+03 CODE UNITS
                              -4.916E-09 COULOMBS

   AVERAGE NET CHARGING CURRENT =   -8.193E-11 AMPERES
                                    -9.253E+01 CODE UNITS/SEC.

 CONDUCTOR CURRENTS (AMPS; POSITIVE INTO CONDUCTORS):

                                 1

 NET CURRENT(AVG DQ/DT):      1.76E-06

 CONDUCTIVITY CURRENT (NEW)
  (FROM INSULATING CELLS):    8.11E-04

 PLASMA CURRENT (INITIAL)
  (TO BARE CELLS):            4.64E-06

 REMAINDER CURRENT:          -8.14E-04
```

FLTSATCOM NASCAP Results

```
         CONTINUE CYCLE NO.    1 AT UPDATED TIME =   6.000E+01 SECONDS.
 ELAPSED:    0 01:03:50.68  CPU: 0:40:19.66  BUFIO: 352  DIRIO: 36158  FAULTS: 1828
                 QSUM = -5.5520E+03

SURFACE POTENTIALS - ALL  485 CELLS
CELL NO.
   1    1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+0
  11    1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00 -1.456E+02 -1.456E+02 -1.456E+0
  21   -3.589E+02 -1.456E+02 -3.589E+02 -1.456E+02 -3.589E+02 -1.866E+02 -3.589E+02 -1.456E+02 -1.866E+0
  31   -1.456E+02 -1.866E+02 -1.456E+02 -1.456E+02 -1.456E+02 -1.456E+02 -1.866E+02  7.831E-01 -1.866E+02  7.831E-0
  41   -9.863E+00 -1.456E+02  6.423E-01 -1.866E+02  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+0
  51    1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+0
  61    1.781E+00  1.781E+00  1.781E+00 -1.456E+02  1.781E+00  1.781E+00 -3.589E+02 -1.866E+02 -3.589E+0
  71   -3.589E+02 -3.589E+02 -3.589E+02 -1.456E+02 -1.456E+02 -1.456E+02 -1.456E+02 -1.866E+02  7.831E-0
  81    7.831E-01  1.183E+00  6.280E-01  6.005E-01 -1.842E+01  8.961E-01 -7.975E+00 -1.456E+02  1.781E+0
  91    1.781E+00  1.781E+00  1.781E+00  1.781E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+0
 101    4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+0
 111    4.717E+00  4.717E+00 -1.456E+02  1.781E+00 -1.456E+02  1.781E+00  4.717E+00  4.717E+00  4.717E+0
 121    4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  1.825E+0
 131   -3.589E+02 -3.589E+02 -3.589E+02 -3.589E+02 -1.866E+02 -3.589E+02  4.717E+00  4.717E+00  4.717E+0
 141    4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  2.098E+0
 151    4.716E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+0
 161    4.717E+00  4.717E+00  1.798E+00 -1.866E+02  4.716E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+0
 171    4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  2.252E+00  7.831E-01  1.192E+0
 181    7.861E-01  1.754E+00 -1.866E+02  6.839E-01  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+0
 191    4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  1.781E+00  1.781E+00  4.717E+0
 201    4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+0
 211    1.781E+00  1.781E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  4.717E+00  1.781E+0
 221   -1.865E+02 -1.865E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.865E+02 -1.865E+02 -1.866E+02 -1.866E+0
 231   -1.865E+02 -1.865E+02 -1.865E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.456E+0
 241   -1.456E+02  1.781E+00 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.865E+02 -1.866E+0
 251   -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02  2.252E+00 -3.589E+02 -3.589E+02 -3.589E+02 -4.214E+0
 261   -1.456E+02 -3.589E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+0
 271   -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02  1.820E+00 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+0
 281   -1.866E+02 -1.866E+02 -1.866E+02 -1.456E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02  2.248E+0
 291   -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.456E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+0
 301   -1.866E+02 -1.866E+02  2.252E+00  7.832E-01  1.194E+00  1.112E+00  1.751E+00  1.733E+00 -1.866E+0
 311   -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+0
 321   -1.866E+02 -1.866E+02  1.781E+00  1.781E+00 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+0
 331   -1.865E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.866E+02 -1.865E+02  1.781E+00  1.781E+00 -1.865E+0
 341   -1.866E+02 -1.866E+02 -1.866E+02 -1.865E+02  1.781E+00  1.781E+00 -1.456E+02  1.781E+00  1.781E+0
 351    1.781E+00  1.781E+00  1.781E+00  1.781E+00 -3.589E+02  4.404E+00 -3.589E+02 -3.589E+02 -3.589E+0
 361   -3.589E+02  3.645E+00  4.034E+00  3.645E+00  4.051E+00  3.645E+00  7.831E-01  3.077E+00  7.831E-0
 371    1.169E+00  1.675E+00 -6.716E+00  1.670E+00  7.831E-01  3.645E+00  1.781E+00  1.781E+00  1.781E+0
 381    1.781E+00  1.781E+00  1.781E+00 -1.456E+02 -1.456E+02 -1.456E+02 -3.589E+02  4.404E+00 -3.589E+0
 391   -3.589E+02  4.998E+00 -3.589E+02  3.645E+00  4.613E+00  4.717E+00  4.600E+00  3.958E+00  4.404E+0
 401    4.414E+00  3.645E+00  7.831E-01  3.439E+00  4.969E-01  2.059E+00 -3.547E+01  2.206E+00 -2.410E+0
 411    1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+0
 421    1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+0
 431    1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+0
 441    1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+0
 451    1.781E+00  1.781E+00  2.488E+00  2.773E+00  1.781E+00  1.781E+00  1.781E+00  1.781E+00  2.772E+0
 461    2.816E+00  2.772E+00  1.781E+00  2.772E+00  2.816E+00  2.815E+00  1.779E+00  1.781E+00  1.781E+0
 471    1.781E+00  2.512E+00  2.641E+00  2.248E+00  2.602E+00  2.618E+00  2.618E+00  2.618E+00  2.618E+0
 481    2.618E+00  2.618E+00  2.618E+00  2.618E+00  2.513E+00

          31 POTENTIAL ITERATIONS COMPLETED.
             RDOTR/RDRMAX=  2.27D-01/  4.17E+07
PCOND =    1.7812E+00
QCOND =    1.3265E+08
 ELAPSED:    0 01:38:28.97  CPU: 1:00:16.49  BUFIO: 360  DIRIO: 58335  FAULTS: 1838
  NEXTRA=     0

 EFPREP --    1 GRIDS OUT OF   1 READ IN.
 call to s31cor
 ELAPSED:    0 01:38:41.49  CPU: 1:00:24.12  BUFIO: 360  DIRIO: 58482  FAULTS: 1859

         BEGIN CYCLE NO.    2          TIME =   6.000E+01 SECONDS.
 ELAPSED:    0 01:38:41.89  CPU: 1:00:24.31  BUFIO: 362  DIRIO: 58485  FAULTS: 1859

 QSUMER FOUND QSUM= -5.46E+03 CODE UNITS.
       AFTER SCREENING CORRECTION (SCREENING LENGTH=  1.00E+03 M.) QSUM= -5.46E+03
                QSCALE= -5.54E+03        CORRECTED TO  -5.55E+03
                QSUM = -5.4588E+03
                PCOND =  1.781E+00
                QCOND =  1.327E+08

 ------------------------------------------------------------------------------

 EXPLICITLY CALCULATED FLUXES FOR CYCLE   2     TIME =  6.000E+01 SECONDS.
 DURING THIS TIMESTEP, NASCAP WILL TAKE INTO ACCOUNT SUCH
 ADDITIONAL EFFECTS AS SURFACE CONDUCTIVITY, DISCHARGES, EMITTER OPERATION,
 AND VARIATION OF LIMITING FACTORS FOR LOW-ENERGY EMITTED ELECTRONS.

 ------------------------------------------------------------------------------

 SURFACE CELL NO.    1                              CODE =          415067766
                                                    LOCATION =    2  9 14
                                                    NORMAL =      1  1  1
                                                    MATERIAL =  SSME ANT.
                          POTENTIAL =  1.781E+00 VOLTS
                          EXTERNAL FIELD =  1.487E+01 VOLTS/METER
                          LIMITING FACTOR =  6.104E-01
  FLUXES IN A/M**2
       INCIDENT ELECTRONS                          3.25E-06
            RESULTING SECONDARIES                  4.30E-07      [  1.05E-06]
            RESULTING BACKSCATTER                  1.79E-06
       INCIDENT PROTONS                            7.68E-08
            RESULTING SECONDARIES                  1.24E-07      [  3.01E-07]
       PHOTOCURRENT                                6.04E-06      [  1.47E-05]
                                                   ----------
     NET FLUX                                      5.17E-06

        INITIAL NET CHARGING CURRENT (WITHOUT LIMITING) =  2.54E-05 AMPERES.
        INITIAL NET CHARGING CURRENT (WITH    LIMITING) = -6.15E-06 AMPERES.
 call to s31cor
 ELAPSED:    0 01:41:29.86  CPU: 1:03:01.23  BUFIO: 365  DIRIO: 58666  FAULTS: 1862
 ELAPSED:    0 01:41:29.88  CPU: 1:03:01.25  BUFIO: 365  DIRIO: 58666  FAULTS: 1862
***LIMCEL*** LOC(BUF(1,12))=      1745314

 TOTAL CAPACITANCE TO INFINITY =    90.5 CODE UNITS:    8.01E-11 FARADS.

   ICCG --- RDOTR/RDOTR1 =   2.73E-15/  1.05E+10

 LEAVING ICCG1 -- VCTRI =  -9.578E+00

   ICCG --- RDOTR/RDOTR1 =   2.73E-15/  1.05E+10

 LEAVING ICCG1 -- VCTRI =  -9.578E+00
***WARNING*** DFDVMX NOT CALLED DUE TO PRESENCE OF HIGH CONDUCTIVITY MATERIALS.
               DELTMX=   2.23E-04 SECONDS.
***DFDVMY - CMAX=  2.54E-05 AMPS     DFDVC(1) CHANGED FROM  -6.90543E+01 TO  -1.44238E+04

   ICCG --- RDOTR/RDOTR1 =   3.03E-11/  1.04E+10

 LEAVING ICCG1 -- VCTRI =  -9.528E+00

 HIGHQ --- NUMH=  14

   ICCG --- RDOTR/RDOTR1 =   1.70E-11/  9.35E+09

 LEAVING ICCG1 -- VCTRI =  -1.170E+01

 HIGHQ --- NUMH=   2

   ICCG --- RDOTR/RDOTR1 =   2.72E-12/  7.58E+09

 LEAVING ICCG1 -- VCTRI =  -1.220E+01

 HIGHQ --- NUMH=   1

   ICCG --- RDOTR/RDOTR1 =   2.81E-19/  5.52E+09
```

FLTSATCOM NASCAP Results

```
 LEAVING ICCG1 -- VCTRI =  -1.272E+01

 HIGHQ --- NUNH=   1

   ICCG --- RDOTR/RDOTR1 =   1.34E-13/  3.31E+09

 LEAVING ICCG1 -- VCTRI =  -4.205E+01

 HIGHQ --- NUNH=   1

   ICCG --- RDOTR/RDOTR1 =   2.06E-15/  3.32E+09

 LEAVING ICCG1 -- VCTRI =  -4.200E+01

 TURNON -- NTURN=  118

 TURNON -- NTURN=  118 INCLUDING CONDUCTORS.

   ICCG --- RDOTR/RDOTR1 =   5.36E-18/  3.07E+09

 LEAVING ICCG1 -- VCTRI =   1.329E+00

  VFIX ---   33 OUT OF  364 NODES FIXED.

   ICCG --- RDOTR/RDOTR1 =   1.20E-18/  3.07E+09

 LEAVING ICCG1 -- VCTRI =   1.398E+00
 NO DISCHARGE ANALYSIS

   ICCG --- RDOTR/RDOTR1 =   1.08E-18/  2.79E+10

 LEAVING ICCG2 -- VCTRI =   2.339E+00

AVERAGE FLUXES (ONLY AVAILABLE FOR INSULATING CELLS)


NEW CONDUCTOR POTENTIALS

          VNEW              DQ            VOLD        CONDUCTOR
     2.3389E+00     1.4094E+08     1.7812E+00                1

 TOTAL CHANGE IN CHARGE =   -5.984E+03 CODE UNITS
                            -5.298E-09 COULOMBS

 AVERAGE NET CHARGING CURRENT =   -8.830E-11 AMPERES
                                  -9.973E+01 CODE UNITS/SEC.

CONDUCTOR CURRENTS (AMPS; POSITIVE INTO CONDUCTORS):

                                1

NET CURRENT(AVG DQ/DT):          2.08E-06

CONDUCTIVITY CURRENT (NEW)
 (FROM INSULATING CELLS):        1.35E-06

PLASMA CURRENT (INITIAL)
 (TO BARE CELLS):                7.16E-07

REMAINDER CURRENT:               1.71E-08
```

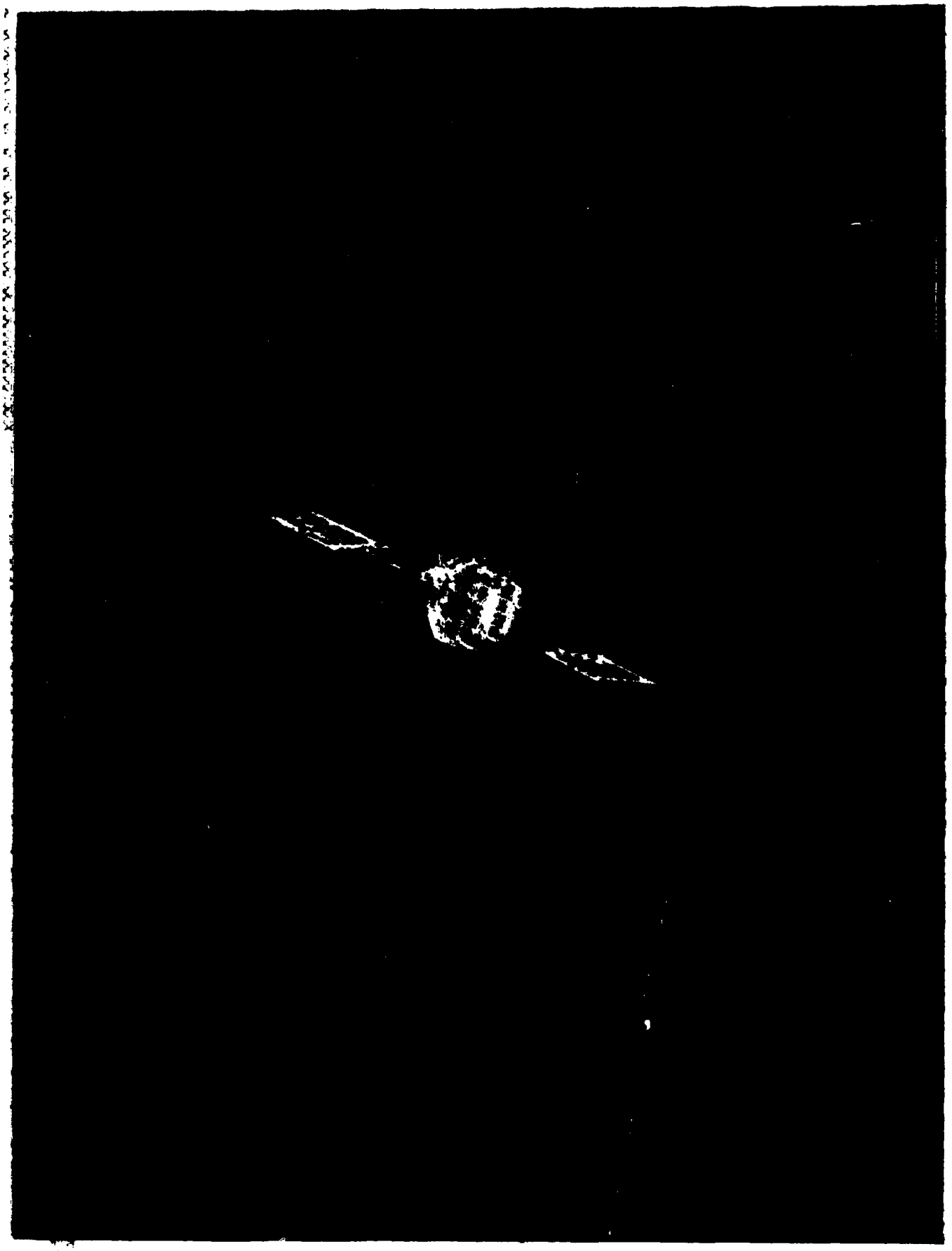
```
          CONTINUE CYCLE NO.    2 AT UPDATED TIME =   1.200E+02 SECONDS.
 ELAPSED:    0 01:46:47.44  CPU: 1:07:11.91  BUFIO: 371  DIRIO: 60425  FAULTS: 1871
                    QSUM = -1.1443E+04

SURFACE POTENTIALS - ALL  485 CELLS
CELL NO.
   1    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+0
  11    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00 -3.777E+02 -3.777E+02 -3.777E+0
  21   -7.065E+02 -2.903E+02 -7.065E+02 -2.903E+02 -7.065E+02 -3.667E+02 -7.065E+02 -2.903E+02 -3.667E+0
  31   -2.903E+02 -3.667E+02 -2.903E+02 -2.903E+02 -2.903E+02 -2.903E+02 -2.141E+00 -3.667E+02  1.416E+0
  41   -2.091E+01 -2.903E+02 -2.685E+00 -3.667E+02  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+0
  51    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+0
  61    2.339E+00  2.339E+00  2.339E+00 -3.777E+02  2.339E+00  2.339E+00 -7.065E+02 -3.667E+02 -7.065E+0
  71   -7.065E+02 -7.065E+02 -7.065E+02 -2.903E+02 -2.903E+02 -2.903E+02 -2.903E+02 -3.667E+02 -1.697E+0
  81   -5.359E+01  2.042E+00  2.179E+00  2.107E+00 -3.798E+01  2.021E+00 -1.714E+01 -2.903E+02  2.339E+0
  91    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+0
 101    2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+0
 111    2.347E+00  2.347E+00 -3.777E+02  2.339E+00 -3.777E+02  2.339E+00  2.347E+00  2.347E+00  2.347E+0
 121    2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00 -1.161E+0
 131   -7.065E+02 -7.065E+02 -7.065E+02 -7.065E+02 -3.667E+02 -7.065E+02  2.347E+00  2.347E+00  2.347E+0
 141    2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00 -7.345E+0
 151    2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+0
 161    2.347E+00  2.347E+00 -4.479E+01 -3.667E+02  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+0
 171    2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00 -4.329E+01  1.351E+00  2.161E+0
 181    2.274E+00  2.041E+00 -3.667E+02  1.253E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+0
 191    2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.339E+00  2.339E+00  2.347E+0
 201    2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+0
 211    2.339E+00  2.339E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.347E+00  2.339E+0
 221   -3.666E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+0
 231   -3.667E+02 -3.666E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.777E+0
 241   -3.777E+02  2.339E+00 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+0
 251   -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -9.683E+01 -7.065E+02 -7.065E+02 -7.065E+02 -1.134E+0
 261   -2.903E+02 -7.065E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+0
 271   -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -4.626E+01 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+0
 281   -3.667E+02 -3.667E+02 -3.667E+02 -2.903E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -1.857E+0
 291   -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -2.903E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+0
 301   -3.667E+02 -3.667E+02 -2.073E+01  1.333E+00  2.314E+00  2.423E+00  2.158E+00  2.094E+00 -3.667E+0
 311   -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+0
 321   -3.667E+02 -3.667E+02  2.339E+00  2.339E+00 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+0
 331   -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02  2.339E+00  2.339E+00 -3.667E+0
 341   -3.667E+02 -3.667E+02 -3.667E+02 -3.667E+02  2.339E+00  2.339E+00 -3.777E+02  2.339E+00  2.339E+0
 351    2.339E+00  2.339E+00  2.339E+00  2.339E+00 -7.065E+02 -1.047E+02 -7.065E+02 -7.065E+02 -7.065E+0
 361   -7.065E+02 -1.498E+02 -4.946E+01 -1.093E+02 -1.620E+01 -7.568E+01  9.644E-01 -7.324E+00 -1.080E+0
 371    2.287E+00  2.068E+00 -1.462E+01  2.057E+00  6.648E-02 -4.685E+01  2.339E+00  2.339E+00  2.339E+0
 381    2.339E+00  2.339E+00  2.339E+00 -3.777E+02 -3.777E+02 -3.777E+02 -7.065E+02 -9.995E+01 -7.065E+0
 391   -7.065E+02 -7.265E+01 -7.065E+02 -1.132E+02 -4.712E+01 -3.734E+01 -3.864E+01 -6.077E+01 -1.342E+0
 401   -1.185E+01 -2.664E+01  1.048E+00 -3.752E+00  8.659E-01  1.127E+00 -7.202E+01 -2.680E+00 -4.932E+0
 411    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+0
 421    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+0
 431    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+0
 441    2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+0
 451    2.339E+00  2.339E+00  1.206E+00  2.313E+00  2.339E+00  2.339E+00  2.339E+00  2.339E+00  2.115E+0
 461    2.133E+00  2.123E+00  2.339E+00  2.118E+00  2.120E+00  2.118E+00  2.334E+00  2.334E+00  2.334E+0
 471    2.334E+00  2.335E+00  2.336E+00  2.335E+00  2.335E+00  2.335E+00  2.335E+00  2.335E+00  2.335E+0
 481    2.335E+00  2.335E+00  2.335E+00  2.335E+00  2.335E+00

            37 POTENTIAL ITERATIONS COMPLETED.
              RDOTR/RDRMAX=  6.86D-04/  8.66E+04
PCOND =     2.3389E+00
QCOND =     2.8123E+08
 ELAPSED:    0 02:27:15.87  CPU: 1:30:51.66  BUFIO: 378  DIRIO: 86746  FAULTS: 1875
  NEXTRA=     0

 EIPREP --    1 GRIDS OUT OF    1 READ IN.
call to s31cor
 ELAPSED:    0 02:27:29.17  CPU: 1:30:59.52  BUFIO: 379  DIRIO: 86904  FAULTS: 1875
```

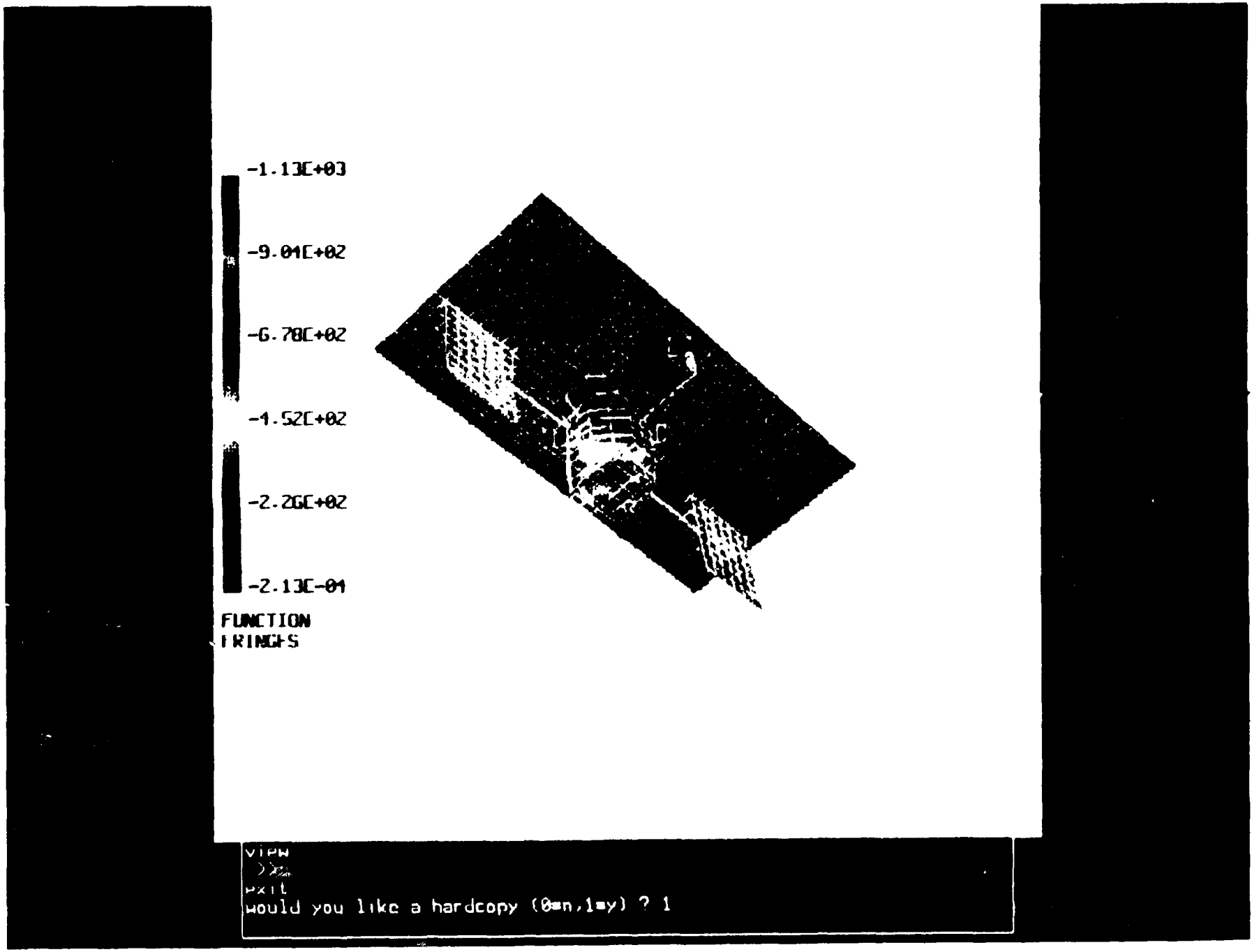
FLTSATCOM NASCAP Results

```
          BEGIN CYCLE NO.    3          TIME =   1.200E+02 SECONDS.
 ELAPSED:    0 02:27:29.59  CPU: 1:30:59.71  BUFIO: 381  DIRIO: 86907  FAULTS: 1875

  QSUMER FOUND QSUM= -1.14E+04 CODE UNITS.
         AFTER SCREENING CORRECTION (SCREENING LENGTH=  1.00E+03 M.) QSUM= -1.14E+04
                  QSCALE= -1.14E+04          CORRECTED TO  -1.14E+04
                  QSUM = -1.1432E+04
                  PCOND =  2.339E+00
                  QCOND =  2.812E+08

-------------------------------------------------------------------------------

  EXPLICITLY CALCULATED FLUXES FOR CYCLE   3      TIME =  1.200E+02 SECONDS.
  DURING THIS TIMESTEP, NASCAP WILL TAKE INTO ACCOUNT SUCH
  ADDITIONAL EFFECTS AS SURFACE CONDUCTIVITY, DISCHARGES, EMITTER OPERATION,
  AND VARIATION OF LIMITING FACTORS FOR LOW-ENERGY EMITTED ELECTRONS.

-------------------------------------------------------------------------------

  SURFACE CELL NO.    1                                  CODE =          415067766
                                                         LOCATION =    2  9 14
                                                         NORMAL =      1  1  1
                                                         MATERIAL =  SSME ANT.
                              POTENTIAL =  2.339E+00 VOLTS
                              EXTERNAL FIELD =  3.014E+01 VOLTS/METER
                              LIMITING FACTOR =   2.215E-01
   FLUXES IN A/M**2
         INCIDENT ELECTRONS                          3.29E-06
              RESULTING SECONDARIES                  2.32E-07      [  1.05E-06]
              RESULTING BACKSCATTER                  1.79E-06
         INCIDENT PROTONS                            7.68E-08
              RESULTING SECONDARIES                  6.67E-08      [  3.01E-07]
         PHOTOCURRENT                                3.26E-06      [  1.47E-05]
                                                    ----------
       NET FLUX                                      2.13E-06

          INITIAL NET CHARGING CURRENT (WITHOUT LIMITING) =  2.55E-05 AMPERES.
          INITIAL NET CHARGING CURRENT (WITH    LIMITING) = -6.41E-06 AMPERES.
  call to s3lcor
  ELAPSED:    0 02:30:17.83  CPU: 1:33:37.37  BUFIO: 384  DIRIO: 87088  FAULTS: 1875
  ELAPSED:    0 02:30:17.84  CPU: 1:33:37.39  BUFIO: 384  DIRIO: 87088  FAULTS: 1875
***LIMCEL*** LOC(BUF(1,12))=      1745314

   TOTAL CAPACITANCE TO INFINITY =    90.5 CODE UNITS;    8.01E-11 FARADS.

    ICCG --- RDOTR/RDOTR1 =   1.09E-17/  4.15E+12

  LEAVING ICCG1 -- VCTRI =  -9.884E+01

    ICCG --- RDOTR/RDOTR1 =   9.09E-18/  4.15E+12

  LEAVING ICCG1 -- VCTRI =  -9.884E+01
***WARNING*** DFDVMX NOT CALLED DUE TO PRESENCE OF HIGH CONDUCTIVITY MATERIALS.
                DELTMX=   2.23E-04 SECONDS.
***DFDVMY - CMAX=  2.55E-05 AMPS     DFDVC(1) CHANGED FROM  -6.89770E+01 TO  -1.44497E+04

    ICCG --- RDOTR/RDOTR1 =   9.10E-18/  4.12E+12

  LEAVING ICCG1 -- VCTRI =  -9.849E+01

  HIGHQ --- NUMH=  12

    ICCG --- RDOTR/RDOTR1 =   6.38E-17/  4.19E+12

  LEAVING ICCG1 -- VCTRI =  -1.008E+02

  LOWQ --- NUML=  13

    ICCG --- RDOTR/RDOTR1 =   1.35E-15/  3.47E+12

  LEAVING ICCG1 -- VCTRI =  -9.455E+01

  TURNON -- NTURN=   14

  TURNON -- NTURN=   15 INCLUDING CONDUCTORS.

    ICCG --- RDOTR/RDOTR1 =   1.14E-15/  3.46E+12

  LEAVING ICCG1 -- VCTRI =  -9.440E+01

   VFIX ---  157 OUT OF  364 NODES FIXED.

    ICCG --- RDOTR/RDOTR1 =   2.26E-14/  3.14E+12

  LEAVING ICCG1 -- VCTRI =  -8.975E+01
  NO DISCHARGE ANALYSIS

    ICCG --- RDOTR/RDOTR1 =   3.75E-18/  2.73E+10

  LEAVING ICCG2 -- VCTRI =  -8.881E+01

  AVERAGE FLUXES (ONLY AVAILABLE FOR INSULATING CELLS)


 NEW CONDUCTOR POTENTIALS

          VNEW              DQ              VOLD        CONDUCTOR
    -8.8805E+01     9.3410E+07     2.3389E+00                1

   TOTAL CHANGE IN CHARGE =   -1.381E+04 CODE UNITS
                              -1.223E-08 COULOMBS

   AVERAGE NET CHARGING CURRENT =   -2.038E-10 AMPERES
                                    -2.301E+02 CODE UNITS/SEC.

 CONDUCTOR CURRENTS (AMPS; POSITIVE INTO CONDUCTORS):

                                1

 NET CURRENT(AVG DQ/DT):        1.38E-06

 CONDUCTIVITY CURRENT (NEW)
  (FROM INSULATING CELLS):     -4.23E-05

 PLASMA CURRENT (INITIAL)
  (TO BARE CELLS):             -1.20E-07

 REMAINDER CURRENT:             4.38E-05
```

FLTSATCOM NASCAP Results

```
          CONTINUE CYCLE NO.    3 AT UPDATED TIME =   1.800E+02 SECONDS.
 ELAPSED:    0 02:35:02.36  CPU: 1:37:33.92  BUFIO: 389  DIRIO: 88456  FAULTS: 1877
                   QSUM = -2.5240E+04

SURFACE POTENTIALS - ALL  485 CELLS
CELL NO.
   1   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+0
  11   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -6.964E+02 -6.964E+02 -6.964E+0
  21   -1.131E+03 -5.233E+02 -1.131E+03 -5.233E+02 -1.131E+03 -6.291E+02 -1.131E+03 -5.233E+02 -6.291E+0
  31   -5.233E+02 -6.291E+02 -5.233E+02 -5.233E+02 -5.233E+02 -5.233E+02 -8.235E+01 -6.291E+02 -1.148E+0
  41   -1.233E+02 -5.233E+02 -8.765E+01 -6.291E+02 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+0
  51   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+0
  61   -8.881E+01 -8.881E+01 -8.881E+01 -6.094E+02 -8.881E+01 -8.881E+01 -1.131E+03 -6.291E+02 -1.131E+0
  71   -1.131E+03 -1.131E+03 -1.131E+03 -5.233E+02 -5.233E+02 -5.233E+02 -6.291E+02 -8.191E+0
  81   -1.336E+02 -8.047E+00 -5.260E+00 -5.444E+00 -1.488E+02 -8.682E+00 -1.176E+02 -5.233E+02 -8.881E+0
  91   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -1.620E+02 -1.470E+02 -1.349E+02 -1.361E+02 -1.509E+0
 101   -1.751E+02 -1.531E+02 -1.375E+02 -1.359E+02 -1.478E+02 -1.626E+02 -1.398E+02 -1.066E+02 -8.374E+0
 111   -1.087E+02 -1.449E+02 -6.964E+02 -8.881E+01 -6.094E+02 -8.881E+01 -1.491E+02 -1.109E+02 -8.568E+0
 121   -1.073E+02 -1.403E+02 -1.247E+02 -8.044E+01 -5.271E+01 -5.279E+01 -8.008E+01 -1.250E+02 -1.998E+0
 131   -1.131E+03 -1.131E+03 -1.131E+03 -1.131E+03 -6.291E+02 -1.131E+03 -1.293E+02 -8.230E+01 -5.415E+0
 141   -8.108E+01 -1.252E+02 -1.214E+02 -7.510E+01 -4.600E+01 -4.561E+01 -7.252E+01 -1.103E+02 -1.285E+0
 151   -1.146E+02 -7.473E+01 -4.696E+01 -4.688E+01 -7.573E+01 -1.219E+02 -1.211E+02 -7.469E+01 -4.541E+0
 161   -7.111E+01 -1.077E+02 -8.224E+01 -6.291E+02 -1.119E+02 -7.325E+01 -4.604E+01 -4.626E+01 -7.530E+0
 171   -1.237E+02 -7.910E+01 -5.083E+01 -5.006E+01 -7.580E+01 -1.168E+02 -7.813E+01 -2.377E-01 -3.838E+0
 181   -3.244E+00 -3.783E+00 -6.291E+02 -1.138E+02 -1.207E+02 -7.781E+01 -5.128E+01 -5.164E+01 -7.968E+0
 191   -1.376E+02 -1.038E+02 -7.988E+01 -7.906E+01 -1.0 1E+02 -1.310E+02 -8.881E+01 -8.881E+01 -1.346E+0
 201   -8.020E+01 -8.065E+01 -1.043E+02 -1.381E+02 -1.5.7E+02 -1.374E+02 -1.236E+02 -1.227E+02 -1.342E+0
 211   -8.881E+01 -8.881E+01 -1.506E+02 -1.359E+02 -1.238E+02 -1.244E+02 -1.379E+02 -1.552E+02 -8.881E+0
 221   -6.290E+02 -6.290E+02 -6.290E+02 -6.291E+02 -6.291E+02 -6.290E+02 -6.290E+02 -6.291E+02 -6.291E+0
 231   -6.290E+02 -6.290E+02 -6.290E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.964E+0
 241   -6.094E+02 -8.881E+01 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.290E+02 -6.291E+0
 251   -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -1.783E+02 -1.131E+03 -1.131E+03 -1.131E+03 -2.042E+0
 261   -5.233E+02 -1.131E+03 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+0
 271   -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -1.013E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+0
 281   -6.291E+02 -6.291E+02 -6.291E+02 -5.233E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -5.259E+0
 291   -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -5.233E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+0
 301   -6.291E+02 -6.291E+02 -5.394E+01 -6.700E-01 -1.412E+00 -8.522E+01 -1.222E+00 -1.899E+00 -6.291E+0
 311   -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.290E+02 -6.291E+02 -6.291E+0
 321   -6.291E+02 -6.291E+02 -8.881E+01 -8.881E+01 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+0
 331   -6.290E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.291E+02 -6.290E+02 -8.881E+01 -8.881E+01 -6.290E+0
 341   -6.291E+02 -6.291E+02 -6.291E+02 -6.290E+02 -8.881E+01 -8.881E+01 -6.964E+02 -8.881E+01 -8.881E+0
 351   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -1.131E+03 -1.615E+02 -1.131E+03 -1.131E+03 -1.131E+0
 361   -1.131E+03 -2.032E+02 -1.152E+02 -1.819E+02 -6.811E+01 -1.358E+02 -1.370E+01 -3.960E+01 -2.597E+0
 371   -1.700E+00 -2.493E+00 -1.139E+02 -3.455E+00 -2.330E+01 -8.957E+01 -8.881E+01 -8.881E+01 -8.881E+0
 381   -8.881E+01 -8.881E+01 -8.881E+01 -6.964E+02 -6.964E+02 -6.094E+02 -1.131E+03 -1.554E+02 -1.131E+0
 391   -1.131E+03 -1.536E+02 -1.131E+03 -1.808E+02 -1.118E+02 -1.014E+02 -1.071E+02 -1.387E+02 -6.392E+0
 401   -5.647E+01 -9.181E+01 -1.188E+01 -3.466E+01 -3.382E+00 -2.017E+01 -1.998E+02 -2.412E+01 -1.658E+0
 411   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+0
 421   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+0
 431   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+0
 441   -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+0
 451   -8.881E+01 -8.881E+01 -8.840E+01 -2.293E+00 -8.881E+01 -8.881E+01 -8.881E+01 -8.881E+01 -3.300E+0
 461   -1.825E+01 -2.233E+01 -8.881E+01 -2.748E+01 -3.032E+01 -3.563E+01 -8.879E+01 -2.472E+01 -2.755E+0
 471   -2.808E+01 -2.092E+01 -1.361E+01 -8.872E+01 -8.870E+01 -8.870E+01 -8.870E+01 -8.870E+01 -8.870E+0
 481   -8.870E+01 -8.870E+01 -8.870E+01 -8.870E+01 -8.870E+01

           29 POTENTIAL ITERATIONS COMPLETED.
             RDOTR/RDRMAX=  1.40D+00/  1.62E+08
PCOND =   -8.8805E+01
QCOND =    3.8502E+08
 ELAPSED:    0 03:08:14.50  CPU: 1:56:16.22  BUFIO: 397  DIRIO: 109251  FAULTS: 1877
  NEXTRA=     0

 EFPREP --    1 GRIDS OUT OF   1 READ IN.
 call to s31cor
 ELAPSED:    0 03:08:27.43  CPU: 1:56:24.00  BUFIO: 397  DIRIO: 109406  FAULTS: 1877

IP = 12  IR = 13  IU = 10  ISPARE = 14  IPSAVE = 10

LAST CYCLE COMPLETED IS   3.
IPSave= 10   Luns =   12  11  13  25  10  14  15  18  19  20  16  17  21  22  26  27  28
IPSave= 10   Luns =   10  11  13  25  12  14  15  18  19  20  16  17  21  22  26  27  28

IP = 10  IR = 13  IU = 12  ISPARE = 14  IPSAVE = 10
 ELAPSED:    0 03:08:31.53  CPU: 1:56:24.84  BUFIO: 397  DIRIO: 109520  FAULTS: 1880

******end
 ELAPSED:    0 03:08:31.75  CPU: 1:56:24.95  BUFIO: 398  DIRIO: 109523  FAULTS: 1880
 CLOSMS CALLED FOR ON UNIT          21

{END NASCAP}
```




-1.13E+03
-9.01E+02
-6.78E+02
-4.52E+02
-2.26E+02
-2.13E-01
FUNCTION
FRINGES
VIEW
EXIT
Would you like a hardcopy (0=n,1=y) ? 1

C.2 POLAR 1.1 MICRO SHUTTLE TEST RUN

Included in this section are the following files in order:

Old Object Definition File
Plots of MicroShuttle made using ANVIL 5000
IGES file created by ANVIL 5000 (MSHUTL.TAP)
Object Building Block File created with POLCAT (MSHUTL.OBB)
Object Definition File created by POLCAT (MSHUTL.ODF)
POLAR VEHICL, ORIENT and NTERAK Rundecks
Material plot made with SHONTL and "surfplot imat"
POLAR VEHICL, ORIENT, and NTERAK Output
Plots of Results from new stuff
- potential contours
- surface potentials

```
COMMENT    MATERIAL DEFINITIONS
COMMENT    FOR PRESENT PURPOSES, ALL PROPERTIES ARE 'KAPTON'
FRSI
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
HRSI
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
LRSI
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
LESS
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
COMMENT THIN PLATE ALONG SHUTTLE BOTTOM TO
COMMENT SPECIFY BOTTOM AS TOP
PLATE
CORNER -1,-2,-5
DELTAS 2,0,10
BOTTOM +Y FRSI
TOP -Y HRSI
ENDOBJ
COMMENT FRONT END OF FUSELAGE
RECTAN
CORNER -1,-2,3
DELTAS 2,1,2
SURFACE +X FRSI
SURFACE -X FRSI
SURFACE -Y HRSI
SURFACE -Z FRSI
ENDOBJ
WEDGE
CORNER 0,-1,3
FACE FRSI -1,1,0
LENGTH 1,1,2
SURFACE -Z FRSI
ENDOBJ
WEDGE
CORNER 0,-1,3
FACE FRSI 1,1,0
LENGTH 1,1,2
SURFACE -Z FRSI
ENDOBJ
TETRAH
CORNER 0,-1,5
FACE LRSI -1,1,1
LENGTH 1
ENDOBJ
TETRAH
CORNER 0,-1,5
FACE LRSI 1,1,1
LENGTH 1
```

```
ENDOBJ
WEDGE
CORNER 0,-2,5
FACE LESS 1,0,1
LENGTH 1,1,1
SURFACE +Y LESS
SURFACE -Y LESS
ENDOBJ
WEDGE
CORNER 0,-2,5
FACE LESS -1,0,1
LENGTH 1,1,1
SURFACE +Y LESS
SURFACE -Y LESS
ENDOBJ
COMMENT CARGO BAY
WEDGE
CORNER -1,-2,-3
FACE FRSI 1,1,0
LENGTH 1,1,6
SURFACE -Y HRSI
SURFACE -X FRSI
ENDOBJ
WEDGE
CORNER 1,-2,-3
FACE FRSI -1,1,0
LENGTH 1,1,6
SURFACE -Y HRSI
SURFACE +X FRSI
ENDOBJ
WEDGE
CORNER -1,-2,-5
FACE FRSI -1,1,0
LENGTH 1,1,8
SURFACE -Y HRSI
SURFACE -Z AQUA
ENDOBJ
WEDGE
CORNER 1,-2,-5
FACE FRSI 1,1,0
LENGTH 1,1,8
SURFACE -Y HRSI
SURFACE -Z AQUA
ENDOBJ
TETRAH
CORNER -1,-2,3
FACE FRSI -1,1,1
LENGTH 1
SURFACE -Y HRSI
ENDOBJ
TETRAH
CORNER 1,-2,3
FACE FRSI 1,1,1
LENGTH 1
SURFACE -Y HRSI
ENDOBJ
```

```
COMMENT CARGO BAY DOORS...OPEN
SLANT
CORNER -1,0,-3
TOP FRSI -1 -1 0
BOTTOM KAPTON
LENGTH 1,1,6
ENDOBJ
SLANT
CORNER 1,0,-3
TOP FRSI 1 -1 0
BOTTOM KAPTON
LENGTH 1,1,6
ENDOBJ
COMMENT TAIL SECTION
RECTAN
CORNER -1,-2,-5
DELTAS 2,2,2
SURFACE +X FRSI
SURFACE -X FRSI
SURFACE +Y FRSI
SURFACE -Y HRSI
SURFACE +Z FRSI
SURFACE -Z AQUA
ENDOBJ
RECTAN
CORNER -1,-1,-4
DELTAS 2,1,1
SURFACE +X LRSI
SURFACE -X LRSI
SURFACE +Y LRSI
SURFACE +Z LRSI
ENDOBJ
COMMENT TAIL RUDDER
PLATE
CORNER 0,0,-5
DELTAS 0,1,2
TOP +X LRSI
BOTTOM -X LRSI
ENDOBJ
PLATE
CORNER 0,1,-5
DELTAS 0,1,1
TOP +X LRSI
BOTTOM -X LRSI
ENDOBJ
COMMENT WINGS
COMMENT PORT WING
PLATE
CORNER -4,-2,-5
DELTAS 3,0,2
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
PLATE
CORNER -3,-2,-3
DELTAS 2,0,2
```

```
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
COMMENT STARTBOARD WING
PLATE
CORNER 1,-2,-5
DELTAS 3,0,2
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
PLATE
CORNER 1,-2,-3
DELTAS 2,0,2
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
ENDSAT
```

SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE POSITIVE X DIRECTION

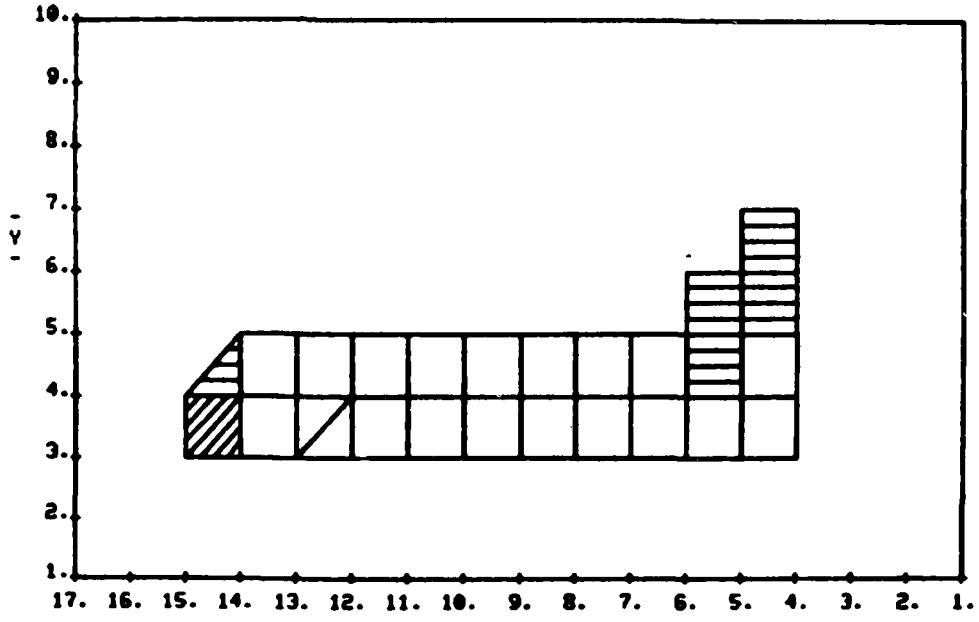
FOR X VALUES BETWEEN 1 AND 17

MATERIAL LEGEND

1 FRSI

3 LRSI

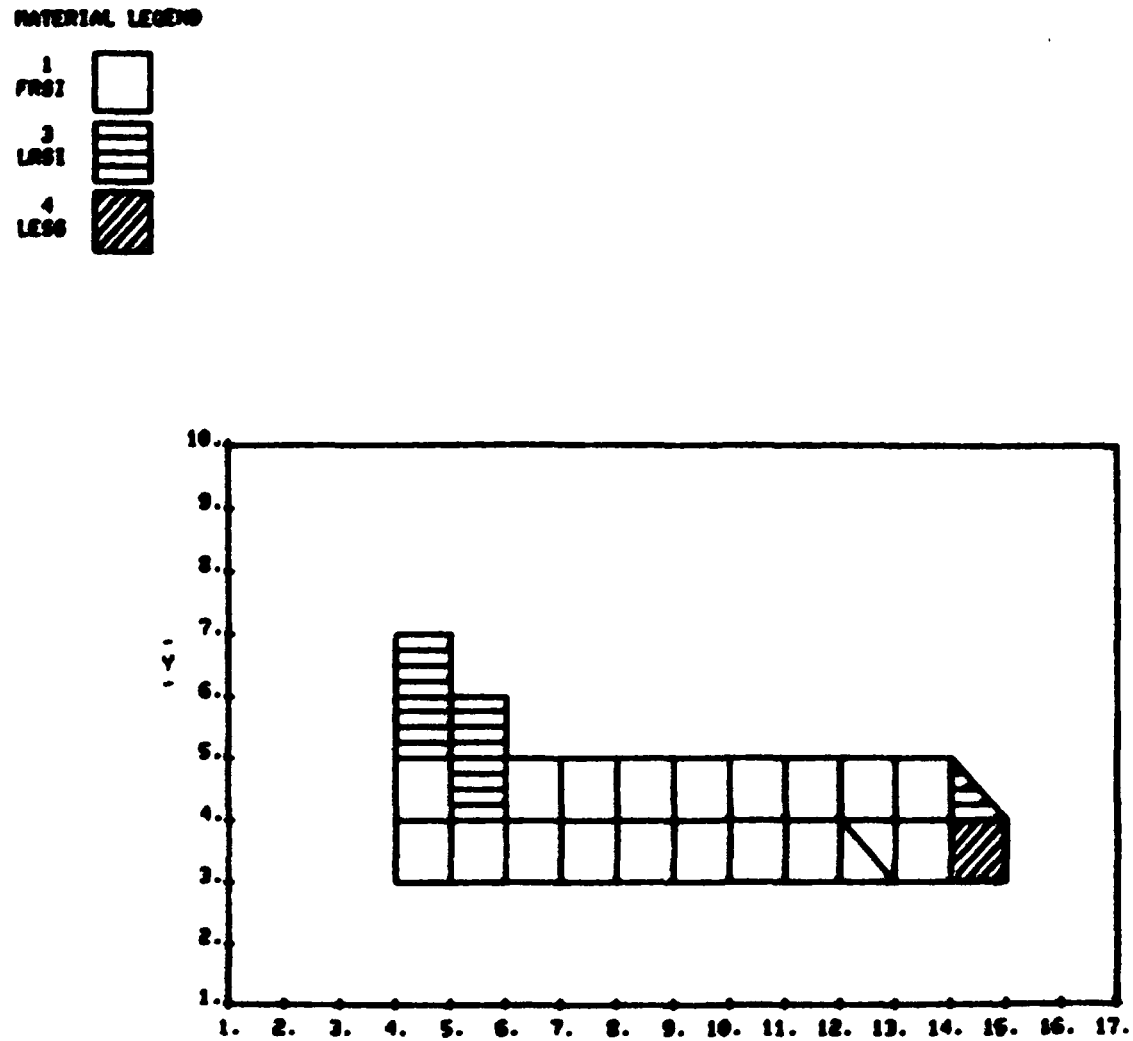
4 LESS



-Z-

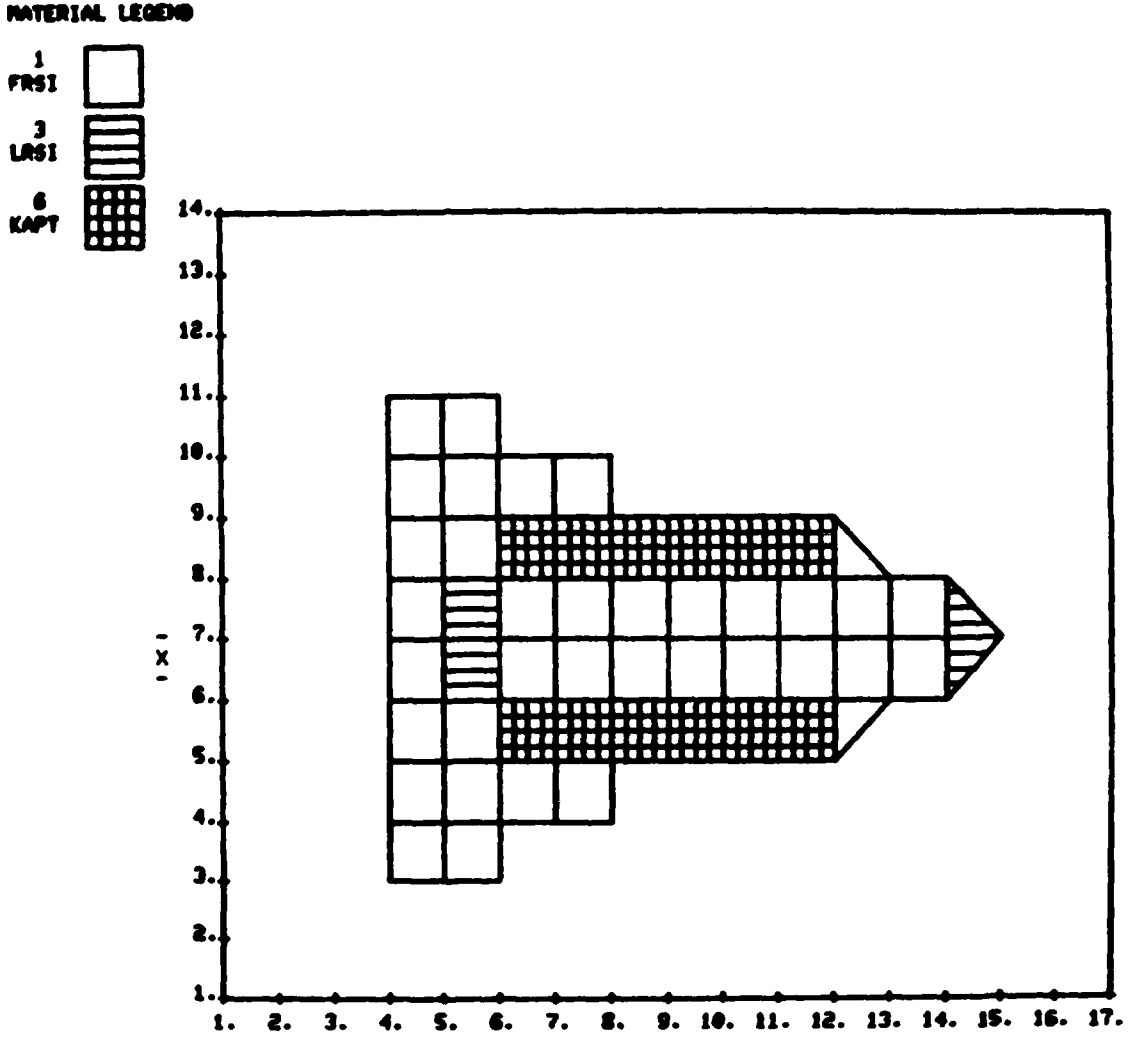
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE NEGATIVE X DIRECTION

FOR X VALUES BETWEEN 1 AND 17



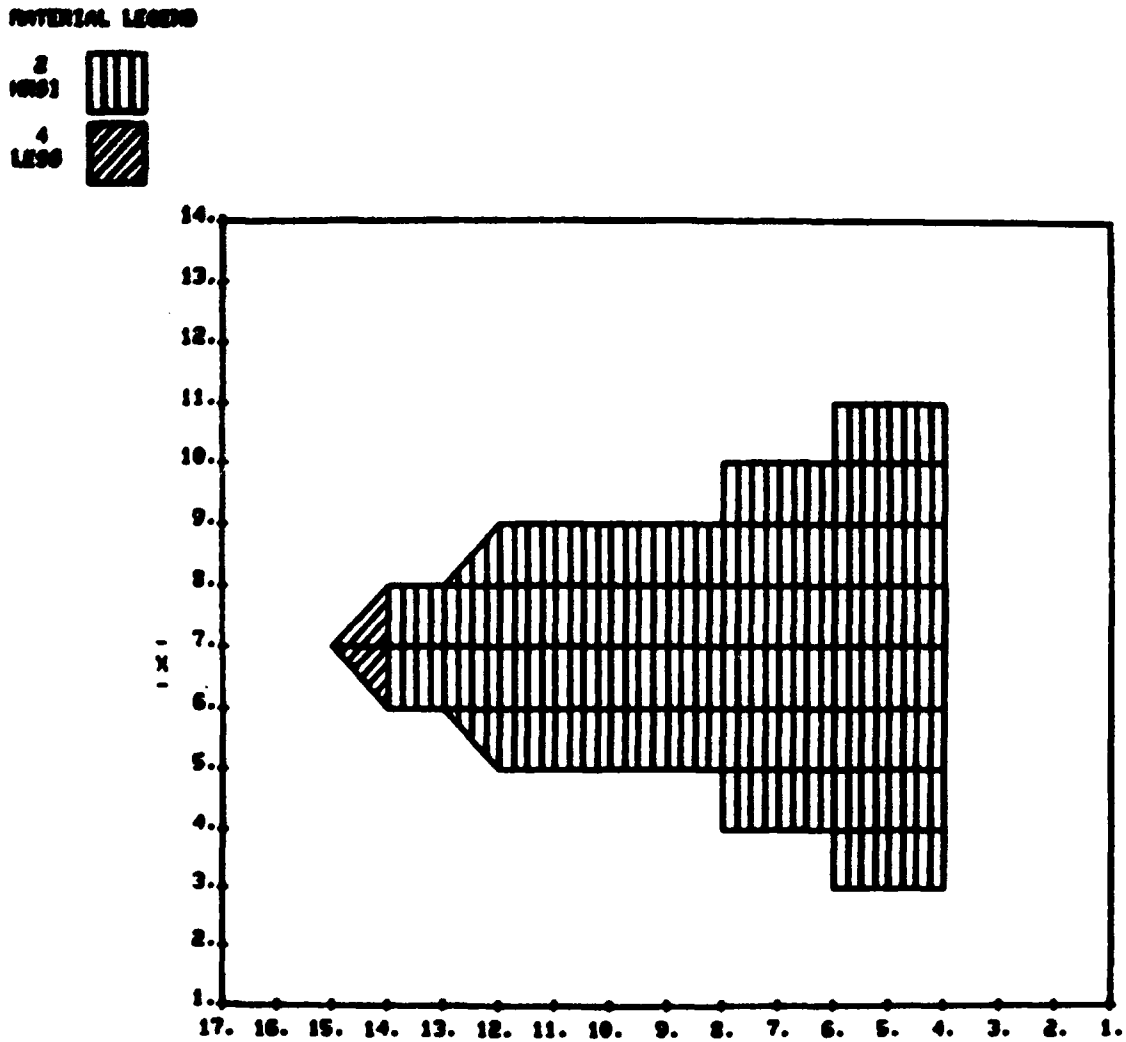
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE POSITIVE Y DIRECTION

FOR Y VALUES BETWEEN 1 AND 17



SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE NEGATIVE Y DIRECTION

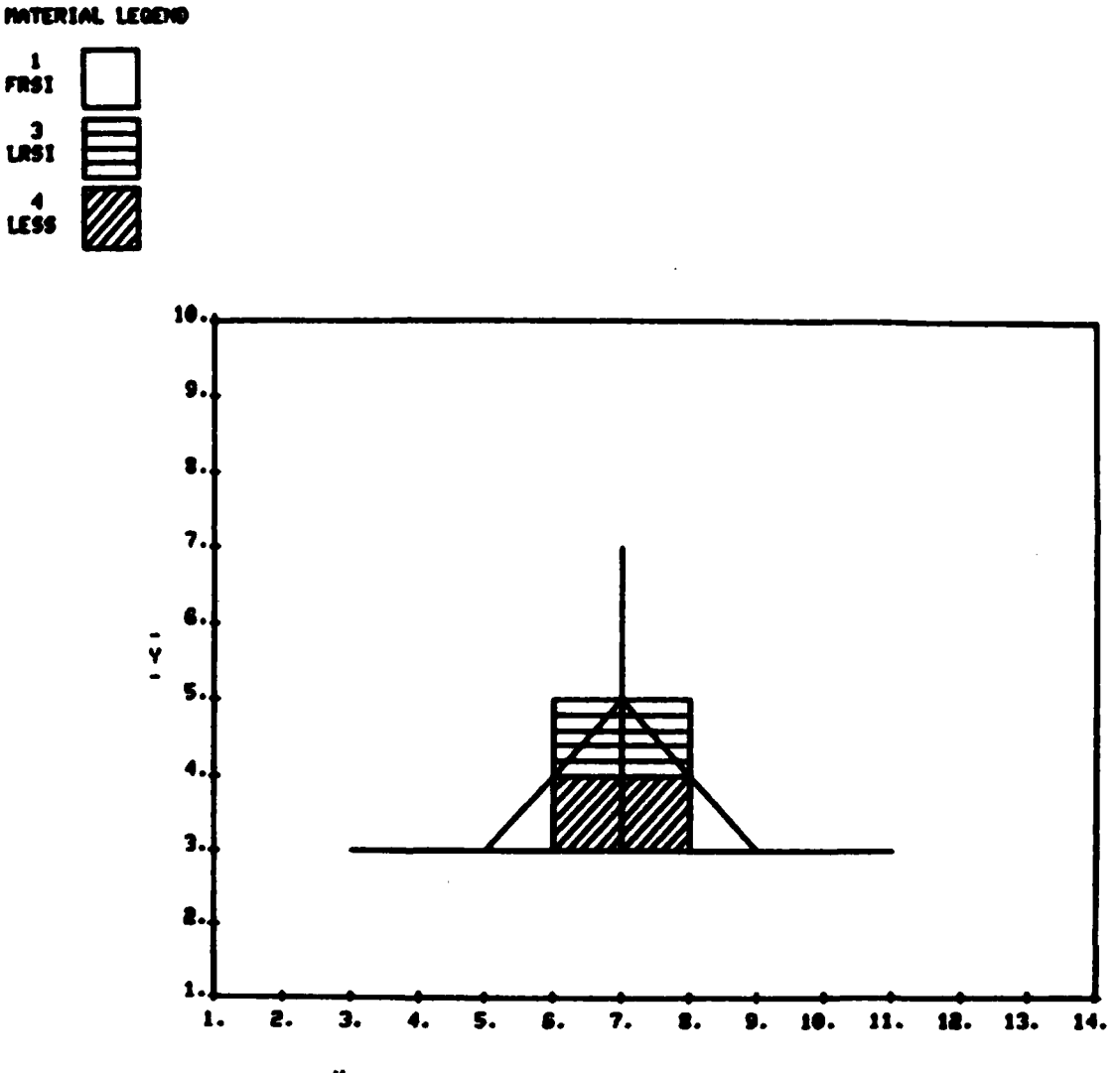
FOR Y VALUES BETWEEN 1 AND 17



-Z-

SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE POSITIVE Z DIRECTION

FOR Z VALUES BETWEEN 1 AND 33

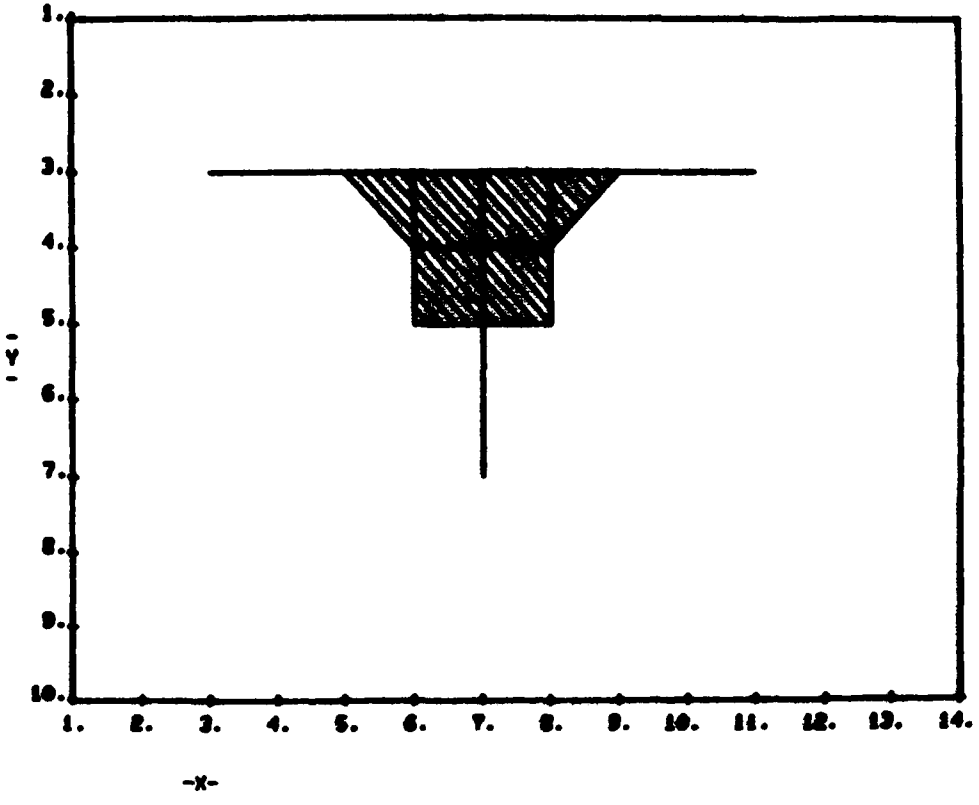


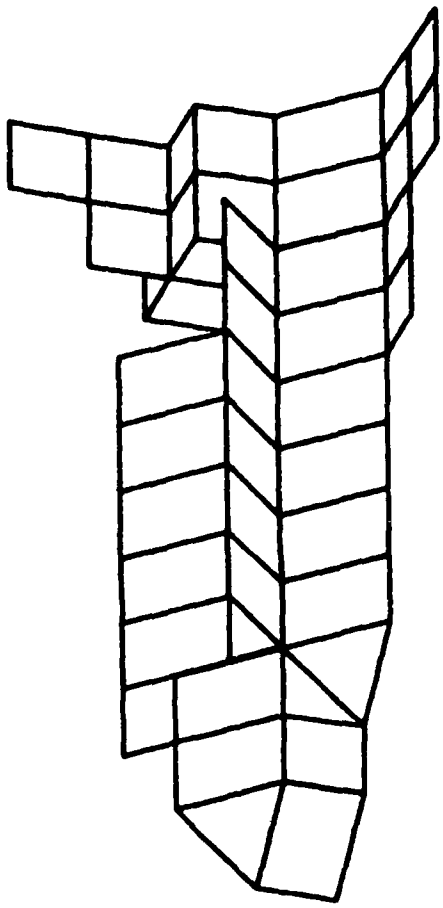
SURFACE CELL MATERIAL COMPOSITION AS VIEWED FROM THE NEGATIVE Z DIRECTION

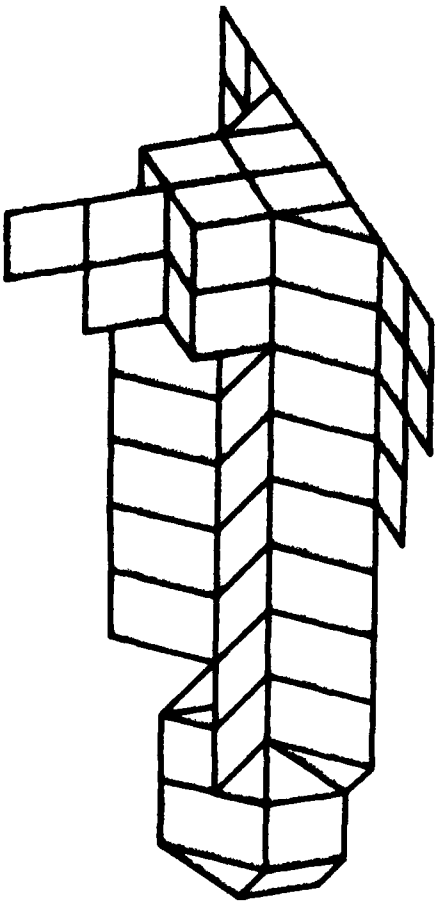
FOR Z VALUES BETWEEN 1 AND 30

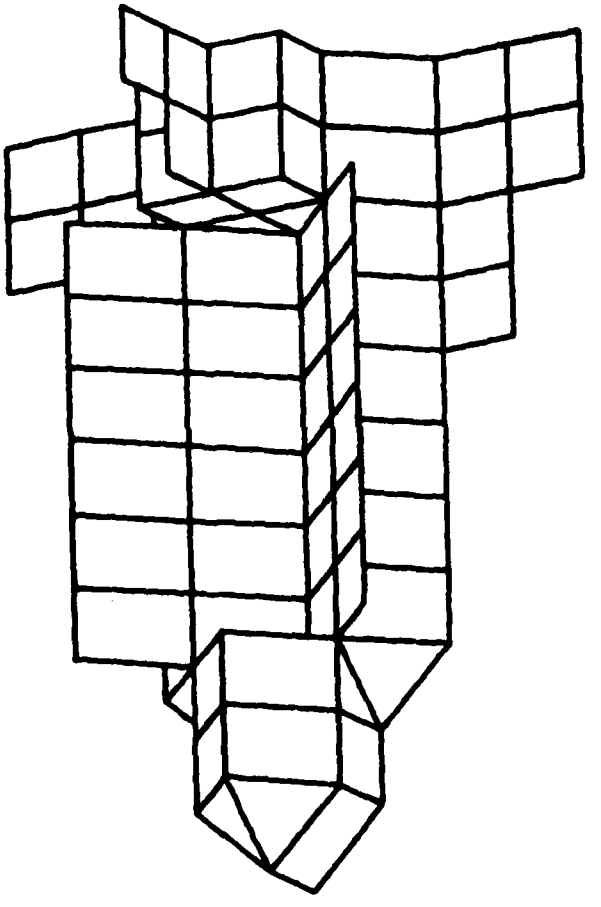
MATERIAL LEGEND

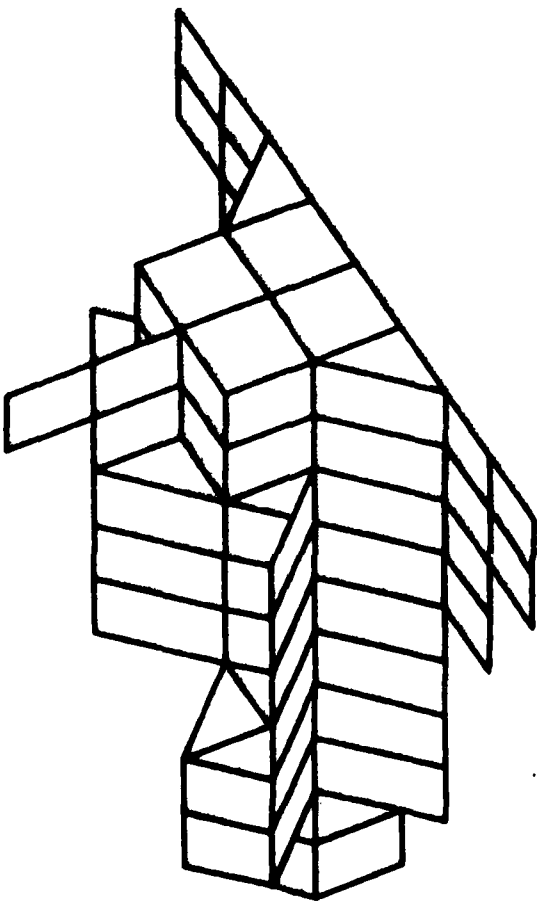
5 AQUA











Micro Shuttle IGES File Description: MSHUTL.TAP

```
IGES CONSTRUCTION OF  MCSHUTTLE.PRT                                    S0000001
,,13HMCSHUTTLE.PRT,,24HANVIL-5000, REL 1, REV 0,,32,8,23,11,52,,1.,1,4HIG0000001
NCH,0,,13H877724.124500,,,,;                                           G0000002
     124       1       1                          0        000100  D0000001
     124                       1                                    D0000002
     410       2       1                          1        000100  D0000003
     410                       1                                    D0000004
     124       3       1                          0        000100  D0000005
     124                       1                                    D0000006
     410       4       1                          5        000100  D0000007
     410                       1                                    D0000008
     124       5       1                          0        000100  D0000009
     124                       1                                    D0000010
     410       6       1                          9        000100  D0000011
     410                       1                                    D0000012
     124       7       1                          0        000100  D0000013
     124                       2                                    D0000014
     410       9       1                         13        000100  D0000015
     410                       1                                    D0000016
     124      10       1                          0        000100  D0000017
     124                       1                                    D0000018
     410      11       1                         17        000100  D0000019
     410                       1                                    D0000020
     124      12       1                          0        000100  D0000021
     124                       1                                    D0000022
     410      13       1                         21        000100  D0000023
     410                       1                                    D0000024
     124      14       1                          0        000100  D0000025
     124                       1                                    D0000026
     410      15       1                         25        000100  D0000027
     410                       1                                    D0000028
     124      16       1                          0        000100  D0000029
     124                       2                                    D0000030
     410      18       1                         29        000100  D0000031
     410                       1                                    D0000032
     124      19       1                          0        000100  D0000033
     124                       3                                    D0000034
     410      22       1                         33        000100  D0000035
     410                       1                                    D0000036
     124      23       1                          0        000100  D0000037
     124                       3                                    D0000038
     410      26       1                         37        000100  D0000039
     410                       1                                    D0000040
     124      27       1                          0        000100  D0000041
     124                       3                                    D0000042
     410      30       1                         41        000100  D0000043
     410                       1                                    D0000044
     116      31       2       1     104          0        00000000D0000045
     116       0       0       1                    SURF(4)         D0000046
     110      32       2       1     104          0        00010000D0000047
     110       0       0       2                                    D0000048
     110      34       2       1     104          0        00010000D0000049
     110       0       0       2                                    D0000050
     118      36       2       1       3          0        00000000D0000051
     118       0       1       1       1            SURF(5)         D0000052
     110      37       2       1       3          0        00010000D0000053
     110       0       1       2                                    D0000054
     110      39       2       1       3          0        00010000D0000055
     110       0       1       2                                    D0000056
     118      41       2       1       0          0        00000000D0000057
     118       0       0       1       1            SURF(6)         D0000058
     116      42       2       1     101          0        00000000D0000059
     116       0       0       1                    SURF(7)         D0000060
     110      43       2       1     101          0        00010000D0000061
```

```
110      0      0      2                                        D0000062
110     45      2      1    101          0        00010000D0000063
110      0      0      2                                        D0000064
118     47      2      1      5          0        00000000D0000065
118      0      4      1      1            SURF(8)              D0000066
110     48      2      1      5          0        00010000D0000067
110      0      4      2                                        D0000068
110     50      2      1      5          0        00010000D0000069
110      0      4      2                                        D0000070
118     52      2      1      5          0        00000000D0000071
118      0      4      1      1            SURF(9)              D0000072
110     53      2      1      5          0        00010000D0000073
110      0      4      2                                        D0000074
110     55      2      1      5          0        00010000D0000075
110      0      4      2                                        D0000076
118     57      2      1      1          0        00000000D0000077
118      0      0      1      1            SURF(10)             D0000078
110     58      2      1      1          0        00010000D0000079
110      0      0      2                                        D0000080
110     60      2      1      1          0        00010000D0000081
110      0      0      2                                        D0000082
118     62      2      1      1          0        00000000D0000083
118      0      0      1      1            SURF(11)             D0000084
110     63      2      1      1          0        00010000D0000085
110      0      0      2                                        D0000086
110     65      2      1      1          0        00010000D0000087
110      0      0      2                                        D0000088
118     67      2      1      1          0        00000000D0000089
118      0      0      1      1            SURF(12)             D0000090
116     68      2      1    101          0        00000000D0000091
116      0      0      1                   SURF(13)             D0000092
110     69      2      1    101          0        00010000D0000093
110      0      0      2                                        D0000094
110     71      2      1    101          0        00010000D0000095
110      0      0      2                                        D0000096
118     73      2      1      3          0        00000000D0000097
118      0      2      1      1            SURF(14)             D0000098
110     74      2      1      3          0        00010000D0000099
110      0      2      2                                        D0000100
110     76      2      1      3          0        00010000D0000101
110      0      2      2                                        D0000102
118     78      2      1      3          0        00000000D0000103
118      0      2      1      1            SURF(15)             D0000104
110     79      2      1      3          0        00010000D0000105
110      0      2      2                                        D0000106
110     81      2      1      3          0        00010000D0000107
110      0      2      2                                        D0000108
118     83      2      1      3          0        00000000D0000109
118      0      2      1      1            SURF(16)             D0000110
110     84      2      1      3          0        00010000D0000111
110      0      2      2                                        D0000112
110     86      2      1      3          0        00010000D0000113
110      0      2      2                                        D0000114
118     88      2      1      3          0        00000000D0000115
118      0      2      1      1            SURF(17)             D0000116
116     89      2      1      3          0        00000000D0000117
116      0      2      1                                        D0000118
116     90      2      1      3          0        00000000D0000119
116      0      2      1                                        D0000120
116     91      2      1      3          0        00000000D0000121
116      0      2      1                                        D0000122
116     92      2      1      3          0        00000000D0000123
116      0      2      1                                        D0000124
116     93      2      1      3          0        00000000D0000125
```

```
116      0      2      1                                    D0000126
116     94      2      1      3          0        00000000D0000127
116      0      2      1                                    D0000128
116     95      2      1      3          0        00000000D0000129
116      0      2      1                                    D0000130
116     96      2      1      3          0        00000000D0000131
116      0      2      1                                    D0000132
116     97      2      1    101          0        00000000D0000133
116      0      0      1                  SURF(18)          D0000134
110     98      2      1    101          0        00010000D0000135
110      0      0      2                                    D0000136
110    100      2      1    101          0        00010000D0000137
110      0      0      2                                    D0000138
118    102      2      1      3          0        00000000D0000139
118      0      2      1      1           SURF(19)          D0000140
110    103      2      1      3          0        00010000D0000141
110      0      2      2                                    D0000142
110    105      2      1      3          0        00010000D0000143
110      0      2      2                                    D0000144
118    107      2      1      3          0        00000000D0000145
118      0      2      1      1           SURF(20)          D0000146
110    108      2      1      3          0        00010000D0000147
110      0      2      2                                    D0000148
110    110      2      1      3          0        00010000D0000149
110      0      2      2                                    D0000150
118    112      2      1      1          0        00000000D0000151
118      0      0      1      1           SURF(21)          D0000152
110    113      2      1      1          0        00010000D0000153
110      0      0      2                                    D0000154
110    115      2      1      1          0        00010000D0000155
110      0      0      2                                    D0000156
118    117      2      1      1          0        00000000D0000157
118      0      0      1      1           SURF(22)          D0000158
110    118      2      1      1          0        00010000D0000159
110      0      0      2                                    D0000160
110    120      2      1      1          0        00010000D0000161
110      0      0      2                                    D0000162
118    122      2      1      2          0        00000000D0000163
118      0      1      1      1           SURF(23)          D0000164
116    123      2      1    104          0        00000000D0000165
116      0      0      1                  SURF(24)          D0000166
110    124      2      1    104          0        00010000D0000167
110      0      0      2                                    D0000168
110    126      2      1    104          0        00010000D0000169
110      0      0      2                                    D0000170
118    128      2      1      3          0        00000000D0000171
118      0      2      1      1           SURF(25)          D0000172
110    129      2      1      3          0        00010000D0000173
110      0      2      2                                    D0000174
110    131      2      1      3          0        00010000D0000175
110      0      2      2                                    D0000176
118    133      2      1      0          0        00000000D0000177
118      0      2      1      1           SURF(26)          D0000178
116    134      2      1    104          0        00000000D0000179
116      0      0      1                  SURF(27)          D0000180
110    135      2      1    104          0        00010000D0000181
110      0      0      2                                    D0000182
110    137      2      1    104          0        00010000D0000183
110      0      0      2                                    D0000184
118    139      2      1      3          0        00000000D0000185
118      0      2      1      1           SURF(28)          D0000186
110    140      2      1      3          0        00010000D0000187
110      0      2      2                                    D0000188
110    142      2      1      3          0        00010000D0000189
```

```
110      0      2      2                                    D0000190
118    144      2      1      0          0        00000000D0000191
118      0      2      1      1           SURF(29)         D0000192
116    145      2      1    102          0        00000000D0000193
116      0      0      1                  SURF(30)         D0000194
110    146      2      1    102          0        00010000D0000195
110      0      0      2                                    D0000196
110    148      2      1    102          0        00010000D0000197
110      0      0      2                                    D0000198
118    150      2      1      1          0        00000000D0000199
118      0      0      1      1           SURF(31)         D0000200
110    151      2      1      1          0        00010000D0000201
110      0      0      2                                    D0000202
110    153      2      1      1          0        00010000D0000203
110      0      0      2                                    D0000204
118    155      2      1      2          0        00000000D0000205
118      0      1      1      1           SURF(32)         D0000206
110    156      2      1      2          0        00010000D0000207
110      0      1      2                                    D0000208
110    158      2      1      2          0        00010000D0000209
110      0      1      2                                    D0000210
118    160      2      1      1          0        00000000D0000211
118      0      0      1      1           SURF(33)         D0000212
110    161      2      1      1          0        00010000D0000213
110      0      0      2                                    D0000214
110    163      2      1      1          0        00010000D0000215
110      0      0      2                                    D0000216
118    165      2      1      1          0        00000000D0000217
118      0      0      1      1           SURF(34)         D0000218
110    166      2      1      1          0        00010000D0000219
110      0      0      2                                    D0000220
110    168      2      1      1          0        00010000D0000221
110      0      0      2                                    D0000222
118    170      2      1      1          0        00000000D0000223
118      0      0      1      1           SURF(35)         D0000224
116    171      2      1    102          0        00000000D0000225
116      0      0      1                  SURF(36)         D0000226
110    172      2      1    102          0        00010000D0000227
110      0      0      2                                    D0000228
110    174      2      1    102          0        00010000D0000229
110      0      0      2                                    D0000230
118    176      2      1      1          0        00000000D0000231
118      0      0      1      1           SURF(37)         D0000232
110    177      2      1      1          0        00010000D0000233
110      0      0      2                                    D0000234
110    179      2      1      1          0        00010000D0000235
110      0      0      2                                    D0000236
118    181      2      1      2          0        00000000D0000237
118      0      1      1      1           SURF(38)         D0000238
110    182      2      1      2          0        00010000D0000239
110      0      1      2                                    D0000240
110    184      2      1      2          0        00010000D0000241
110      0      1      2                                    D0000242
118    186      2      1      1          0        00000000D0000243
118      0      0      1      1           SURF(39)         D0000244
110    187      2      1      1          0        00010000D0000245
110      0      0      2                                    D0000246
110    189      2      1      1          0        00010000D0000247
110      0      0      2                                    D0000248
118    191      2      1      1          0        00000000D0000249
118      0      0      1      1           SURF(40)         D0000250
110    192      2      1      1          0        00010000D0000251
110      0      0      2                                    D0000252
110    194      2      1      1          0        00010000D0000253
```

```
110       0       0       2                                       D0000254
118     196       2       1       1               0       00000000D0000255
118       0       0       1       1                SURF(41)       D0000256
116     197       2       1     104               0       00000000D0000257
116       0       0       1                         SURF(1)       D0000258
110     198       2       1     104               0       00010000D0000259
110       0       0       2                                       D0000260
110     200       2       1     104               0       00010000D0000261
110       0       0       2                                       D0000262
118     202       2       1       3               0       00000000D0000263
118       0       1       1       1                 SURF(2)       D0000264
110     203       2       1       3               0       00010000D0000265
110       0       1       2                                       D0000266
110     205       2       1       3               0       00010000D0000267
110       0       1       2                                       D0000268
118     207       2       1       0               0       00000000D0000269
118       0       0       1       1                 SURF(3)       D0000270
116     208       2       1     102               0       00000000D0000271
116       0       0       1                        SURF(42)       D0000272
110     209       2       1     102               0       00010000D0000273
110       0       0       2                                       D0000274
110     211       2       1     102               0       00010000D0000275
110       0       0       2                                       D0000276
118     213       2       1       1               0       00000000D0000277
118       0       0       1       1                SURF(43)       D0000278
110     214       2       1       1               0       00010000D0000279
110       0       0       2                                       D0000280
110     216       2       1       1               0       00010000D0000281
110       0       0       2                                       D0000282
118     218       2       1       2               0       00000000D0000283
118       0       1       1       1                SURF(44)       D0000284
110     219       2       1       2               0       00010000D0000285
110       0       1       2                                       D0000286
110     221       2       1       2               0       00010000D0000287
110       0       1       2                                       D0000288
118     223       2       1       1               0       00000000D0000289
118       0       0       1       1                SURF(45)       D0000290
110     224       2       1       1               0       00010000D0000291
110       0       0       2                                       D0000292
110     226       2       1       1               0       00010000D0000293
110       0       0       2                                       D0000294
118     228       2       1       1               0       00000000D0000295
118       0       0       1       1                SURF(46)       D0000296
110     229       2       1       1               0       00010000D0000297
110       0       0       2                                       D0000298
110     231       2       1       1               0       00010000D0000299
110       0       0       2                                       D0000300
118     233       2       1       1               0       00000000D0000301
118       0       0       1       1                SURF(47)       D0000302
116     234       2       1     102               0       00000000D0000303
116       0       0       1                        SURF(48)       D0000304
110     235       2       1     102               0       00010000D0000305
110       0       0       2                                       D0000306
110     237       2       1     102               0       00010000D0000307
110       0       0       2                                       D0000308
118     239       2       1       1               0       00000000D0000309
118       0       0       1       1                SURF(49)       D0000310
110     240       2       1       1               0       00010000D0000311
110       0       0       2                                       D0000312
110     242       2       1       1               0       00010000D0000313
110       0       0       2                                       D0000314
118     244       2       1       2               0       00000000D0000315
118       0       1       1       1                SURF(50)       D0000316
110     245       2       1       2               0       00010000D0000317
```

```
110      0      1      2                                          D0000318
110    247      2      1      2                 0        00010000D0000319
110      0      1      2                                          D0000320
118    249      2      1      1                 0        00000000D0000321
118      0      0      1      1                  SURF(51)         D0000322
110    250      2      1      1                 0        00010000D0000323
110      0      0      2                                          D0000324
110    252      2      1      1                 0        00010000D0000325
110      0      0      2                                          D0000326
118    254      2      1      1                 0        00000000D0000327
118      0      0      1      1                  SURF(52)         D0000328
110    255      2      1      1                 0        00010000D0000329
110      0      0      2                                          D0000330
110    257      2      1      1                 0        00010000D0000331
110      0      0      2                                          D0000332
118    259      2      1      1                 0        00000000D0000333
118      0      0      1      1                  SURF(53)         D0000334
110    260      2      1      1                 0        00010000D0000335
110      0      0      2                                          D0000336
110    262      2      1      1                 0        00010000D0000337
110      0      0      2                                          D0000338
116    264      2      1    105                 0        00000000D0000339
116      0      0      1                         SURF(54)         D0000340
118    265      2      1      4                 0        00000000D0000341
118      0      5      1      1                  SURF(55)         D0000342
118    266      2      1      3                 0        00000000D0000343
118      0      0      1      1                  SURF(56)         D0000344
110    267      2      1      3                 0        00010000D0000345
110      0      0      2                                          D0000346
110    269      2      1      3                 0        00010000D0000347
110      0      0      2                                          D0000348
116    271      2      1    105                 0        00000000D0000349
116      0      0      1                         SURF(57)         D0000350
118    272      2      1      4                 0        00000000D0000351
118      0      5      1      1                  SURF(58)         D0000352
118    273      2      1      3                 0        00000000D0000353
118      0      0      1      1                  SURF(59)         D0000354
116    274      2      1    102                 0        00000000D0000355
116      0      0      1                         SURF(60)         D0000356
110    275      2      1    102                 0        00010000D0000357
110      0      0      2                                          D0000358
110    277      2      1    102                 0        00010000D0000359
110      0      0      2                                          D0000360
118    279      2      1      1                 0        00000000D0000361
118      0      0      1      1                  SURF(61)         D0000362
110    280      2      1      1                 0        00010000D0000363
110      0      0      2                                          D0000364
110    282      2      1      1                 0        00010000D0000365
110      0      0      2                                          D0000366
118    284      2      1      1                 0        00000000D0000367
118      0      0      1      1                  SURF(62)         D0000368
110    285      2      1      1                 0        00010000D0000369
110      0      0      2                                          D0000370
110    287      2      1      1                 0        00010000D0000371
110      0      0      2                                          D0000372
118    289      2      1      1                 0        00000000D0000373
118      0      0      1      1                  SURF(63)         D0000374
110    290      2      1      1                 0        00010000D0000375
110      0      0      2                                          D0000376
110    292      2      1      1                 0        00010000D0000377
110      0      0      2                                          D0000378
118    294      2      1      1                 0        00000000D0000379
118      0      0      1      1                  SURF(64)         D0000380
110    295      2      1      1                 0        00010000D0000381
```

```
110      0      0      2                                          D0000382
110    297      2      1      1                 0        00010000D0000383
110      0      0      2                                          D0000384
118    299      2      1      1                 0        00000000D0000385
118      0      0      1      1                  SURF(65)         D0000386
116    300      2      1    102                 0        00000000D0000387
116      0      0      1                         SURF(66)         D0000388
110    301      2      1    102                 0        00010000D0000389
110      0      0      2                                          D0000390
110    303      2      1    102                 0        00010000D0000391
110      0      0      2                                          D0000392
118    305      2      1      1                 0        00000000D0000393
118      0      0      1      1                  SURF(67)         D0000394
110    306      2      1      1                 0        00010000D0000395
110      0      0      2                                          D0000396
110    308      2      1      1                 0        00010000D0000397
110      0      0      2                                          D0000398
118    310      2      1      1                 0        00000000D0000399
118      0      0      1      1                  SURF(68)         D0000400
110    311      2      1      1                 0        00010000D0000401
110      0      0      2                                          D0000402
110    313      2      1      1                 0        00010000D0000403
110      0      0      2                                          D0000404
118    315      2      1      1                 0        00000000D0000405
118      0      0      1      1                  SURF(69)         D0000406
110    316      2      1      1                 0        00010000D0000407
110      0      0      2                                          D0000408
110    318      2      1      1                 0        00010000D0000409
110      0      0      2                                          D0000410
118    320      2      1      1                 0        00000000D0000411
118      0      0      1      1                  SURF(70)         D0000412
110    321      2      1      1                 0        00010000D0000413
110      0      0      2                                          D0000414
110    323      2      1      1                 0        00010000D0000415
110      0      0      2                                          D0000416
118    325      2      1      1                 0        00000000D0000417
118      0      0      1      1                  SURF(71)         D0000418
116    326      2      1    102                 0        00000000D0000419
116      0      0      1                         SURF(72)         D0000420
110    327      2      1    102                 0        00010000D0000421
110      0      0      2                                          D0000422
110    329      2      1    102                 0        00010000D0000423
110      0      0      2                                          D0000424
118    331      2      1      4                 0        00000000D0000425
118      0      3      1      1                  SURF(73)         D0000426
110    332      2      1      4                 0        00010000D0000427
110      0      3      2                                          D0000428
110    334      2      1      4                 0        00010000D0000429
110      0      3      2                                          D0000430
118    336      2      1      1                 0        00000000D0000431
118      0      0      1      1                  SURF(74)         D0000432
110    337      2      1      1                 0        00010000D0000433
110      0      0      2                                          D0000434
110    339      2      1      1                 0        00010000D0000435
110      0      0      2                                          D0000436
118    341      2      1      1                 0        00000000D0000437
118      0      0      1      1                  SURF(75)         D0000438
110    342      2      1      1                 0        00010000D0000439
110      0      0      2                                          D0000440
110    344      2      1      1                 0        00010000D0000441
110      0      0      2                                          D0000442
118    346      2      1      4                 0        00000000D0000443
118      0      3      1      1                  SURF(76)         D0000444
110    347      2      1      4                 0        00010000D0000445
```

110	0	3	2			D0000446
110	349	2	1	4	0	00010000D0000447
110	0	3	2			D0000448
118	351	2	1	4	0	00000000D0000449
118	0	3	1	1	SURF(77)	D0000450
116	352	2	1	102	0	00000000D0000451
116	0	0	1		SURF(78)	D0000452
110	353	2	1	102	0	00010000D0000453
110	0	0	2			D0000454
110	355	2	1	102	0	00010000D0000455
110	0	0	2			D0000456
118	357	2	1	4	0	00000000D0000457
118	0	3	1	1	SURF(79)	D0000458
110	358	2	1	4	0	00010000D0000459
110	0	3	2			D0000460
110	360	2	1	4	0	00010000D0000461
110	0	3	2			D0000462
118	362	2	1	1	0	00000000D0000463
118	0	0	1	1	SURF(80)	D0000464
110	363	2	1	1	0	00010000D0000465
110	0	0	2			D0000466
110	365	2	1	1	0	00010000D0000467
110	0	0	2			D0000468
118	367	2	1	1	0	00000000D0000469
118	0	0	1	1	SURF(81)	D0000470
110	368	2	1	1	0	00010000D0000471
110	0	0	2			D0000472
110	370	2	1	1	0	00010000D0000473
110	0	0	2			D0000474
118	372	2	1	4	0	00000000D0000475
118	0	3	1	1	SURF(82)	D0000476
110	373	2	1	4	0	00010000D0000477
110	0	3	2			D0000478
110	375	2	1	4	0	00010000D0000479
110	0	3	2			D0000480
118	377	2	1	4	0	00000000D0000481
118	0	3	1	1	SURF(83)	D0000482
116	378	2	1	113	0	00000000D0000483
116	0	0	1		SURF(88)	D0000484
110	379	2	1	113	0	00010000D0000485
110	0	0	2			D0000486
110	381	2	1	113	0	00010000D0000487
110	0	0	2			D0000488
118	383	2	1	11	0	00000000D0000489
118	0	0	1	1	SURF(89)	D0000490
110	384	2	1	11	0	00010000D0000491
110	0	0	2			D0000492
110	386	2	1	11	0	00010000D0000493
110	0	0	2			D0000494
118	388	2	1	11	0	00000000D0000495
118	0	0	1	1	SURF(90)	D0000496
110	389	2	1	11	0	00010000D0000497
110	0	0	2			D0000498
110	391	2	1	11	0	00010000D0000499
110	0	0	2			D0000500
118	393	2	1	11	0	00000000D0000501
118	0	0	1	1	SURF(91)	D0000502
110	394	2	1	11	0	00010000D0000503
110	0	0	2			D0000504
110	396	2	1	11	0	00010000D0000505
110	0	0	2			D0000506
118	398	2	1	12	0	00000000D0000507
118	0	1	1	1	SURF(92)	D0000508
116	399	2	1	113	0	00000000D0000509

```
     116       0       0       1                          SURF(93)        D0000510
     110     400       2       1     113                0        00010000D0000511
     110       0       0       2                                        D0000512
     110     402       2       1     113                0        00010000D0000513
     110       0       0       2                                        D0000514
     118     404       2       1      11                0        00000000D0000515
     118       0       0       1       1                 SURF(94)        D0000516
     110     405       2       1      11                0        00010000D0000517
     110       0       0       2                                        D0000518
     110     407       2       1      11                0        00010000D0000519
     110       0       0       2                                        D0000520
     118     409       2       1      11                0        00000000D0000521
     118       0       0       1       1                 SURF(95)        D0000522
     110     410       2       1      11                0        00010000D0000523
     110       0       0       2                                        D0000524
     110     412       2       1      11                0        00010000D0000525
     110       0       0       2                                        D0000526
     118     414       2       1      11                0        00000000D0000527
     118       0       0       1       1                 SURF(96)        D0000528
     110     415       2       1      11                0        00010000D0000529
     110       0       0       2                                        D0000530
     110     417       2       1      11                0        00010000D0000531
     110       0       0       2                                        D0000532
     118     419       2       1      12                0        00000000D0000533
     118       0       1       1       1                 SURF(97)        D0000534
     116     420       2       1     103                0        00000000D0000535
     116       0       0       1                          SURF(98)        D0000536
     110     421       2       1     103                0        00010000D0000537
     110       0       0       2                                        D0000538
     110     423       2       1     103                0        00010000D0000539
     110       0       0       2                                        D0000540
     118     425       2       1       3                0        00000000D0000541
     118       0       2       1       1                 SURF(99)        D0000542
     116     426       2       1     103                0        00000000D0000543
     116       0       0       1                          SURF(100        D0000544
     110     427       2       1     103                0        00010000D0000545
     110       0       0       2                                        D0000546
     110     429       2       1     103                0        00010000D0000547
     110       0       0       2                                        D0000548
     118     431       2       1       3                0        00000000D0000549
     118       0       2       1       1                 SURF(101        D0000550
     116     432       2       1     104                0        00000000D0000551
     116       0       0       1                          SURF(102        D0000552
     110     433       2       1     104                0        00010000D0000553
     110       0       0       2                                        D0000554
     110     435       2       1     104                0        00010000D0000555
     110       0       0       2                                        D0000556
     118     437       2       1       3                0        00000000D0000557
     118       0       1       1       1                 SURF(103        D0000558
     110     438       2       1       3                0        00010000D0000559
     110       0       1       2                                LL1     D0000560
     110     440       2       1       3                0        00010000D0000561
     110       0       1       2                                LL2     D0000562
     118     442       2       1       0                0        00000000D0000563
     118       0       1       1       1                 SURF(104        D0000564
124,1.,0.,0.,0.,0.,1.,0.,0.,0.,0.,1.,0.;                          00000001P0000001
410,1;                                                            00000003P0000002
124,1.,0.,0.,0.,0.,0.,-1.,0.,0.,1.,0.,0.;                         00000005P0000003
410,2;                                                            00000007P0000004
124,0.,0.,1.,0.,0.,1.,0.,0.,-1.,0.,0.,0.;                         00000009P0000005
410,3;                                                            00000011P0000006
124,0.866025403784,0.,-0.5,0.,-0.25,0.866025403784,               00000013P0000007
-0.433012701892,0.,0.433012701892,0.5,0.75,0.;                    00000013P0000008
410,4;                                                            00000015P0000009
```

```
124,-1.,0.,0.,0.,0.,1.,0.,0.,0.,-1.,0.;                                  00000017P0000010
410,5;                                                                   00000019P0000011
124,1.,0.,0.,0.,0.,0.,1.,0.,0.,-1.,0.,0.;                                00000021P0000012
410,6;                                                                   00000023P0000013
124,0.,0.,-1.,0.,0.,1.,0.,0.,1.,0.,0.,0.;                                00000025P0000014
410,7;                                                                   00000027P0000015
124,0.866025403784,0.,0.5,0.,-0.25,0.866025403784,                       00000029P0000016
0.433012701892,0.,-0.433012701892,-0.5,0.75,0.;                          00000029P0000017
410,8;                                                                   00000031P0000018
124,0.798635510047,0.,0.601815023152,0.,-0.565521136334,                 00000033P0000019
-0.342020143326,0.750471895489,0.,0.205832860474,                        00000033P0000020
-0.939692620786,-0.273149431611,0.;                                      00000033P0000021
410,9;                                                                   00000035P0000022
124,0.874619707139,0.,0.484809620246,0.,-0.10079758787,                  00000037P0000023
0.978147600734,0.181843662134,0.,-0.474215366857,                        00000037P0000024
-0.207911690818,0.855507168093,0.;                                       00000037P0000025
410,10;                                                                  00000039P0000026
124,-0.44389408333,0.325568154457,-0.834843350329,0.,                    00000041P0000027
0.152844990266,0.945518575599,0.287459618289,0.,0.882947592859,          00000041P0000028
0.,-0.469471562786,0.;                                                   00000041P0000029
410,11;                                                                  00000043P0000030
116,6.987668161435,6.987668161435,3.;                                    00000045P0000031
110,5.987668161435,3.987668161435,3.,7.987668161435,                     00000047P0000032
3.987668161435,3.;                                                       00000047P0000033
110,5.987668161435,9.987668161435,3.,7.987668161435,                     00000049P0000034
9.987668161435,3.;                                                       00000049P0000035
118,47,49,0,0;                                                           00000051P0000036
110,5.987668161435,3.987668161435,3.,7.987668161435,                     00000053P0000037
3.987668161435,3.;                                                       00000053P0000038
110,5.987668161435,9.987668161435,3.,7.987668161435,                     00000055P0000039
9.987668161435,3.;                                                       00000055P0000040
118,53,55,0,0;                                                           00000057P0000041
116,4.487668161435,6.987668161435,4.;                                    00000059P0000042
110,3.987668161435,5.987668161435,3.,3.987668161435,                     00000061P0000043
7.987668161435,3.;                                                       00000061P0000044
110,3.987668161435,5.987668161435,5.,3.987668161435,                     00000063P0000045
7.987668161435,5.;                                                       00000063P0000046
118,61,63,0,0;                                                           00000065P0000047
110,4.987668161435,5.987668161435,3.,4.987668161435,                     00000067P0000048
7.987668161435,3.;                                                       00000067P0000049
110,4.987668161435,5.987668161435,5.,4.987668161435,                     00000069P0000050
7.987668161435,5.;                                                       00000069P0000051
118,67,69,0,0;                                                           00000071P0000052
110,3.987668161435,5.987668161435,3.,4.987668161435,                     00000073P0000053
5.987668161435,3.;                                                       00000073P0000054
110,3.987668161435,5.987668161435,5.,4.987668161435,                     00000075P0000055
5.987668161435,5.;                                                       00000075P0000056
118,73,75,0,0;                                                           00000077P0000057
110,3.987668161435,7.987668161435,3.,4.987668161435,                     00000079P0000058
7.987668161435,3.;                                                       00000079P0000059
110,3.987668161435,7.987668161435,5.,4.987668161435,                     00000081P0000060
7.987668161435,5.;                                                       00000081P0000061
118,79,81,0,0;                                                           00000083P0000062
110,3.987668161435,5.987668161435,5.,4.987668161435,                     00000085P0000063
5.987668161435,5.;                                                       00000085P0000064
110,3.987668161435,7.987668161435,5.,4.987668161435,                     00000087P0000065
7.987668161435,5.;                                                       00000087P0000066
118,85,87,0,0;                                                           00000089P0000067
116,5.487668161435,6.987668161435,4.;                                    00000091P0000068
110,5.987668161435,5.987668161435,3.,5.987668161435,                     00000093P0000069
7.987668161435,3.;                                                       00000093P0000070
110,5.987668161435,5.987668161435,5.,5.987668161435,                     00000095P0000071
7.987668161435,5.;                                                       00000095P0000072
118,93,95,0,0;                                                           00000097P0000073
```

```
110,4.987668161435,5.987668161435,3.,5.987668161435,          00000099P0000074
5.987668161435,3.;                                            00000099P0000075
110,4.987668161435,5.987668161435,5.,5.987668161435,          00000101P0000076
5.987668161435,5.;                                            00000101P0000077
118,99,101,0,0;                                               00000103P0000078
110,4.987668161435,7.987668161435,3.,5.987668161435,          00000105P0000079
7.987668161435,3.;                                            00000105P0000080
110,4.987668161435,7.987668161435,5.,5.987668161435,          00000107P0000081
7.987668161435,5.;                                            00000107P0000082
118,105,107,0,0;                                              00000109P0000083
110,4.987668161435,5.987668161435,5.,5.987668161435,          00000111P0000084
5.987668161435,5.;                                            00000111P0000085
110,4.987668161435,7.987668161435,5.,5.987668161435,          00000113P0000086
7.987668161435,5.;                                            00000113P0000087
118,111,113,0,0;                                              00000115P0000088
116,11.987668161435,5.987668161435,3.;                        00000117P0000089
116,13.987668161435,5.987668161435,3.;                        00000119P0000090
116,11.987668161435,7.987668161435,3.;                        00000121P0000091
116,13.987668161435,7.987668161435,3.;                        00000123P0000092
116,11.987668161435,5.987668161435,4.;                        00000125P0000093
116,13.987668161435,5.987668161435,4.;                        00000127P0000094
116,11.987668161435,7.987668161435,4.;                        00000129P0000095
116,13.987668161435,7.987668161435,4.;                        00000131P0000096
116,12.987668161435,6.987668161435,3.5;                       00000133P0000097
110,11.987668161435,5.987668161435,3.,11.987668161435,        00000135P0000098
7.987668161435,3.;                                            00000135P0000099
110,11.987668161435,5.987668161435,4.,11.987668161435,        00000137P0000100
7.987668161435,4.;                                            00000137P0000101
118,135,137,0,0;                                              00000139P0000102
110,13.987668161435,5.987668161435,3.,13.987668161435,        00000141P0000103
7.987668161435,3.;                                            00000141P0000104
110,13.987668161435,5.987668161435,4.,13.987668161435,        00000143P0000105
7.987668161435,4.;                                            00000143P0000106
118,141,143,0,0;                                              00000145P0000107
110,11.987668161435,5.987668161435,3.,13.987668161435,        00000147P0000108
5.987668161435,3.;                                            00000147P0000109
110,11.987668161435,5.987668161435,4.,13.987668161435,        00000149P0000110
5.987668161435,4.;                                            00000149P0000111
118,147,149,0,0;                                              00000151P0000112
110,11.987668161435,7.987668161435,3.,13.987668161435,        00000153P0000113
7.987668161435,3.;                                            00000153P0000114
110,11.987668161435,7.987668161435,4.,13.987668161435,        00000155P0000115
7.987668161435,4.;                                            00000155P0000116
118,153,155,0,0;                                              00000157P0000117
110,11.987668161435,5.987668161435,3.,13.987668161435,        00000159P0000118
5.987668161435,3.;                                            00000159P0000119
110,11.987668161435,7.987668161435,3.,13.987668161435,        00000161P0000120
7.987668161435,3.;                                            00000161P0000121
118,159,161,0,0;                                              00000163P0000122
116,4.487668161435,7.,5.987668161435;                         00000165P0000123
110,3.987668161435,7.,4.987668161435,4.987668161435,7.,       00000167P0000124
4.987668161435;                                               00000167P0000125
110,3.987668161435,7.,6.987668161435,4.987668161435,7.,       00000169P0000126
6.987668161435;                                               00000169P0000127
118,167,169,0,0;                                              00000171P0000128
110,3.987668161435,7.,4.987668161435,4.987668161435,7.,       00000173P0000129
4.987668161435;                                               00000173P0000130
110,3.987668161435,7.,6.987668161435,4.987668161435,7.,       00000175P0000131
6.987668161435;                                               00000175P0000132
118,173,175,0,0;                                              00000177P0000133
116,5.487668161435,7.,5.487668161435;                         00000179P0000134
110,4.987668161435,7.,4.987668161435,5.987668161435,7.,       00000181P0000135
4.987668161435;                                               00000181P0000136
110,4.987668161435,7.,5.987668161435,5.987668161435,7.,       00000183P0000137
```

```
5.987668161435;                                                          00000183P0000138
118,181,183,0,0;                                                         00000185P0000139
110,4.987668161435,7.,4.987668161435,5.987668161435,7.,                  00000187P0000140
4.987668161435;                                                          00000187P0000141
110,4.987668161435,7.,5.987668161435,5.987668161435,7.,                  00000189P0000142
5.987668161435;                                                          00000189P0000143
118,187,189,0,0;                                                         00000191P0000144
116,8.,8.321001494768,3.345665171898;                                    00000193P0000145
110,4.,7.987668161435,4.012331838565,4.,8.987668161435,                  00000195P0000146
3.012331838565;                                                          00000195P0000147
110,12.,7.987668161435,4.012331838565,12.,8.987668161435,                00000197P0000148
3.012331838565;                                                          00000197P0000149
118,195,197,0,0;                                                         00000199P0000150
110,4.,7.987668161435,3.012331838565,4.,8.987668161435,                  00000201P0000151
3.012331838565;                                                          00000201P0000152
110,12.,7.987668161435,3.012331838565,12.,8.987668161435,                00000203P0000153
3.012331838565;                                                          00000203P0000154
118,201,203,0,0;                                                         00000205P0000155
110,4.,7.987668161435,3.012331838565,4.,7.987668161435,                  00000207P0000156
4.012331838565;                                                          00000207P0000157
110,12.,7.987668161435,3.012331838565,12.,7.987668161435,                00000209P0000158
4.012331838565;                                                          00000209P0000159
118,207,209,0,0;                                                         00000211P0000160
110,4.,7.987668161435,4.012331838565,4.,7.987668161435,                  00000213P0000161
3.012331838565;                                                          00000213P0000162
110,4.,7.987668161435,4.012331838565,4.,8.987668161435,                  00000215P0000163
3.012331838565;                                                          00000215P0000164
118,213,215,0,0;                                                         00000217P0000165
110,12.,7.987668161435,4.012331838565,12.,7.987668161435,                00000219P0000166
3.012331838565;                                                          00000219P0000167
110,12.,7.987668161435,4.012331838565,12.,8.987668161435,                00000221P0000168
3.012331838565;                                                          00000221P0000169
118,219,221,0,0;                                                         00000223P0000170
116,8.,5.654334828102,3.345665171898;                                    00000225P0000171
110,4.,5.987668161435,4.012331838565,4.,4.987668161435,                  00000227P0000172
3.012331838565;                                                          00000227P0000173
110,12.,5.987668161435,4.012331838565,12.,4.987668161435,                00000229P0000174
3.012331838565;                                                          00000229P0000175
118,227,229,0,0;                                                         00000231P0000176
110,4.,5.987668161435,3.012331838565,4.,4.987668161435,                  00000233P0000177
3.012331838565;                                                          00000233P0000178
110,12.,5.987668161435,3.012331838565,12.,4.987668161435,                00000235P0000179
3.012331838565;                                                          00000235P0000180
118,233,235,0,0;                                                         00000237P0000181
110,4.,5.987668161435,3.012331838565,4.,5.987668161435,                  00000239P0000182
4.012331838565;                                                          00000239P0000183
110,12.,5.987668161435,3.012331838565,12.,5.987668161435,                00000241P0000184
4.012331838565;                                                          00000241P0000185
118,239,241,0,0;                                                         00000243P0000186
110,4.,5.987668161435,4.012331838565,4.,5.987668161435,                  00000245P0000187
3.012331838565;                                                          00000245P0000188
110,4.,5.987668161435,4.012331838565,4.,4.987668161435,                  00000247P0000189
3.012331838565;                                                          00000247P0000190
118,245,247,0,0;                                                         00000249P0000191
110,12.,5.987668161435,4.012331838565,12.,5.987668161435,                00000251P0000192
3.012331838565;                                                          00000251P0000193
110,12.,5.987668161435,4.012331838565,12.,4.987668161435,                00000253P0000194
3.012331838565;                                                          00000253P0000195
118,251,253,0,0;                                                         00000255P0000196
116,4.987668161435,6.987668161435,3.;                                    00000257P0000197
110,3.987668161435,2.987668161435,3.,5.987668161435,                     00000259P0000198
2.987668161435,3.;                                                       00000259P0000199
110,3.987668161435,10.987668161435,3.,5.987668161435,                    00000261P0000200
10.987668161435,3.;                                                      00000261P0000201
```

Micro Shuttle IGES File Description: MSHUTL.TAP

```
118,259,261,0,0;                                                    00000263P0000202
110,3.987668161435,2.987668161435,3.,5.987668161435,                00000265P0000203
2.987668161435,3.;                                                  00000265P0000204
110,3.987668161435,10.987668161435,3.,5.987668161435,               00000267P0000205
10.987668161435,3.;                                                 00000267P0000206
118,265,267,0,0;                                                    00000269P0000207
116,9.,7.654334828102,3.345665171898;                               00000271P0000208
110,6.,7.987668161435,4.012331838565,6.,6.987668161435,             00000273P0000209
3.012331838565;                                                     00000273P0000210
110,12.,7.987668161435,4.012331838565,12.,6.987668161435,           00000275P0000211
3.012331838565;                                                     00000275P0000212
118,273,275,0,0;                                                    00000277P0000213
110,6.,7.987668161435,3.012331838565,6.,6.987668161435,             00000279P0000214
3.012331838565;                                                     00000279P0000215
110,12.,7.987668161435,3.012331838565,12.,6.987668161435,           00000281P0000216
3.012331838565;                                                     00000281P0000217
118,279,281,0,0;                                                    00000283P0000218
110,6.,7.987668161435,3.012331838565,6.,7.987668161435,             00000285P0000219
4.012331838565;                                                     00000285P0000220
110,12.,7.987668161435,3.012331838565,12.,7.987668161435,           00000287P0000221
4.012331838565;                                                     00000287P0000222
118,285,287,0,0;                                                    00000289P0000223
110,6.,7.987668161435,4.012331838565,6.,7.987668161435,             00000291P0000224
3.012331838565;                                                     00000291P0000225
110,6.,7.987668161435,4.012331838565,6.,6.987668161435,             00000293P0000226
3.012331838565;                                                     00000293P0000227
118,291,293,0,0;                                                    00000295P0000228
110,12.,7.987668161435,4.012331838565,12.,7.987668161435,           00000297P0000229
3.012331838565;                                                     00000297P0000230
110,12.,7.987668161435,4.012331838565,12.,6.987668161435,           00000299P0000231
3.012331838565;                                                     00000299P0000232
118,297,299,0,0;                                                    00000301P0000233
116,9.,6.321001494768,3.345665171898;                               00000303P0000234
110,6.,5.987668161435,4.012331838565,6.,6.987668161435,             00000305P0000235
3.012331838565;                                                     00000305P0000236
110,12.,5.987668161435,4.012331838565,12.,6.987668161435,           00000307P0000237
3.012331838565;                                                     00000307P0000238
118,305,307,0,0;                                                    00000309P0000239
110,6.,5.987668161435,3.012331838565,6.,6.987668161435,             00000311P0000240
3.012331838565;                                                     00000311P0000241
110,12.,5.987668161435,3.012331838565,12.,6.987668161435,           00000313P0000242
3.012331838565;                                                     00000313P0000243
118,311,313,0,0;                                                    00000315P0000244
110,6.,5.987668161435,3.012331838565,6.,5.987668161435,             00000317P0000245
4.012331838565;                                                     00000317P0000246
110,12.,5.987668161435,3.012331838565,12.,5.987668161435,           00000319P0000247
4.012331838565;                                                     00000319P0000248
118,317,319,0,0;                                                    00000321P0000249
110,6.,5.987668161435,4.012331838565,6.,5.987668161435,             00000323P0000250
3.012331838565;                                                     00000323P0000251
110,6.,5.987668161435,4.012331838565,6.,6.987668161435,             00000325P0000252
3.012331838565;                                                     00000325P0000253
118,323,325,0,0;                                                    00000327P0000254
110,12.,5.987668161435,4.012331838565,12.,5.987668161435,           00000329P0000255
3.012331838565;                                                     00000329P0000256
110,12.,5.987668161435,4.012331838565,12.,6.987668161435,           00000331P0000257
3.012331838565;                                                     00000331P0000258
118,329,331,0,0;                                                    00000333P0000259
110,6.,7.987668161435,4.012331838565,6.,8.987668161435,             00000335P0000260
5.012331838565;                                                     00000335P0000261
110,12.,7.987668161435,4.012331838565,12.,8.987668161435,           00000337P0000262
5.012331838565;                                                     00000337P0000263
116,9.,8.987668161435,4.012331838565;                               00000339P0000264
118,335,337,0,0;                                                    00000341P0000265
```

```
118,335,337,0,0;                                                    00000343P0000266
110,6.,5.987668161435,4.012331838565,6.,4.987668161435,             00000345P0000267
5.012331838565;                                                     00000345P0000268
110,12.,5.987668161435,4.012331838565,12.,4.987668161435,           00000347P0000269
5.012331838565;                                                     00000347P0000270
116,9.,4.987668161435,4.012331838565;                               00000349P0000271
118,345,347,0,0;                                                    00000351P0000272
118,345,347,0,0;                                                    00000353P0000273
116,13.,7.321001494768,4.345665171898;                              00000355P0000274
110,12.,6.987668161435,5.012331838565,12.,7.987668161435,           00000357P0000275
4.012331838565;                                                     00000357P0000276
110,14.,6.987668161435,5.012331838565,14.,7.987668161435,           00000359P0000277
4.012331838565;                                                     00000359P0000278
118,357,359,0,0;                                                    00000361P0000279
110,12.,6.987668161435,4.012331838565,12.,7.987668161435,           00000363P0000280
4.012331838565;                                                     00000363P0000281
110,14.,6.987668161435,4.012331838565,14.,7.987668161435,           00000365P0000282
4.012331838565;                                                     00000365P0000283
118,363,365,0,0;                                                    00000367P0000284
110,12.,6.987668161435,4.012331838565,12.,6.987668161435,           00000369P0000285
5.012331838565;                                                     00000369P0000286
110,14.,6.987668161435,4.012331838565,14.,6.987668161435,           00000371P0000287
5.012331838565;                                                     00000371P0000288
118,369,371,0,0;                                                    00000373P0000289
110,12.,6.987668161435,5.012331838565,12.,6.987668161435,           00000375P0000290
4.012331838565;                                                     00000375P0000291
110,12.,6.987668161435,5.012331838565,12.,7.987668161435,           00000377P0000292
4.012331838565;                                                     00000377P0000293
118,375,377,0,0;                                                    00000379P0000294
110,14.,6.987668161435,5.012331838565,14.,6.987668161435,           00000381P0000295
4.012331838565;                                                     00000381P0000296
110,14.,6.987668161435,5.012331838565,14.,7.987668161435,           00000383P0000297
4.012331838565;                                                     00000383P0000298
118,381,383,0,0;                                                    00000385P0000299
116,13.,6.654334828102,4.345665171898;                              00000387P0000300
110,12.,6.987668161435,5.012331838565,12.,5.987668161435,           00000389P0000301
4.012331838565;                                                     00000389P0000302
110,14.,6.987668161435,5.012331838565,14.,5.987668161435,           00000391P0000303
4.012331838565;                                                     00000391P0000304
118,389,391,0,0;                                                    00000393P0000305
110,12.,6.987668161435,4.012331838565,12.,5.987668161435,           00000395P0000306
4.012331838565;                                                     00000395P0000307
110,14.,6.987668161435,4.012331838565,14.,5.987668161435,           00000397P0000308
4.012331838565;                                                     00000397P0000309
118,395,397,0,0;                                                    00000399P0000310
110,12.,6.987668161435,4.012331838565,12.,6.987668161435,           00000401P0000311
5.012331838565;                                                     00000401P0000312
110,14.,6.987668161435,4.012331838565,14.,6.987668161435,           00000403P0000313
5.012331838565;                                                     00000403P0000314
118,401,403,0,0;                                                    00000405P0000315
110,12.,6.987668161435,5.012331838565,12.,6.987668161435,           00000407P0000316
4.012331838565;                                                     00000407P0000317
110,12.,6.987668161435,5.012331838565,12.,5.987668161435,           00000409P0000318
4.012331838565;                                                     00000409P0000319
118,407,409,0,0;                                                    00000411P0000320
110,14.,6.987668161435,5.012331838565,14.,6.987668161435,           00000413P0000321
4.012331838565;                                                     00000413P0000322
110,14.,6.987668161435,5.012331838565,14.,5.987668161435,           00000415P0000323
4.012331838565;                                                     00000415P0000324
118,413,415,0,0;                                                    00000417P0000325
116,14.321001494768,6.654334828102,3.5;                             00000419P0000326
110,14.987668161435,6.987668161435,3.,13.987668161435,              00000421P0000327
5.987668161435,3.;                                                  00000421P0000328
110,14.987668161435,6.987668161435,4.,13.987668161435,              00000423P0000329
```

Micro Shuttle IGES File Description: MSHUTL.TAP

```
5.987668161435,4.;                                                  00000423P0000330
118,421,423,0,0;                                                    00000425P0000331
110,13.987668161435,6.987668161435,3.,13.987668161435,              00000427P0000332
5.987668161435,3.;                                                  00000427P0000333
110,13.987668161435,6.987668161435,4.,13.987668161435,              00000429P0000334
5.987668161435,4.;                                                  00000429P0000335
118,427,429,0,0;                                                    00000431P0000336
110,13.987668161435,6.987668161435,3.,14.987668161435,              00000433P0000337
6.987668161435,3.;                                                  00000433P0000338
110,13.987668161435,6.987668161435,4.,14.987668161435,              00000435P0000339
6.987668161435,4.;                                                  00000435P0000340
118,433,435,0,0;                                                    00000437P0000341
110,14.987668161435,6.987668161435,3.,13.987668161435,              00000439P0000342
6.987668161435,3.;                                                  00000439P0000343
110,14.987668161435,6.987668161435,3.,13.987668161435,              00000441P0000344
5.987668161435,3.;                                                  00000441P0000345
118,439,441,0,0;                                                    00000443P0000346
110,14.987668161435,6.987668161435,4.,13.987668161435,              00000445P0000347
6.987668161435,4.;                                                  00000445P0000348
110,14.987668161435,6.987668161435,4.,13.987668161435,              00000447P0000349
5.987668161435,4.;                                                  00000447P0000350
118,445,447,0,0;                                                    00000449P0000351
116,14.321001494768,7.321001494768,3.5;                             00000451P0000352
110,14.987668161435,6.987668161435,3.,13.987668161435,              00000453P0000353
7.987668161435,3.;                                                  00000453P0000354
110,14.987668161435,6.987668161435,4.,13.987668161435,              00000455P0000355
7.987668161435,4.;                                                  00000455P0000356
118,453,455,0,0;                                                    00000457P0000357
110,13.987668161435,6.987668161435,3.,13.987668161435,              00000459P0000358
7.987668161435,3.;                                                  00000459P0000359
110,13.987668161435,6.987668161435,4.,13.987668161435,              00000461P0000360
7.987668161435,4.;                                                  00000461P0000361
118,459,461,0,0;                                                    00000463P0000362
110,13.987668161435,6.987668161435,3.,14.987668161435,              00000465P0000363
6.987668161435,3.;                                                  00000465P0000364
110,13.987668161435,6.987668161435,4.,14.987668161435,              00000467P0000365
6.987668161435,4.;                                                  00000467P0000366
118,465,467,0,0;                                                    00000469P0000367
110,14.987668161435,6.987668161435,3.,13.987668161435,              00000471P0000368
6.987668161435,3.;                                                  00000471P0000369
110,14.987668161435,6.987668161435,3.,13.987668161435,              00000473P0000370
7.987668161435,3.;                                                  00000473P0000371
118,471,473,0,0;                                                    00000475P0000372
110,14.987668161435,6.987668161435,4.,13.987668161435,              00000477P0000373
6.987668161435,4.;                                                  00000477P0000374
110,14.987668161435,6.987668161435,4.,13.987668161435,              00000479P0000375
7.987668161435,4.;                                                  00000479P0000376
118,477,479,0,0;                                                    00000481P0000377
116,12.237668161435,5.737668161435,3.25;                            00000483P0000378
110,12.987668161435,5.987668161435,3.,11.987668161435,              00000485P0000379
4.987668161435,3.;                                                  00000485P0000380
110,12.987668161435,5.987668161435,3.,11.987668161435,              00000487P0000381
5.987668161435,4.;                                                  00000487P0000382
118,485,487,0,0;                                                    00000489P0000383
110,11.987668161435,5.987668161435,3.,11.987668161435,              00000491P0000384
4.987668161435,3.;                                                  00000491P0000385
110,11.987668161435,5.987668161435,4.,11.987668161435,              00000493P0000386
4.987668161435,3.;                                                  00000493P0000387
118,491,493,0,0;                                                    00000495P0000388
110,12.987668161435,5.987668161435,3.,11.987668161435,              00000497P0000389
5.987668161435,3.;                                                  00000497P0000390
110,12.987668161435,5.987668161435,3.,11.987668161435,              00000499P0000391
5.987668161435,4.;                                                  00000499P0000392
118,497,499,0,0;                                                    00000501P0000393
```

Micro Shuttle IGES File Description: MSHUTL.TAP

```
110,12.987668161435,5.987668161435,3.,11.987668161435,          00000503P0000394
5.987668161435,3.;                                              00000503P0000395
110,12.987668161435,5.987668161435,3.,11.987668161435,          00000505P0000396
4.987668161435,3.;                                              00000505P0000397
118,503,505,0,0;                                                00000507P0000398
116,12.237668161435,8.237668161435,3.25;                        00000509P0000399
110,12.987668161435,7.987668161435,3.,11.987668161435,          00000511P0000400
8.987668161435,3.;                                              00000511P0000401
110,12.987668161435,7.987668161435,3.,11.987668161435,          00000513P0000402
7.987668161435,4.;                                              00000513P0000403
118,511,513,0,0;                                                00000515P0000404
110,11.987668161435,7.987668161435,3.,11.987668161435,          00000517P0000405
8.987668161435,3.;                                              00000517P0000406
110,11.987668161435,7.987668161435,4.,11.987668161435,          00000519P0000407
8.987668161435,3.;                                              00000519P0000408
118,517,519,0,0;                                                00000521P0000409
110,12.987668161435,7.987668161435,3.,11.987668161435,          00000523P0000410
7.987668161435,3.;                                              00000523P0000411
110,12.987668161435,7.987668161435,3.,11.987668161435,          00000525P0000412
7.987668161435,4.;                                              00000525P0000413
118,523,525,0,0;                                                00000527P0000414
110,12.987668161435,7.987668161435,3.,11.987668161435,          00000529P0000415
7.987668161435,3.;                                              00000529P0000416
110,12.987668161435,7.987668161435,3.,11.987668161435,          00000531P0000417
8.987668161435,3.;                                              00000531P0000418
118,529,531,0,0;                                                00000533P0000419
116,14.237668161435,7.237668161435,4.25;                        00000535P0000420
110,14.987668161435,6.987668161435,4.,13.987668161435,          00000537P0000421
7.987668161435,4.;                                              00000537P0000422
110,14.987668161435,6.987668161435,4.,13.987668161435,          00000539P0000423
6.987668161435,5.;                                              00000539P0000424
118,537,539,0,0;                                                00000541P0000425
116,14.237668161435,6.737668161435,4.25;                        00000543P0000426
110,14.987668161435,6.987668161435,4.,13.987668161435,          00000545P0000427
5.987668161435,4.;                                              00000545P0000428
110,14.987668161435,6.987668161435,4.,13.987668161435,          00000547P0000429
6.987668161435,5.;                                              00000547P0000430
118,545,547,0,0;                                                00000549P0000431
116,8.987668161435,6.987668161435,3.;                           00000551P0000432
110,5.987668161435,5.987668161435,3.,11.987668161435,           00000553P0000433
5.987668161435,3.;                                              00000553P0000434
110,5.987668161435,7.987668161435,3.,11.987668161435,           00000555P0000435
7.987668161435,3.;                                              00000555P0000436
118,553,555,0,0;                                                00000557P0000437
110,5.987668161435,5.987668161435,3.,11.987668161435,           00000559P0000438
5.987668161435,3.;                                              00000559P0000439
110,5.987668161435,7.987668161435,3.,11.987668161435,           00000561P0000440
7.987668161435,3.;                                              00000561P0000441
118,559,561,0,0;                                                00000563P0000442
S0000001G0000002D0000564P0000442                                        T0000001
\032
\032
```

Micro Shuttle Object Building Block File: MSHUTL.OBB

```
OFFSET   0 0 0
CONDUCTOR            1
PLATE
corner             4             3             6
deltas             6             0             2
bottom -y MA02
top +y    MA01
endobj
CONDUCTOR            1
RECTAN
corner             6             3             4
deltas             2             2             1
surface -z MA05
surface +z MA05
surface -x MA01
surface +x MA01
surface +y MA01
endobj
CONDUCTOR            1
RECTAN
corner             6             3             5
deltas             2             2             1
surface +z MA03
surface -x MA03
surface +x MA03
surface +y MA03
endobj
CONDUCTOR            1
RECTAN
corner             6             3            12
deltas             2             1             2
surface -z MA03
surface +z MA03
surface -x MA01
surface +x MA01
surface -y MA02
endobj
CONDUCTOR            1
PLATE
corner             7             5             4
deltas             0             2             1
bottom -x MA03
top +x    MA03
endobj
CONDUCTOR            1
PLATE
corner             7             5             5
deltas             0             1             1
bottom -x MA03
top +x    MA03
endobj
CONDUCTOR            1
WEDGE
corner             8             3             4
face    MA01  1   1  0
length             1             1             8
surface -z MA02
surface -x MA01
surface +z MA01
surface -y MA01
endobj
CONDUCTOR            1
WEDGE
corner             6             3             4
```

Micro Shuttle Object Building Block File: MSHUTL.OBB

```
face    MA01 -1  1  0
length            1            1            8
surface -z MA02
surface +x MA01
surface +z MA01
surface -y MA01
endobj
CONDUCTOR            1
PLATE
corner            3            3            4
deltas            8            0            2
bottom -y MA02
top +y    MA01
endobj
CONDUCTOR            1
WEDGE
corner            8            3            6
face    MA01 -1  1  0
length            1            1            6
surface -z MA02
surface +x MA01
surface +z MA01
surface -y MA01
endobj
CONDUCTOR            1
WEDGE
corner            6            3            6
face    MA01  1  1  0
length            1            1            6
surface -z MA02
surface -x MA01
surface +z MA01
surface -y MA01
endobj
CONDUCTOR            1
SLANT
corner            9            4            6
 top MA06           -1            1            0
bottom MA01
length            1            1            6
endobj
CONDUCTOR            1
SLANT
corner            5            4            6
 top MA06           1            1            0
bottom MA01
length            1            1            6
endobj
CONDUCTOR            1
WEDGE
corner            7            4           12
face    MA01  1  1  0
length            1            1            2
surface -z MA01
surface -x MA01
surface +z MA01
surface -y MA01
endobj
CONDUCTOR            1
WEDGE
corner            7            4           12
face    MA01 -1  1  0
length            1            1            2
surface -z MA01
```

Micro Shuttle Object Building Block File: MSHUTL.OBB

```
surface +x MA01
surface +z MA01
surface -y MA01
endobj
CONDUCTOR            1
WEDGE
corner              7          3          14
face    MA04 -1  0  1
length              1          1           1
surface -z MA01
surface +x MA01
surface -y MA04
surface +y MA04
endobj
CONDUCTOR            1
WEDGE
corner              7          3          14
face    MA04  1  0  1
length              1          1           1
surface -z MA01
surface -x MA01
surface -y MA04
surface +y MA04
endobj
CONDUCTOR            1
TETRAH
corner              7          4          14
face    MA03  1  1  1
length              1
endobj
CONDUCTOR            1
TETRAH
corner              7          4          14
face    MA03 -1  1  1
length              1
endobj
CONDUCTOR            1
PLATE
corner              6          3           6
deltas              2          0           6
bottom -y MA02
top +y    MA02
endobj
ENDSAT
```

Micro Shuttle POLAR Object Definition File: MSHUTL.ODF

```
COMMENT    MATERIAL DEFINITIONS
COMMENT    FOR PRESENT PURPOSES, ALL PROPERTIES ARE 'KAPTON'
FRSI
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
HRSI
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
LRSI
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
LESS
      3.5,.000127,1.E-16,5.,2.1,.15,71.48,.60,
      312.1,1.77,.455,140.,.00002,1.E+16,1.E+4,2.E+3,
      1.E-13,1.,1.E+3,20.
COMMENT THIN PLATE ALONG SHUTTLE BOTTOM TO
COMMENT SPECIFY BOTTOM AS TOP
PLATE
CORNER -1,-2,-5
DELTAS 2,0,10
BOTTOM +Y FRSI
TOP -Y HRSI
ENDOBJ
COMMENT FRONT END OF FUSELAGE
RECTAN
CORNER -1,-2,3
DELTAS 2,1,2
SURFACE +X FRSI
SURFACE -X FRSI
SURFACE -Y HRSI
SURFACE -Z FRSI
ENDOBJ
WEDGE
CORNER 0,-1,3
FACE FRSI -1,1,0
LENGTH 1,1,2
SURFACE -Z FRSI
ENDOBJ
WEDGE
CORNER 0,-1,3
FACE FRSI 1,1,0
LENGTH 1,1,2
SURFACE -Z FRSI
ENDOBJ
TETRAH
CORNER 0,-1,5
FACE LRSI -1,1,1
LENGTH 1
ENDOBJ
TETRAH
CORNER 0,-1,5
FACE LRSI 1,1,1
LENGTH 1
ENDOBJ
WEDGE
CORNER 0,-2,5
FACE LESS 1,0,1
LENGTH 1,1,1
SURFACE +Y LESS
SURFACE -Y LESS
ENDOBJ
```

Micro Shuttle POLAR Object Definition File: MSHUTL.ODF

```
WEDGE
CORNER 0,-2,5
FACE LESS -1,0,1
LENGTH 1,1,1
SURFACE +Y LESS
SURFACE -Y LESS
ENDOBJ
COMMENT CARGO BAY
WEDGE
CORNER -1,-2,-3
FACE FRSI 1,1,0
LENGTH 1,1,6
SURFACE -Y HRSI
SURFACE -X FRSI
ENDOBJ
WEDGE
CORNER 1,-2,-3
FACE FRSI -1,1,0
LENGTH 1,1,6
SURFACE -Y HRSI
SURFACE +X FRSI
ENDOBJ
WEDGE
CORNER -1,-2,-5
FACE FRSI -1,1,0
LENGTH 1,1,8
SURFACE -Y HRSI
SURFACE -Z AQUA
ENDOBJ
WEDGE
CORNER 1,-2,-5
FACE FRSI 1,1,0
LENGTH 1,1,8
SURFACE -Y HRSI
SURFACE -Z AQUA
ENDOBJ
TETRAH
CORNER -1,-2,3
FACE FRSI -1,1,1
LENGTH 1
SURFACE -Y HRSI
ENDOBJ
TETRAH
CORNER 1,-2,3
FACE FRSI 1,1,1
LENGTH 1
SURFACE -Y HRSI
ENDOBJ
COMMENT CARGO BAY DOORS...OPEN
SLANT
CORNER -1,0,-3
TOP FRSI -1 -1 0
BOTTOM KAPTON
LENGTH 1,1,6
ENDOBJ
SLANT
CORNER 1,0,-3
TOP FRSI 1 -1 0
BOTTOM KAPTON
LENGTH 1,1,6
ENDOBJ
COMMENT TAIL SECTION
RECTAN
CORNER -1,-2,-5
```

Micro Shuttle POLAR Object Definition File: MSEUTL.ODF

```
DELTAS 2,2,2
SURFACE +X FRSI
SURFACE -X FRSI
SURFACE +Y FRSI
SURFACE -Y HRSI
SURFACE +Z FRSI
SURFACE -Z AQUA
ENDOBJ
RECTAN
CORNER -1,-1,-4
DELTAS 2,1,1
SURFACE +X LRSI
SURFACE -X LRSI
SURFACE +Y LRSI
SURFACE +Z LRSI
ENDOBJ
COMMENT TAIL RUDDER
PLATE
CORNER 0,0,-5
DELTAS 0,1,2
TOP +X LRSI
BOTTOM -X LRSI
ENDOBJ
PLATE
CORNER 0,1,-5
DELTAS 0,1,1
TOP +X LRSI
BOTTOM -X LRSI
ENDOBJ
COMMENT WINGS
COMMENT PORT WING
PLATE
CORNER -4,-2,-5
DELTAS 3,0,2
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
PLATE
CORNER -3,-2,-3
DELTAS 2,0,2
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
COMMENT STARTBOARD WING
PLATE
CORNER 1,-2,-5
DELTAS 3,0,2
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
PLATE
CORNER 1,-2,-3
DELTAS 2,0,2
TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
ENDSAT
```

Micro Shuttle: VEHICL Run Deck

```
BATCH
remark MAKEPLOT 2
remark PLOTDIR 3. 1. -2.
remark PLOTDIR 3. 1. 2.
REMARK PLOTDIR 3. 5. 2.
REMARK PLOTDIR 2. 1. -3.
REMARK PLOTDIR 2. 3. -1.
remark PLOTDEST NONE
remark MATPLOTS YES
NXYZ 14 10 17
DXMESH 3.6
PREFIX MICS
END
```

Micro Shuttle: ORIENT Run Deck

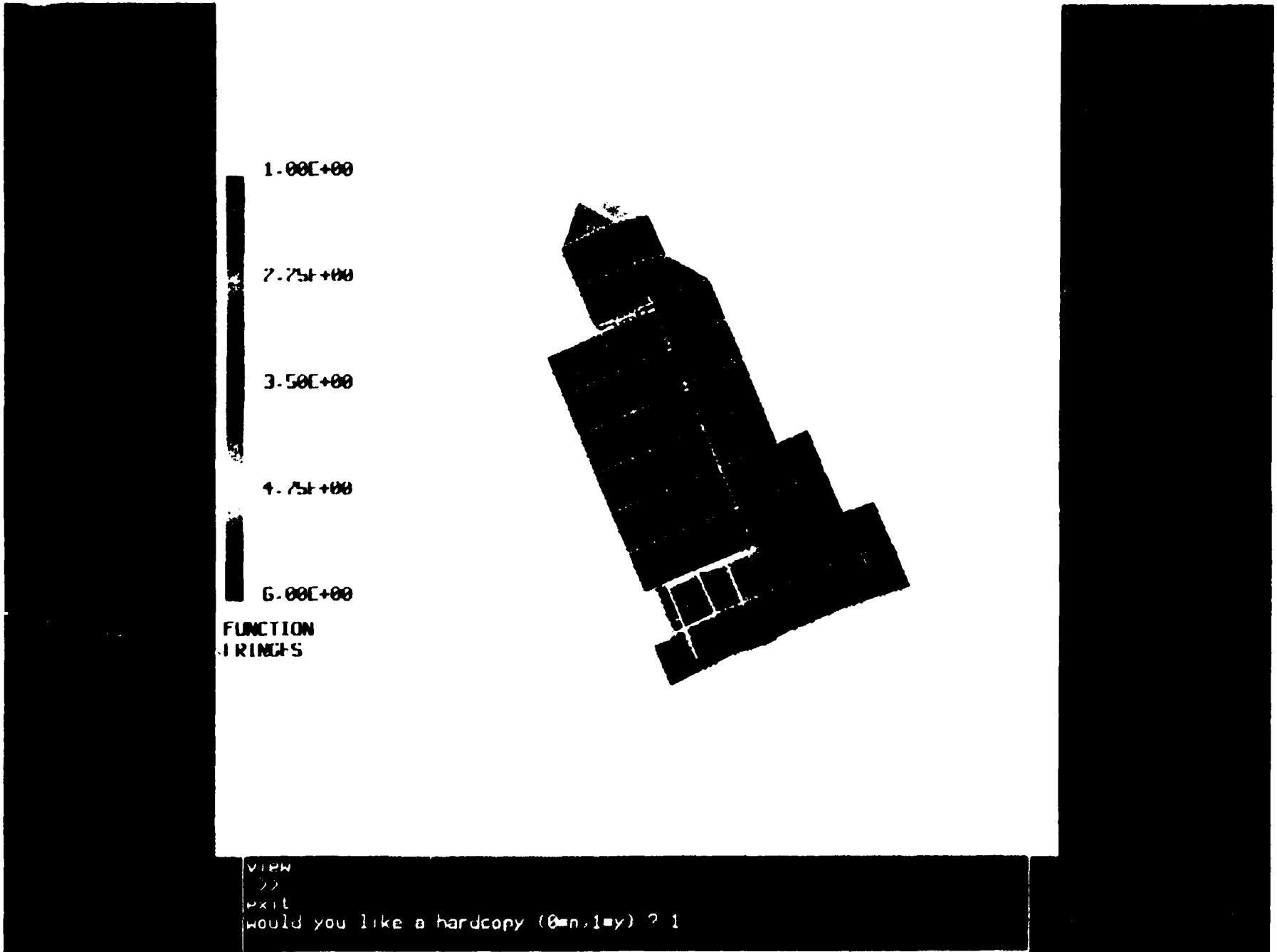
```
VMACH 0. 0. -1.
end
```

Micro Shuttle: First NTERAK Run Deck

```
BATCH
DEFAULT
ISTART NEW
IGICAL yes
EFLDCOR no
NADD 0
remark INPOT PRE
prechg no
POTVAL -50.
VMACH 0.0 0.0 8.0
MAXITS 2
MAXITC 15
POTCON 5
SQALPH 4.0
QBETA 1.0
remark PDIE 2.0
VLTFIX -0.05
RDRMIN 1.0D-20
   TEMP 0.1
   DENS 1.0E10
   DEN2 4.2E6
   TEMP2 4.3E3
   POWCO 1.4E12
   PALPHA 1.2
   GAUCO 8.8E5
   ENAUT 8.2E3
   DELTA 1.8E3
   PCUTL 50.0
   PCUTH 1000000.0
   RATIH 100.0
NXADNB 4
NXADNT 4
NYADNB 4
NYADNT 4
NZADON 3
NZTAIL 8
   STHPOT -0.1
   DVLIM 500.0
   condv 1 -50.
   DELTAT 0.3
   MAXITT 1
BFIELD ON
IBIAGS(1) 2
IBIAGS(2) 1
   IOGRID NO
   ISPOUT PART
   IOCONG NO
   INPOUT NO
  PWASON
ENDRUN
```

Micro Shuttle: Second NTERAK Run Deck

```
BATCH
DEFAULT
ISTART old
IGICAL old
EFLDCOR no
NADD 0
remark INPOT PRE
prechg no
POTVAL -50.
VMACH 0.0 0.0 8.0
MAXITS 2
MAXITC 15
POTCON 5
SQALPH 4.0
QBETA 1.0
remark PDIE 2.0
VLTFIX -0.05
RDRMIN 1.0D-20
   TEMP 0.1
   DENS 1.0E10
   DEN2 4.2E6
   TEMP2 4.3E3
   POWCO 1.4E12
   PALPHA 1.2
   GAUCO 8.8E5
   ENAUT 8.2E3
   DELTA 1.8E3
   PCUTL 50.0
   PCUTH 1000000.0
   RATIH 100.0
NXADNB 4
NXADNT 4
NYADNB 4
NYADNT 4
NZADON 3
NZTAIL 8
   STHPOT -0.1
   DVLIM 500.0
   condv 1 -50.
   DELTAT 0.3
   MAXITT 1
BFIELD ON
IBIAGS(1) 2
IBIAGS(2) 1
   IOGRID NO
   ISPOUT PART
   IOCONG NO
   INPOUT NO
curren
charge
pwason
ENDRUN
```


1.00E+00
7.75E+00
3.50E+00
4.75E+00
6.00E+00
FUNCTION
IRINGFS
VIEW
>>
Exit
Would you like a hardcopy (0=n,1=y) ? 1

Micro Shuttle POLAR 1.1 Results

```
-----POLAR 1.1.1 VEHICLE DEFINITION
asgf21 called for lun =  21
asgfil called for lun =  21
FastIO file opened -- lun =    21
asgfil called for lun =  14
asgfil called for lun =  27
asgfil called for lun =  17
asgfil called for lun =   3


  DEFAULTS SET
```

```
                                +++VERICL INPUT+++
          DEFAULT VALUES HAVE BEEN SET AUTOMATICALLY

          THE GRID SIZE MUST BE DEFINED BEFORE LEAVING THE INPUT SECTION.

 NEXT CARD PLEASE.
BATCH
remark MAKEPLOT 2
remark PLOTDIR 3. 1. -2.
remark PLOTDIR 3. 1. 2.
REMARK PLOTDIR 3. 5. 2.
REMARK PLOTDIR 2. 1. -3.
REMARK PLOTDIR 2. 3. -1.
remark PLOTDEST NONE
remark MATPLOTS YES
NXYZ 14 10 17
DXMESH 3.6
PREFIX MICS
END
 someone called asgner

  ADDITIONAL OUTPUT WILL BE ON UNIT 3.
```

Micro Shuttle POLAR 1.1 Results

```
  input - about to read from isat -    20

COMMENT    MATERIAL DEFINITIONS
  input - about to read from isat -    20

COMMENT    FOR PRESENT PURPOSES, ALL PROPERTIES ARE 'KAPTON'
  input - about to read from isat -    20

FRSI
    MATERIAL DEFINED
  input - about to read from isat -    20

HRSI
    MATERIAL DEFINED
  input - about to read from isat -    20

LRSI
    MATERIAL DEFINED
  input - about to read from isat -    20

LESS
    MATERIAL DEFINED
  input - about to read from isat -    20

COMMENT THIN PLATE ALONG SHUTTLE BOTTOM TO
  input - about to read from isat -    20

COMMENT SPECIFY BOTTOM AS TOP
  input - about to read from isat -    20

PLATE
 THIN PLATE NOW DEFINED.
                              6<X<  8
                              3<Y<  3
                              4<Z< 14

BOTTOM +Y FRSI
TOP -Y HRSI
ENDOBJ
  input - about to read from isat -    20

COMMENT FRONT END OF FUSELAGE
  input - about to read from isat -    20

RECTAN
 OBJECT NOW DEFINED.
                              6<X<  8
                              3<Y<  4
                             12<Z< 14

SURFACE +X FRSI
SURFACE -X FRSI
SURFACE -Y HRSI
SURFACE -Z FRSI
ENDOBJ
  input - about to read from isat -    20

WEDGE

CORN        7    4   12

FACE    FRSI       -1    1    0
LENGTH 1,1,2
SURFACE -Z FRSI
ENDOBJ
  input - about to read from isat -    20

WEDGE

CORN        7    4   12

FACE    FRSI        1    1    0
LENGTH 1,1,2
SURFACE -Z FRSI
ENDOBJ
  input - about to read from isat -    20

TETRAH

CORN        7    4   14

FACE    LRSI       -1    1    1

LENG        1
ENDOBJ
  input - about to read from isat -    20

TETRAH

CORN        7    4   14

FACE    LRSI        1    1    1

LENG        1
ENDOBJ
  input - about to read from isat -    20

WEDGE

CORN        7    3   14

FACE    LESS        1    0    1
LENGTH 1,1,1
SURFACE +Y LESS
SURFACE -Y LESS
ENDOBJ
  input - about to read from isat -    20

WEDGE

CORN        7    3   14

FACE    LESS       -1    0    1
LENGTH 1,1,1
SURFACE +Y LESS
SURFACE -Y LESS
ENDOBJ
  input - about to read from isat -    20

COMMENT CARGO BAY
  input - about to read from isat -    20

WEDGE

CORN        6    3    6

FACE    FRSI        1    1    0
LENGTH 1,1,6
SURFACE -Y HRSI
SURFACE -X FRSI
ENDOBJ
  input - about to read from isat -    20

WEDGE

CORN        8    3    6

FACE    FRSI       -1    1    0
LENGTH 1,1,6
SURFACE -Y HRSI
SURFACE +X FRSI
ENDOBJ
  input - about to read from isat -    20

WEDGE

CORN        6    3    4

FACE    FRSI       -1    1    0
```

Micro Shuttle POLAR 1.1 Results

```
LENGTH 1,1,8
SURFACE -Y HRSI
SURFACE -Z AQUA
ENDOBJ
  input - about to read from isat -    20

WEDGE

CORN        8    3    4

FACE    FRSI        1    1    8
LENGTH 1,1,8
SURFACE -Y HRSI
SURFACE -Z AQUA
ENDOBJ
  input - about to read from isat -    20

TETRAH

CORN        6    3   12

FACE    FRSI       -1    1    1

LENG        1
SURFACE -Y HRSI
ENDOBJ
  input - about to read from isat -    20

TETRAH

CORN        8    3   12

FACE    FRSI        1    1    1

LENG        1
SURFACE -Y HRSI
ENDOBJ
  input - about to read from isat -    20

COMMENT CARGO BAY DOORS...OPEN
  input - about to read from isat -    20

SLANT

CORN        6    5    6

TOP     FRSI       -1   -1    0

BOTT    RAPT
LENGTH 1,1,6
ENDOBJ
  input - about to read from isat -    20

SLANT

CORN        8    5    6

TOP     FRSI        1   -1    0

BOTT    RAPT
LENGTH 1,1,6
ENDOBJ
  input - about to read from isat -    20

COMMENT TAIL SECTION
  input - about to read from isat -    20

RECTAN
 OBJECT NOW DEFINED.
                                6<X<  8
                                3<Y<  5
                                4<Z<  6

SURFACE +X FRSI
SURFACE -X FRSI
SURFACE +Y FRSI
SURFACE -Y HRSI
SURFACE +Z FRSI
SURFACE -Z AQUA
ENDOBJ
  input - about to read from isat -    20

RECTAN
 OBJECT NOW DEFINED.
                                6<X<  8
                                4<Y<  5
                                5<Z<  6

SURFACE +X LRSI
SURFACE -X LRSI
SURFACE +Y LRSI
SURFACE +Z LRSI
ENDOBJ
  input - about to read from isat -    20

COMMENT TAIL RUDDER
  input - about to read from isat -    20

PLATE
 THIN PLATE NOW DEFINED.
                                7<X<  7
                                5<Y<  6
                                4<Z<  6

TOP +X LRSI
BOTTOM -X LRSI
ENDOBJ
  input - about to read from isat -    20

PLATE
 THIN PLATE NOW DEFINED.
                                7<X<  7
                                6<Y<  7
                                4<Z<  5

TOP +X LRSI
BOTTOM -X LRSI
ENDOBJ
  input - about to read from isat -    20

COMMENT WINGS
  input - about to read from isat -    20

COMMENT PORT WING
  input - about to read from isat -    20

PLATE
 THIN PLATE NOW DEFINED.
                                3<X<  6
                                3<Y<  3
                                4<Z<  6

TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
  input - about to read from isat -    20

PLATE
 THIN PLATE NOW DEFINED.
                                4<X<  6
                                3<Y<  5
                                6<Z<  8

TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
  input - about to read from isat -    20

COMMENT STARTBOARD WING
  input - about to read from isat -    20
```

Micro Shuttle POLAR 1.1 Results

```
PLATE
 THIN PLATE NOW DEFINED.
                                8<X< 11
                                3<Y<  3
                                4<Z<  6

TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
  input - about to read from isat =    20

PLATE
 THIN PLATE NOW DEFINED.
                                8<X< 10
                                3<Y<  3
                                6<Z<  8

TOP +Y FRSI
BOTTOM -Y HRSI
ENDOBJ
  input - about to read from isat =    20

ENDSAT
 ***** beginning cmprss for          226 surfaces
 ELAPSED:    0 00:00:26.13  CPU: 0:00:18.89  BUFIO: 22  DIRIO: 93  FAULTS: 301
*** exiting cmprss with          160 surfaces
 ELAPSED:    0 00:00:29.43  CPU: 0:00:22.19  BUFIO: 22  DIRIO: 93  FAULTS: 313
 BEGIN RTSUP
 ELAPSED:    0 00:00:29.61  CPU: 0:00:22.37  BUFIO: 22  DIRIO: 93  FAULTS: 315
 END RTSUP
 ELAPSED:    0 00:00:30.26  CPU: 0:00:22.91  BUFIO: 23  DIRIO: 96  FAULTS: 316

      136 VOLUME CELLS NUMBERED BY NUMLTB.
FastIO file opened -- lun =    17
 CLOSE CALLED FOR LUN=          20
frefil has been called for unit =          20
asgfil called for lun =  19
FastIO file opened -- lun =    19
***WARNING***openms - MS FILE 19 ALREADY OPEN.
CALLING GENMTL

  INSLST --  152 INSULATING SURFACE CELLS FOUND


FRSI HAS SURFACE RESISTIVITY OF    1.0E+16 OHMS
HRSI HAS SURFACE RESISTIVITY OF    1.0E+16 OHMS
LRSI HAS SURFACE RESISTIVITY OF    1.0E+16 OHMS
LESS HAS SURFACE RESISTIVITY OF    1.0E+16 OHMS
KAPT HAS SURFACE RESISTIVITY OF    1.0E+16 OHMS


 FNDSCE --  299 SURFACE CONDUCTING EDGES FOUND

       610 ENTRIES IN REVISED VTXL
END GENMTL
asgfil called for lun =  18
asgfil called for lun =  21
asgfil called for lun =  18
FastIO file opened -- lun =    18
 A2EDIT REDUCED A2S FROM  120 TO   55.
 2ND PHASE REDUCED A2S FROM   55 TO   47.
***WARNING***openms - MS FILE 18 ALREADY OPEN.
asgfil called for lun =  11
FastIO file opened -- lun =    11
***WARNING***openms - MS FILE 19 ALREADY OPEN.
FastIO error -- iostat of    36 on read of lun =    17,      2432 words read out of       9537


   26 DOUBLE PTS READ FROM NASCAP
asgfil called for lun =  23
FastIO file opened -- lun =    23
NROOT     4
   84684800           2   117989376           3   151810048           4

IB,IREC(IB)      2  499
   IA,IJK,JSTUFF     2       50864128      268497024
***BUFSET WARNING LCEL ALREADY IN CBUF, WITH  1 SLICES DECLARED. DATA IGNORED.
***BUFSET WARNING SREL ALREADY IN CBUF, WITH  1 SLICES DECLARED. DATA IGNORED.
***WARNING***openms - MS FILE 11 ALREADY OPEN.

  LSTINS --  152 INSULATING SURFACE CELLS FOUND

        NC DETERMINED BY PGETNC TO BE  1
```

Micro Shuttle POLAR 1.1 Results

```
-----POLAR 1.1.1 ORIENT-----
asgfil called for lun =  11
FastIO file opened -- lun =    11
asgfil called for lun =  19
FastIO file opened -- lun =    19
```

```
                              +++ORIENT INPUT SECTION+++
         THE ORIENTATION ACTION MUST BE DEFINED BEFORE LEAVING.
 NEXT CARD PLEASE.
VMACH 0. 0. -1.
 NEXT CARD PLEASE.
end
ORIINP-orient is going to rotate grid


ROTATING DOUBLE PT LIST WITH NUMDUB =          26
asgfil called for lun =  23
FastIO file opened -- lun =    23
NROOT     4
  101490688           2   151552000           3   185360384           4
IB,IREC(IB)       2  499
    IA,IJK,JSTUFF     2        34111488          16512
***BUFSET WARNING LCEL ALREADY IN CBUF, WITH  1 SLICES DECLARED. DATA IGNORED.
***BUFSET WARNING SREL ALREADY IN CBUF, WITH  1 SLICES DECLARED. DATA IGNORED.

  LSTINS --  152 INSULATING SURFACE CELLS FOUND

         NC DETERMINED BY PGETNC TO BE  1
orient is finished.
```

Micro Shuttle POLAR 1.1 Results

```
                                +++POLAR 1.1.1 NTERAK+++

asqfil called for lun =  11
FastIO file opened -- lun =    11
asqfil called for lun =   9
FastIO file opened -- lun =    9
asqfil called for lun =  19
FastIO file opened -- lun =    19
asqfil called for lun =  10
FastIO file opened -- lun =    10
asqfil called for lun =  23
asqfil called for lun =  24
```

```
                                                    +++NTERAK INPUT SECTION+++

  DEFAULTS SET
 NEXT CARD PLEASE.
BATCH
DEFAULT


  DEFAULTS SET
ISTART NEW
**CONDUCTOR VOLTAGES HAVE BEEN RESET TO DEFAULT VALUES.
IGICAL yes
EFLDCOR no
NADD 0
remark INPOT PRE
prechg no
POTVAL -50.
VMACH 0.0 0.0 8.0
MAXITS 2
MAXITC 15
POTCON 5
SQALPH 4.0
QBETA 1.0
remark PDIE 2.0
VLTFIX -0.05
RDRMIN 1.0D-20
   TEMP 0.1
   DENS 1.0E10
   DEN2 4.2E6
   TEMP2 4.3E3
   POWCO 1.4E12
   PALPHA 1.2
   GAUCO 8.8E5
   ENAUT 8.2E3
   DELTA 1.4E3
   PCUTL 50.0
   PCUTH 1000000.0
   RATIH 100.0
NXADNB 4
NXADNT 4
NYADNB 4
NYADNT 4
NZADON 3
NZTAIL 8
   STHPOT -0.1
   DVLIM 500.0
   condv 1 -50.
   DELTAT 0.3
   MAXITT 1
BFIELD ON
IBIAGS(1) 2
IBIAGS(2) 1
   IOGRID NO
   ISPOUT PART
   IOCONG NO
   INPOUT NO
  PWASON
 CURPOT DEFAULTED TO -0.45*TEMP,  -4.5000E-02
```

Micro Shuttle POLAR 1.1 Results

+++COMPUTATION SPACE+++

THE OBJECT(S) APPEAR TO LIE BETWEEN Z = 2 14

THE COMP GRID WILL BE SHIFTED BY ONE UNIT IN THE X OR Y DIRECTIONS
EVERY IDELX OR IDELY UNITS OF Z

IDELX = 200 IDELY = 200

SO THE COMP GRID NOW HAS THE FOLLOWING FEATURES:
THE X AND Y GRID GROWTH REQUIRED TO FIT THE OBJECT GRID IN THE DISPLACED COMP GRID IS,
NXGRTH = 0 NYGRTH = 0 .
CONSIDERING THE ADD-ONS THE NEW COMP GRID DIMENSIONS ARE:
NX = 22 NY = 18 NZ = 20

+++SPACECRAFT ENVIRONMENT+++

THE DEBYE LENGTH = 2.3496E-02
THE DIMENSIONLESS DEBYE LENGTH, DEBYDM = 6.5266E-03

PSIM = LN(SQALPH*DEBYE**2/DX**2) = -8.6774E+00 SQALPH = 4.0000E+00

STHPOT = -1.0000E-01
CURPOT= -4.5000E-02 CURPOT/TEMP= -4.5000E-01

BOUNDS ON MATERIAL CROSSOVER POINTS

MATERIAL	(#)	NUMBER OF PTS	VALUES(- TO +)	
FBSI	1	2	-1.0000E+04	-5.0000E-02
HRSI	2	2	-1.0000E+04	-5.0000E-02
LRSI	3	2	-1.0000E+04	-5.0000E-02
LESS	4	2	-1.0000E+04	-5.0000E-02
AQUA	5	2	-1.0000E+04	-5.0000E-02
KAPT	6	2	-1.0000E+04	-5.0000E-02

+++ ENVIRONMENTAL PARAMETERS FOR ELECTRONS +++
AMBIENT MAXWELLIAN, TEMP= 1.000E-01 EV, DENSITY= 1.000E+10/M3, FLUX= 5.2907E+14#/M2.S
ENERGETIC MAXWELLIAN, TEMP= 4.300E+03 EV, DENSITY= 4.200E+06/M3, FLUX= 4.6078E+13#/M2.S
POWER LAW ELEC, COEF=, 1.400E+12 ALPHA= 1.2000E+00
CUTOFFS, LOW= 5.000E+01 HIGH 1.0000E+06 EV,
FLUX = 3.201E+12 #/M2.S.
GAUSIAN ELECTRONS, COEF= 8.800E+05 ENAUT= 8.2000E+03 EV, DELTA= 1.800E+03 EV
FLUX= 2.3022E+13 #/M2.S.

+++ ENVIRONMENTAL PARAMETERS FOR IONS +++
MAXWELLIAN TEMP FOR ALL COMPONENTS = 1.000E-01EV,
RATIO OF IONS TO HYDROGEN = 1.000E+02, AMU IONS = 16.00
DENSITIES; DENH = 0.990E+08, DENI = 0.990E+10/M3
FLUXES; FNORMH = 1.223E+11, FNORMI = 3.056E+12#/M2.S.
V THERMAL = 7.7397E+02 M/S.
AND THE OBJECT VELOCITY IS 0.0000E+00, 0.0000E+00, 6.1917E+03, M/S
WARNINGopenms - MS FILE 11 ALREADY OPEN.

Micro Shuttle POLAR 1.1 Results

```
                    +++NOW WE CAN DO SOME $CIENCE+++


****** TIMER CALL FROM SCIENC ******

******  BEFORE INISET AND IONDEN *******
ELAPSED:    0 00:00:11.30  CPU: 0:00:07.50  BUFIO: 12  DIRIO: 130  FAULTS: 371

             ---CALCULATE INITIAL SURFACE VOLTAGES---

             INISET-POTVAL=    -5.0000E+01

             INISET IS USING THE FOLLOWING CONDUCTOR VOLTAGES
                          CONDUCTOR( 1) =  -5.0000E+01 VOLTS
      INISET-IBOMOF,BMAG,BDIR= ON     4.0000E-01  -1.0000E+00   0.0000E+00   0.0000E+00
      INISET-VMACH           =   0.0000E+00   0.0000E+00   8.0000E+00
      THE -VMACH CROSS B ELECTRIC FIELD IS :
          EVXB(X) =   0.000E+00 EVXB(Y) =   8.916E-01 EVXB(Z) =   0.000E+00
            MAGNITUDE =    8.916E-01 VOLTS PER METER


                    THE ENTIRE SRFV DATA IS AS FOLLOWS


             INFORMATION FOR SRFV LENGTH =    158

   +       0             1             2             3             4             5
   1 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   9 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  17 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  25 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  33 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  41 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  49 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  57 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  65 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  73 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  81 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  89 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  97 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
 105 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
 113 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
 121 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
 129 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
 137 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
 145 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
 153 -5.282343E+01 -5.267483E+01 -5.282343E+01 -5.178322E+01 -5.178322E+01
                    END OF SRFV DATA.

      CONDUCTOR VOLTAGES= -5.0000E+01

                    THE ENTIRE JFIX DATA IS AS FOLLOWS


             INFORMATION FOR JFIX LENGTH =    158

   +       0             1             2             3             4             5
   1             0             0             0             0             0             0
   9             0             0             0             0             0             0
  17             0             0             0             0             0             0
  25             0             0             0             0             0             0
  33             0             0             0             0             0             0
  41             0             0             0             0             0             0
  49             0             0             0             0             0             0
  57             0             0             0             0             0             0
  65             0             0             0             0             0             0
  73             0             0             0             0             0             0
  81             0             0             0             0             0             0
  89             0             0             0             0             0             0
  97             0             0             0             0             0             0
 105             0             0             0             0             0             0
 113             0             0             0             0             0             0
 121             0             0             0             0             0             0
 129             0             0             0             0             0             0
 137             0             0             0             0             0             0
 145             0             0             0             0             0             0
 153             1             1             1             1             1             1
                    END OF JFIX DATA.
```

Micro Shuttle POLAR 1.1 Results

```
                    ---CALCULATE THE ION DENSITIES---
                  IGICAL WAS SET TO YES
                  ION MASS IN AMU IS   16.00
                  ION TO HYDROGEN DENSITY RATIO IS   1.0000E+02
                  ION MACH VELOCITY IS       0.00   0.00   8.00
                  HYDROGEN MACH VELOCITY IS  0.00   0.00   2.00
 ELAPSED:    0 00:00:19.77  CPU: 0:00:11.07  BUFIO: 24  DIRIO: 313  FAULTS: 466
  THETA FACTOR SUM  =     1.0008E+00
  THETA FACTOR SUM  =     1.0001E+00
AVMACH =        8.0  einvrs =   3.6788E-01
 this calculation vs/vi =    1.000000
THETA MAX =        5.1

  $$$$$FROM IONDEN Z=  -3 FINISHED

  $$$$$FROM IONDEN Z=  -2 FINISHED

  $$$$$FROM IONDEN Z=  -1 FINISHED

  $$$$$FROM IONDEN Z=   0 FINISHED

  $$$$$FROM IONDEN Z=   1 FINISHED

  $$$$$FROM IONDEN Z=   2 FINISHED

  $$$$$FROM IONDEN Z=   3 FINISHED

  $$$$$FROM IONDEN Z=   4 FINISHED

  $$$$$FROM IONDEN Z=   5 FINISHED

  $$$$$FROM IONDEN Z=   6 FINISHED

  $$$$$FROM IONDEN Z=   7 FINISHED

  $$$$$FROM IONDEN Z=   8 FINISHED

  $$$$$FROM IONDEN Z=   9 FINISHED

  $$$$$FROM IONDEN Z=  10 FINISHED

  $$$$$FROM IONDEN Z=  11 FINISHED

  $$$$$FROM IONDEN Z=  12 FINISHED

  $$$$$FROM IONDEN Z=  13 FINISHED

  $$$$$FROM IONDEN Z=  14 FINISHED

  $$$$$FROM IONDEN Z=  15 FINISHED

  $$$$$FROM IONDEN Z=  16 FINISHED

  $$$$$FROM IONDEN Z=  17 FINISHED

  $$$$$FROM IONDEN Z=  18 FINISHED

  $$$$$FROM IONDEN Z=  19 FINISHED

  $$$$$FROM IONDEN Z=  20 FINISHED

  $$$$$FROM IONDEN Z=  21 FINISHED

  $$$$$FROM IONDEN Z=  22 FINISHED

  $$$$$FROM IONDEN Z=  23 FINISHED

  $$$$$FROM IONDEN Z=  24 FINISHED

  $$$$$FROM IONDEN Z=  25 FINISHED
LEAVING IONDEN, NUMAXG =   12
***WARNING***openms - MS FILE 11 ALREADY OPEN.
***WARNING***openms - MS FILE 19 ALREADY OPEN.

                ***CALCULATE AMBIENT ION CURRENTS***

 ****** TIMER CALL FROM SCIENC ******
ELAPSED:    0 00:57:48.96  CPU: 0:56:54.36  BUFIO: 241  DIRIO: 871  FAULTS: 657

                INFORMATION FOR SRFI LENGTH =   158

   +        0             1             2             3             4             5
   1  3.300116E-06  3.300116E-06  1.366861E-04  1.366861E-04  6.939250E-05  6.939250E-05  6.600
   9  6.600233E-06  6.600233E-06  9.334114E-06  9.334114E-06  3.300116E-06  6.600233E-06  6.600
  17  3.300116E-06  6.903408E-05  3.300116E-06  6.903408E-05  9.334114E-06  9.334114E-06  6.600
  25  6.600232E-06  6.600234E-06  9.334114E-06  2.231644E-09  6.312027E-09  2.231644E-09  6.312
  33  9.334114E-06  9.334114E-06  3.102252E-06  3.102252E-06  9.334114E-06  9.334114E-06  6.600
  41  6.600232E-06  6.600234E-06  9.334114E-06  3.248048E-08  3.248048E-08  9.334114E-06  9.334
  49  9.334114E-06  9.334114E-06  6.600232E-06  6.600233E-06  6.600233E-06  6.600232E-06  9.334
  57  2.115717E-07  9.334114E-06  9.334116E-06  9.334116E-06  9.334116E-06  9.334116E-06  6.600
  65  6.600234E-06  6.600233E-06  9.334114E-06  7.568141E-07  7.568141E-07  9.334114E-06  9.334
  73  9.334114E-06  9.334114E-06  6.600232E-06  6.600233E-06  6.600232E-06  6.600232E-06  6.600
  81  6.600232E-06  9.334114E-06  1.505644E-06  1.505644E-06  9.334114E-06  6.600232E-06  9.334
  89  9.334114E-06  9.334114E-06  6.600234E-06  6.600232E-06  6.600232E-06  6.600232E-06  6.600
  97  6.600232E-06  9.334114E-06  8.476583E-06  2.232902E-06  8.476583E-06  2.232902E-06  9.334
 105  9.263464E-06  9.263464E-06  6.657925E-05  6.657925E-05  9.263464E-06  9.263464E-06  6.600
 113  6.600232E-06  6.600232E-06  6.600232E-06  6.600234E-06  6.600232E-06  6.600232E-06  6.600
 121  9.045468E-06  9.045468E-06  6.600232E-06  6.600233E-06  6.600233E-06  6.600233E-06  6.600
 129  6.600233E-06  6.600233E-06  6.600233E-06  6.600234E-06  6.600233E-06  6.600232E-06  6.600
 137  6.600234E-06  6.600233E-06  6.600232E-06  6.600234E-06  8.311506E-06  8.311506E-06  6.600
 145  6.600233E-06  6.600233E-06  6.600232E-06  6.600232E-06  6.600232E-06  6.600232E-06  6.600
 153  2.278535E-06  1.460507E-08  1.460507E-08  2.278535E-06  1.529284E-08  1.529284E-08

        TOTAL ION CURRENT =  1.6499E-03 AMPS

 ****** TIMER CALL FROM SCIENC ******
ELAPSED:    0 00:57:52.56  CPU: 0:56:56.00  BUFIO: 244  DIRIO: 953  FAULTS: 663

DOUBLE POINT POTENTIALS
       WORD,   TOP,    BOTTOM
      24777   -5.0000E+01   -5.0000E+01
      28873   -5.0000E+01   -5.0000E+01
      28936   -5.0000E+01   -5.0000E+01
      28938   -5.0000E+01   -5.0000E+01
      32969   -5.0000E+01   -5.0000E+01
      33032   -5.0000E+01   -5.0000E+01
      33034   -5.0000E+01   -5.0000E+01
      37065   -5.0000E+01   -5.0000E+01
      37128   -5.0000E+01   -5.0000E+01
      37130   -5.0000E+01   -5.0000E+01
      41161   -5.0000E+01   -5.0000E+01
      41224   -5.0000E+01   -5.0000E+01
      41226   -5.0000E+01   -5.0000E+01
      45255   -5.0000E+01   -5.0000E+01
      45257   -5.0000E+01   -5.0000E+01
      45259   -5.0000E+01   -5.0000E+01
      45320   -5.0000E+01   -5.0000E+01
      45322   -5.0000E+01   -5.0000E+01
      49351   -5.0000E+01   -5.0000E+01
      49353   -5.0000E+01   -5.0000E+01
      49355   -5.0000E+01   -5.0000E+01
      53446   -5.0000E+01   -5.0000E+01
      53447   -5.0000E+01   -5.0000E+01
      53451   -5.0000E+01   -5.0000E+01
      53452   -5.0000E+01   -5.0000E+01
      53577   -5.0000E+01   -5.0000E+01
          0   -5.0000E+01   -5.0000E+01
```

Micro Shuttle POLAR 1.1 Results

```
                        +++CALCULATE SPACE POTENTIALS (PWASON)+++
                        THIS IS CYCLE   1 OF PWASON


 ****** TIMER CALL FROM SCIENC ******

 ****** BEFORE PWASON ******
ELAPSED:     0 00:57:54.35  CPU: 0:56:56.80  BUFIO: 252  DIRIO: 964  FAULTS: 666
icuren=      0
POTENTIALS will be found with a RMS error convergence limit =   5.0000E-02
 MAXITC =  15 MAXITS =   2
INITIAL RDOTR=0.177593D+06

***CONGRD ITERATION     1  COPROD OF U DOT MU
              UDOTMU =   9.630D+05 A =    1.844E-01 B =    2.278E-02
            RDOTR =  4.04550D+03
   ORIGINAL RDOTR =  1.77593E+05
        LAST RDOTR =  1.77593D+05
 (RDOTR ORIGINAL)/(RDOTR NEW) =  4.38990E+01
 LOG 10 OF RDOTR RATIO = CONV =  1.64245E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     2  COPROD OF U DOT MU
              UDOTMU =   2.395D+04 A =    1.689E-01 B =    3.417E-02
            RDOTR =  1.38242D+02
   ORIGINAL RDOTR =  1.77593E+05
        LAST RDOTR =  4.04550D+03
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.28466E+03
 LOG 10 OF RDOTR RATIO = CONV =  3.10879E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     3  COPROD OF U DOT MU
              UDOTMU =   7.950D+02 A =    1.739E-01 B =    2.624E-02
            RDOTR =  3.62785D+00
   ORIGINAL RDOTR =  1.77593E+05
        LAST RDOTR =  1.38242D+02
 (RDOTR ORIGINAL)/(RDOTR NEW) =  4.89528E+04
 LOG 10 OF RDOTR RATIO = CONV =  4.68978E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     4  COPROD OF U DOT MU
              UDOTMU =   2.112D+01 A =    1.718E-01 B =    3.126E-02
            RDOTR =  1.13395D-01
   ORIGINAL RDOTR =  1.77593E+05
        LAST RDOTR =  3.62785D+00
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.56614E+06
 LOG 10 OF RDOTR RATIO = CONV =  6.19483E+00  POTCON =  5.00000E+00
$$$CONGRD - RDOTR/RDRORG = 0.113395D+00/0.177593E+06 RDRMIN = 0.100000D-19
          AFTER     4 ITERATIONS

 CONGRD SATISFACTORALY CONVERGED


&& AFTER CONGRD, TOTAL SPCHG ITERATION COUNT, ITSPST =   1,   1TH ITERATION FOR THIS RUN
                GREETINGS FROM POTSET

        DOUBLE POINT POTENTIALS
       WORD,  TOP,    BOTTOM
              24777   -5.0000E+01   -5.0000E+01
              28873   -5.0000E+01   -5.0000E+01
              28936   -5.0000E+01   -5.0000E+01
              28938   -5.0000E+01   -5.0000E+01
              32969   -5.0000E+01   -5.0000E+01
              33032   -5.0000E+01   -5.0000E+01
              33034   -5.0000E+01   -5.0000E+01
              37065   -5.0000E+01   -5.0000E+01
              37128   -5.0000E+01   -5.0000E+01
              37130   -5.0000E+01   -5.0000E+01
              41161   -5.0000E+01   -5.0000E+01
              41224   -5.0000E+01   -5.0000E+01
              41226   -5.0000E+01   -5.0000E+01
              45255   -5.0000E+01   -5.0000E+01
              45257   -5.0000E+01   -5.0000E+01
              45259   -5.0000E+01   -5.0000E+01
              45320   -5.0000E+01   -5.0000E+01
              45322   -5.0000E+01   -5.0000E+01
              49351   -5.0000E+01   -5.0000E+01
              49353   -5.0000E+01   -5.0000E+01
              49355   -5.0000E+01   -5.0000E+01
              53446   -5.0000E+01   -5.0000E+01
              53447   -5.0000E+01   -5.0000E+01
              53451   -5.0000E+01   -5.0000E+01
              53452   -5.0000E+01   -5.0000E+01
              53577   -5.0000E+01   -5.0000E+01
                  0   -5.0000E+01   -5.0000E+01
INITIAL RDOTR=0.285159D+04

***CONGRD ITERATION     1  COPROD OF U DOT MU
              UDOTMU =   1.688D+04 A =    1.689E-01 B =    2.646E-02
            RDOTR =  7.54394D+01
   ORIGINAL RDOTR =  2.85159E+03
        LAST RDOTR =  2.85159D+03
 (RDOTR ORIGINAL)/(RDOTR NEW) =  3.77997E+01
 LOG 10 OF RDOTR RATIO = CONV =  1.57749E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     2  COPROD OF U DOT MU
              UDOTMU =   4.448D+02 A =    1.696E-01 B =    3.323E-02
            RDOTR =  2.50657D+00
   ORIGINAL RDOTR =  2.85159E+03
        LAST RDOTR =  7.54394D+01
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.13764E+03
 LOG 10 OF RDOTR RATIO = CONV =  3.05601E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     3  COPROD OF U DOT MU
              UDOTMU =   1.396D+01 A =    1.796E-01 B =    3.234E-02
            RDOTR =  8.10669D-02
   ORIGINAL RDOTR =  2.85159E+03
        LAST RDOTR =  2.50657D+00
 (RDOTR ORIGINAL)/(RDOTR NEW) =  3.51757E+04
 LOG 10 OF RDOTR RATIO = CONV =  4.54624E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     4  COPROD OF U DOT MU
              UDOTMU =   4.795D-01 A =    1.691E-01 B =    2.726E-02
            RDOTR =  2.20951D-03
   ORIGINAL RDOTR =  2.85159E+03
        LAST RDOTR =  8.10669D-02
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.29060E+06
 LOG 10 OF RDOTR RATIO = CONV =  6.11079E+00  POTCON =  5.00000E+00
$$$CONGRD - RDOTR/RDRORG = 0.220951D-02/0.285159E+04 RDRMIN = 0.100000D-19
          AFTER     4 ITERATIONS

 CONGRD SATISFACTORALY CONVERGED


&& AFTER CONGRD, TOTAL SPCHG ITERATION COUNT, ITSPST =   2,   2TH ITERATION FOR THIS RUN
                GREETINGS FROM POTSET

        DOUBLE POINT POTENTIALS
       WORD,  TOP,    BOTTOM
              24777   -5.0000E+01   -5.0000E+01
              28873   -5.0000E+01   -5.0000E+01
              28936   -5.0000E+01   -5.0000E+01
              28938   -5.0000E+01   -5.0000E+01
              32969   -5.0000E+01   -5.0000E+01
              33032   -5.0000E+01   -5.0000E+01
              33034   -5.0000E+01   -5.0000E+01
              37065   -5.0000E+01   -5.0000E+01
              37128   -5.0000E+01   -5.0000E+01
              37130   -5.0000E+01   -5.0000E+01
              41161   -5.0000E+01   -5.0000E+01
              41224   -5.0000E+01   -5.0000E+01
              41226   -5.0000E+01   -5.0000E+01
              45255   -5.0000E+01   -5.0000E+01
              45257   -5.0000E+01   -5.0000E+01
              45259   -5.0000E+01   -5.0000E+01
              45320   -5.0000E+01   -5.0000E+01
              45322   -5.0000E+01   -5.0000E+01
              49351   -5.0000E+01   -5.0000E+01
              49353   -5.0000E+01   -5.0000E+01
              49355   -5.0000E+01   -5.0000E+01
              53446   -5.0000E+01   -5.0000E+01
              53447   -5.0000E+01   -5.0000E+01
              53451   -5.0000E+01   -5.0000E+01
```

Micro Shuttle POLAR 1.1 Results

```
                53452   -5.0000E+01   -5.0000E+01
                53577   -5.0000E+01   -5.0000E+01
                    0   -5.0000E+01   -5.0000E+01
***BUFSET WARNING POT  ALREADY IN CBUF, WITH  2 SLICES DECLARED. DATA IGNORED.
 RMS error =   8.9258E-02 RMS convergence limit =   5.0000E-02
                GREETINGS FROM POTSET

      DOUBLE POINT POTENTIALS
     NORD,   TOP,    BOTTOM
                24777   -5.0000E+01   -5.0000E+01
                28873   -5.0000E+01   -5.0000E+01
                28936   -5.0000E+01   -5.0000E+01
                28938   -5.0000E+01   -5.0000E+01
                32969   -5.0000E+01   -5.0000E+01
                33032   -5.0000E+01   -5.0000E+01
                33034   -5.0000E+01   -5.0000E+01
                37065   -5.0000E+01   -5.0000E+01
                37128   -5.0000E+01   -5.0000E+01
                37130   -5.0000E+01   -5.0000E+01
                41161   -5.0000E+01   -5.0000E+01
                41224   -5.0000E+01   -5.0000E+01
                41226   -5.0000E+01   -5.0000E+01
                45255   -5.0000E+01   -5.0000E+01
                45257   -5.0000E+01   -5.0000E+01
                45259   -5.0000E+01   -5.0000E+01
                45320   -5.0000E+01   -5.0000E+01
                45322   -5.0000E+01   -5.0000E+01
                49351   -5.0000E+01   -5.0000E+01
                49353   -5.0000E+01   -5.0000E+01
                49355   -5.0000E+01   -5.0000E+01
                53446   -5.0000E+01   -5.0000E+01
                53447   -5.0000E+01   -5.0000E+01
                53451   -5.0000E+01   -5.0000E+01
                53452   -5.0000E+01   -5.0000E+01
                53577   -5.0000E+01   -5.0000E+01
                    0   -5.0000E+01   -5.0000E+01

                    THE ENTIRE POT  DATA IS AS FOLLOWS


                POT  INFORMATION FOR SLICE IZOB =   -2

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -3     -2     -1      0      1      2      3      4      5      6      7      8      9     10     11
  16     17     18
-3 1.E -4 *    -7.29  -7.60  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62
-7.62  -7.60  -7.29
-2 1.E -4 *    -7.60  -8.15  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.18  -8.18  -8.18  -8.19
-8.19  -8.16  -7.60
-1 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.24  -8.24  -8.23  -8.21  -8.17  -8.13  -8.11  -8.13  -8.17
-8.24  -8.19  -7.62
 0 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.24  -8.24  -8.24  -8.21  -8.12  -7.99  -7.86  -7.81  -7.86  -7.99
-8.24  -8.19  -7.62
 1 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.24  -8.24  -8.22  -8.14  -7.94  -7.65  -7.36  -7.22  -7.36  -7.65
-8.24  -8.19  -7.62
 2 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.24  -8.24  -8.21  -8.06  -7.73  -7.24  -6.74  -6.60  -6.74  -7.24
-8.24  -8.19  -7.62
 3 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.24  -8.24  -8.20  -7.99  -7.59  -6.90  -6.38  -6.05  -6.38  -6.91
-8.24  -8.19  -7.62
 4 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.24  -8.24  -8.20  -7.99  -7.59  -6.90  -6.38  -6.03  -6.38  -6.90
-8.24  -8.19  -7.62
 5 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.24  -8.24  -8.21  -8.06  -7.72  -7.22  -6.70  -6.58  -6.70  -7.22
-8.24  -8.19  -7.62
 6 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.24  -8.24  -8.22  -8.14  -7.93  -7.63  -7.33  -7.18  -7.33  -7.63
-8.24  -8.19  -7.62
 7 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.24  -8.23  -8.20  -8.11  -7.97  -7.83  -7.78  -7.84  -7.97
-8.24  -8.19  -7.62
 8 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.24  -8.24  -8.23  -8.21  -8.16  -8.12  -8.09  -8.12  -8.16
-8.23  -8.19  -7.62
 9 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.23  -8.24  -8.24  -8.24  -8.23  -8.22  -8.22  -8.22  -8.23
-8.23  -8.19  -7.62
10 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.24  -8.24  -8.24  -8.24  -8.24  -8.24  -8.24
-8.23  -8.19  -7.62
11 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.24  -8.24  -8.24  -8.24  -8.24  -8.24
-8.23  -8.19  -7.62
12 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23  -8.23
-8.23  -8.19  -7.62
13 1.E -4 *    -7.60  -8.15  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19
-8.19  -8.15  -7.60
14 1.E -4 *    -7.29  -7.60  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62  -7.62
-7.62  -7.60  -7.29

                POT  INFORMATION FOR SLICE IZOB =   -1

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -3     -2     -1      0      1      2      3      4      5      6      7      8      9     10     11
  16     17     18
-3 1.E -4 *    -7.60  -8.15  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.20  -8.20  -8.19  -8.19  -8.19  -8.19  -8.19
-8.19  -8.16  -7.60
-2 1.E -4 *    -8.15  -9.05  -9.11  -9.11  -9.11  -9.11  -9.11  -9.12  -9.11  -9.09  -9.05  -9.00  -8.98  -9.00  -9.05
-9.11  -9.05  -8.16
-1 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.18  -9.19  -9.18  -9.12  -9.02  -8.95  -8.90  -8.93  -8.90  -8.95
-9.19  -9.11  -8.19
 0 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.19  -9.19  -9.13  -8.96  -8.77  -8.69  -8.51  -8.33  -8.51  -8.69
-9.19  -9.11  -8.19
 1 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.19  -9.17  -9.02  -8.72  -8.43  -7.97  -7.82  -8.27  -7.82  -7.97
-9.19  -9.11  -8.19
 2 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.19  -9.16  -8.87  -8.54  -7.83  -7.22  -7.51  -6.17  -7.51  -7.22
-9.19  -9.11  -8.19
 3 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.19  -9.19  -9.15  -8.75  -8.51  -7.04  -7.54  -5.38  -7.54  -5.38  -7.54
-9.19  -9.12  -8.19
 4 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.19  -9.19  -9.15  -8.75  -8.48  -6.96  -7.47  -5.00  -7.52  -5.00  -7.47
-9.19  -9.12  -8.19
 5 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.19  -9.16  -8.86  -8.47  -7.67  -6.82  -7.21  -5.47  -7.21  -6.82
-9.19  -9.12  -8.19
 6 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.19  -9.18  -9.01  -8.64  -8.23  -7.55  -7.15  -7.66  -7.15  -7.55
-9.19  -9.11  -8.19
 7 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.19  -9.19  -9.12  -8.91  -8.59  -8.36  -8.04  -7.76  -8.04  -8.36
-9.19  -9.11  -8.19
 8 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.18  -9.19  -9.17  -9.10  -8.94  -8.76  -8.69  -8.72  -8.69  -8.76
-9.19  -9.11  -8.19
 9 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.18  -9.19  -9.19  -9.17  -9.13  -9.06  -8.98  -8.94  -8.98  -9.06
-9.18  -9.11  -8.19
10 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.19  -9.19  -9.18  -9.17  -9.17  -9.17  -9.18
-9.18  -9.11  -8.19
11 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.19  -9.19  -9.19  -9.19  -9.19  -9.19  -9.19
-9.18  -9.11  -8.19
12 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18  -9.18
-9.18  -9.11  -8.19
13 1.E -4 *    -8.15  -9.05  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11  -9.11
-9.11  -9.05  -8.15
14 1.E -4 *    -7.60  -8.15  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19  -8.19
-8.19  -8.15  -7.60

                POT  INFORMATION FOR SLICE IZOB =    0

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -3     -2     -1      0      1      2      3      4      5      6      7      8      9     10     11
  16     17     18
-3 1.E -4 *    -7.62  -8.19  -8.23  -8.23  -8.23  -8.23  -8.24  -8.24  -8.24  -8.24  -8.23  -8.22  -8.22  -8.22  -8.23
-8.24  -8.19  -7.62
-2 1.E -4 *    -8.19  -9.11  -9.18  -9.18  -9.18  -9.18  -9.19  -9.18  -9.14  -9.04  -8.88  -8.74  -8.69  -8.74  -8.88
-9.19  -9.11  -8.19
-1 1.E -4 *    -8.23  -9.18  -9.27  -9.27  -9.27  -9.27  -9.27  -9.20  -9.04  -8.93  -8.96  -8.84  -8.65  -8.84  -8.96
-9.27  -9.18  -8.23
 0 1.E -3 *    -0.82  -0.92  -0.93  -0.93  -0.93  -0.93  -0.92  -0.90  -0.89  -0.96  -1.19  -1.68  -2.03  -1.68  -1.19
-0.93  -0.92  -0.82
 1 1.E -3 *    -0.82  -0.92  -0.93  -0.92  -0.93  -0.93  -0.92  -0.87  -0.92   1.25  -2.27  -3.06  -2.72  -3.06  -2.27
-0.93  -0.92  -0.82
 2 1.E -3 *    -0.82  -0.92  -0.93  -0.93  -0.93  -0.93  -0.91  -0.85  -0.98  -1.91  -3.49  -4.15  -5.98  -4.15  -3.49
-0.93  -0.92  -0.82
 3 1.E -3 *    -0.82  -0.92  -0.93  -0.93  -0.93  -0.93  -0.90  -0.84  -0.98  -2.74  -3.22  -7.72  -5.13  -7.72  -3.22
-0.93  -0.92  -0.82
 4 1.E -3 *    -0.82  -0.92  -0.93  -0.93  -0.93  -0.93  -0.90  -0.84  -0.98  -2.75  -3.10  -8.11  -4.78  -8.11  -3.10
-0.93  -0.92  -0.82
 5 1.E -3 *    -0.82  -0.92  -0.93  -0.93  -0.93  -0.93  -0.91  -0.84  -0.98  -1.86   3.59  -3.75  -7.30  -3.75  -3.59
```

Micro Shuttle POLAR 1.1 Results

```
-0.93 -0.92 -0.82
 6 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.92 -0.86 -0.92 -1.21 -2.25 -3.17 -2.58 -3.17 -2.25
-0.93 -0.92 -0.82
 7 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.92 -0.89 -0.88 -0.96 -1.14 -1.61 -2.04 -1.61 -1.14
-0.93 -0.92 -0.82
 8 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.27 -9.27 -9.27 -9.17 -8.94 -8.82 -9.01 -8.84 -8.47 -8.84 -9.01
-9.27 -9.18 -8.23
 9 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.27 -9.26 -9.18 -9.02 -8.84 -8.77 -8.79 -8.77 -8.84
-9.27 -9.18 -8.23
10 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.26 -9.27 -9.27 -9.27 -9.24 -9.20 -9.16 -9.13 -9.16 -9.20
-9.27 -9.18 -8.23
11 1.E -4 *   -8.23 -9.18 -9.27 -9.27 -9.26 -9.27 -9.27 -9.27 -9.27 -9.28 -9.28 -9.28 -9.28 -9.28 -9.28
-9.27 -9.18 -8.23
12 1.E -4 *   -8.23 -9.18 -9.27 -9.27 -9.26 -9.26 -9.26 -9.26 -9.27 -9.27 -9.27 -9.27 -9.27 -9.27 -9.27
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =    1

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.22 -8.20 -8.18 -8.17 -8.18 -8.20
-8.24 -8.19 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.19 -9.19 -9.15 -9.02 -8.73 -8.36 -8.02 -7.84 -8.02 -8.36
-9.19 -9.11 -8.19
-1 1.E -4 *   -8.23 -9.18 -9.27 -9.27 -9.27 -9.27 -9.24 -9.06 -8.86 -8.80 -8.47 -8.56 -9.25 -8.56 -8.47
-9.28 -9.19 -8.24
 0 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.91 -0.87 -0.96 -1.45 -2.74 -3.56 -3.09 -3.56 -2.74
-0.93 -0.92 -0.82
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.13 -0.38 -1.14 -2.76 -4.32 -2.76 -1.14
-0.09 -0.09 -0.08
 2 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.19 -0.76 -3.32 -6.41 -4.26 -6.41 -3.32
-0.09 -0.09 -0.08
 3 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.03 -0.09 -0.64 -0.49 -1.43 -0.49 -0.64
-0.01 -0.01 -0.01
 4 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.03 -0.09 -0.66 -0.43 -1.48 -0.43 -0.66
-0.01 -0.01 -0.01
 5 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07 -0.19 -0.83 -3.22 -7.11 -3.91 -7.11 -3.22
-0.09 -0.09 -0.08
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.12 -0.45 -1.21 -2.69 -4.64 -2.69 -1.21
-0.09 -0.09 -0.08
 7 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.91 -0.83 -0.95 -1.66 -3.89 -5.26 -4.09 -5.26 -3.89
-0.93 -0.92 -0.82
 8 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.92 -0.89 -0.86 -0.93 -1.09 -1.54 -1.97 -1.54 -1.09
-0.93 -0.92 -0.82
 9 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.27 -9.27 -9.27 -9.19 -8.93 -8.56 -8.27 -7.91 -7.61 -7.91 -8.27
-9.27 -9.19 -8.23
10 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.26 -9.27 -9.27 -9.27 -9.24 -9.14 -8.99 -8.85 -8.80 -8.85 -8.99
-9.27 -9.18 -8.23
11 1.E -4 *   -8.23 -9.18 -9.27 -9.27 -9.27 -9.27 -9.27 -9.27 -9.28 -9.28 -9.27 -9.27 -9.27 -9.27 -9.27
-9.27 -9.18 -8.23
12 1.E -4 *   -8.23 -9.18 -9.27 -9.27 -9.26 -9.26 -9.27 -9.27 -9.27 -9.27 -9.28 -9.28 -9.28 -9.28 -9.28
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =    2

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.22 -8.19 -8.14 -8.10 -8.08 -8.10 -8.14
-8.24 -8.19 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.19 -9.17 -9.07 -8.75 -8.18 -7.43 -6.75 -6.60 -6.75 -7.43
-9.19 -9.11 -8.19
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.92 -0.89 -0.89 -0.86 -0.90 -1.00 -0.81 -1.00 -0.90
-0.93 -0.92 -0.82
 0 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.92 -0.88 -0.86 -1.27 -3.00 -4.75 -5.58 -9.48 -5.58 -4.75
-0.92 -0.92 -0.82
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.08 -0.26 -1.25 -4.88 -8.20 -5.10 -8.20 -4.88
-0.09 -0.09 -0.08
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.16 -0.56 -1.25 -0.56 -0.16
 0.00  0.00  0.00
 3 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.07 -0.21 -1.57 -0.16 -1.57 -0.21
 0.00  0.00  0.00
 4 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.07 -0.20 -1.69 -0.11 -1.69 -0.20
 0.00  0.00  0.00
 5 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.19 -0.48 -1.35 -0.48 -0.19
 0.00  0.00  0.00
 6 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.03 -0.15 -0.74 -1.33 -0.60 -1.33 -0.74
-0.01 -0.01 -0.01
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.13 -0.47 -1.23 -2.69 -4.64 -2.69 -1.23
-0.09 -0.09 -0.08
 8 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.91 -0.85 -0.91 -1.16 -2.19 -3.13 -2.56 -3.13 -2.19
-0.93 -0.92 -0.82
 9 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.27 -9.27 -9.23 -9.01 -8.59 -8.19 -7.91 -7.05 -7.91 -7.05 -7.91
-9.27 -9.19 -8.23
10 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.27 -9.24 -9.12 -8.86 -8.50 -8.17 -8.00 -8.17 -8.50
-9.27 -9.18 -8.23
11 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.26 -9.27 -9.27 -9.28 -9.28 -9.27 -9.25 -9.24 -9.23 -9.24 -9.25
-9.27 -9.18 -8.23
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.26 -9.26 -9.27 -9.27 -9.28 -9.28 -9.28 -9.29 -9.28 -9.28
-9.26 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =    3

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.24 -8.24 -8.23 -8.20 -8.14 -8.06 -7.99 -7.97 -7.99 -8.06
-8.24 -8.19 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.19 -9.19 -9.15 -8.92 -8.34 -7.39 -6.14 -5.29 -4.67 -5.29 -6.14
-9.19 -9.12 -8.19
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.92 -0.90 -0.89 -0.90 -0.87 -1.05 -0.81 -1.36 -0.81 -1.05
-0.92 -0.92 -0.82
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.22 -0.53 -0.71 -1.49 -0.82 -1.49 -0.71
-0.09 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.35 -1.03 -0.68 -2.20 -0.68 -1.03
-0.01 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.09 -0.61 -2.21  0.05 -2.21 -0.61
 0.00  0.00  0.00
 3 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.16 -0.48 -5.00 -0.48 -0.16
 0.00  0.00  0.00
 4 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.18 -0.28 -5.00 -0.28 -0.18
 0.00  0.00  0.00
 5 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.10 -0.59 -4.03  1.28 -4.03 -0.59
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -0.20 -0.48 -1.35 -0.48 -0.20
 0.00  0.00  0.00
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.31 -1.01 -3.44 -7.51 -4.34 -7.51 -3.44
-0.09 -0.09 -0.08
 8 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.92 -0.89 -0.87 -1.16 -2.53 -4.85 -5.26 -8.92 -5.26 -4.85
-0.92 -0.92 -0.82
 9 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.27 -9.25 -9.16 -8.82 -8.47 -7.49 -6.27 -6.36 -4.45 -6.36 -6.27
-9.25 -9.19 -8.24
10 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.25 -9.15 -8.86 -8.34 -7.67 -7.02 -6.86 -7.02 -7.67
-9.27 -9.18 -8.23
11 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.26 -9.27 -9.27 -9.28 -9.27 -9.25 -9.21 -9.18 -9.17 -9.18 -9.21
-9.27 -9.18 -8.23
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.26 -9.27 -9.27 -9.28 -9.28 -9.29 -9.29 -9.30 -9.29 -9.29
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.19 -9.19 -9.19 -9.19 -9.19
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =    4
```

Micro Shuttle POLAR 1.1 Results

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.24	-8.24	-8.24	-8.22	-8.17	-8.08	-7.96	-7.88	-7.84	-7.88	-7.96
-8.24 -8.19 -7.62															
-2 1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.19	-9.18	-9.09	-8.69	-7.82	-6.37	-4.76	-3.33	-3.02	-3.33	-4.76
-9.18 -9.12 -8.19															
-1 1.E -3 *	-8.82	-8.92	-8.93	-8.93	-8.93	-8.92	-8.89	-8.91	-8.89	-1.05	-1.09	-1.42	-1.06	-1.42	-1.09
-8.92 -8.92 -8.82															
0 1.E -2 *	-8.08	-8.09	-8.09	-8.09	-8.09	-8.09	-8.08	-8.11	-8.40	-8.67	-1.29	-1.38	-2.18	-1.38	-1.29
-8.09 -8.09 -8.08															
1 1.E -1 *	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.02	-8.12	-8.86	-1.24	-2.39	-1.62	-2.39	-1.24
-8.01 -8.01 -8.01															
2 1.E 0 *	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	-0.14	-1.67	-1.01	-2.43	-1.01	-1.67
0.00 0.00 0.00															
3 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.12	-5.00	-5.00	-5.00	-0.12
0.00 0.00 0.00															
4 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.11	-5.00	0.00	-5.00	-0.11
0.00 0.00 0.00															
5 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.20	-0.28	-5.00	-0.28	-0.20
0.00 0.00 0.00															
6 1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	-0.11	-0.23	-1.79	-0.20	-1.79	-0.23
0.00 0.00 0.00															
7 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.10	-0.32	-1.12	-0.93	-2.05	-0.93	-1.12
-0.01 -0.01 -0.01															
8 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.10	-0.22	-0.49	-0.57	-1.18	-0.81	-1.18	-0.57
-0.09 -0.09 -0.08															
9 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.21	-9.11	-8.80	-8.45	-6.84	-7.10	-3.61	-6.20	-3.61	-7.10
-9.21 -9.19 -8.24															
10 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.27	-9.26	-9.21	-8.98	-8.44	-7.59	-6.46	-5.67	-5.20	-5.67	-6.46
-9.27 -9.19 -8.23															
11 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.27	-9.27	-9.27	-9.25	-9.21	-9.16	-9.11	-9.10	-9.11	-9.16
-9.27 -9.18 -8.23															
12 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.26	-9.27	-9.27	-9.28	-9.29	-9.30	-9.31	-9.31	-9.31	-9.30
-9.27 -9.18 -8.23															
13 1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.19	-9.19	-9.19	-9.19
-9.18 -9.11 -8.19															
14 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23
-8.23 -8.19 -7.62															

POT INFORMATION FOR SLICE IZOB = 5

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.62	-8.19	-8.23	-8.24	-8.24	-8.24	-8.24	-8.21	-8.13	-8.01	-7.87	-7.76	-7.72	-7.76	-7.87
-8.24 -8.20 -7.62															
-2 1.E -4 *	-8.19	-9.11	-9.18	-9.19	-9.19	-9.17	-9.00	-8.41	-7.22	-5.32	-3.42	-1.71	-1.17	-1.71	-3.42
-9.18 -9.12 -8.19															
-1 1.E -3 *	-8.82	-8.92	-8.93	-8.93	-8.93	-8.91	-8.89	-8.92	-8.94	-1.22	-1.13	-1.53	-1.45	-1.53	-1.13
-8.91 -8.92 -8.82															
0 1.E -2 *	-8.08	-8.09	-8.09	-8.09	-8.09	-8.09	-8.08	-8.18	-8.54	-8.86	-1.90	-2.02	-2.45	-2.02	-1.90
-8.09 -8.09 -8.08															
1 1.E -1 *	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.04	-8.32	-1.23	-1.32	-2.69	-2.47	-2.69	-1.32
-8.01 -8.01 -8.01															
2 1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.07	-0.55	-2.69	-2.01	-3.07	-2.01	-2.69
0.00 0.00 0.00															
3 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.14	-0.26	-5.00	-5.00	-5.00	-0.26
0.00 0.00 0.00															
4 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.12	-0.48	-5.00	0.00	-5.00	-0.48
0.00 0.00 0.00															
5 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.14	-0.06	-0.80	-5.00	-0.80	-0.06
0.00 0.00 0.00															
6 1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.07	-0.48	-1.48	-2.59	-1.58	-2.59	-1.48
0.00 0.00 0.00															
7 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.03	-0.29	-0.72	-1.23	-1.54	-2.10	-1.54	-1.23
-0.01 -0.01 -0.01															
8 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.17	-0.35	-0.67	-1.13	-1.42	-1.56	-1.42	-1.13
-0.09 -0.09 -0.08															
9 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.13	-9.19	-8.80	-8.79	-7.18	-5.09	-3.03	-2.11	-3.03	-5.09
-9.17 -9.19 -8.24															
10 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.26	-9.13	-8.74	-7.91	-6.68	-5.33	-4.23	-3.85	-4.23	-5.33
-9.26 -9.19 -8.24															
11 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.27	-9.27	-9.26	-9.23	-9.17	-9.10	-9.05	-9.03	-9.05	-9.10
-9.27 -9.19 -8.23															
12 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.26	-9.27	-9.28	-9.29	-9.30	-9.31	-9.32	-9.32	-9.32	-9.31
-9.27 -9.18 -8.23															
13 1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.19	-9.19	-9.19	-9.20	-9.20	-9.20	-9.19
-9.18 -9.11 -8.19															
14 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23
-8.23 -8.19 -7.62															

POT INFORMATION FOR SLICE IZOB = 6

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.62	-8.19	-8.23	-8.24	-8.24	-8.24	-8.24	-8.19	-8.09	-7.94	-7.79	-7.66	-7.62	-7.66	-7.79
-8.25 -8.20 -7.62															
-2 1.E -4 *	-8.19	-9.11	-9.18	-9.19	-9.19	-9.16	-8.88	-8.11	-6.54	-4.43	-2.02	-0.39	0.33	-0.39	-2.02
-9.16 -9.12 -8.20															
-1 1.E -3 *	-8.82	-8.92	-8.93	-8.93	-8.93	-8.90	-8.91	-8.90	-1.11	-1.18	-1.66	-1.57	-1.76	-1.57	-1.66
-8.90 -8.92 -8.82															
0 1.E -2 *	-8.08	-8.09	-8.09	-8.09	-8.09	-8.08	-8.08	-8.28	-8.55	-1.40	-1.70	-2.65	-2.66	-2.65	-1.70
-8.08 -8.09 -8.08															
1 1.E -1 *	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.04	-8.68	-1.06	-2.72	-2.76	-3.23	-2.76	-2.72
-8.01 -8.01 -8.01															
2 1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.07	-1.63	-0.94	-2.74	-3.07	-2.74	-0.94
0.00 0.00 0.00															
3 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.04	-5.00	-5.00	0.00	-5.00	-5.00
0.00 0.00 0.00															
4 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.33	-0.85	-5.00	-5.00	-5.00	-0.85
0.00 0.00 0.00															
5 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.03	-5.00	-1.10	-5.00	-1.10	-5.00
0.00 0.00 0.00															
6 1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.07	-1.57	-0.34	-3.23	-0.82	-3.23	-0.34
0.00 0.00 0.00															
7 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.64	-0.69	-2.43	-1.54	-3.16	-1.54	-2.43
-0.01 -0.01 -0.01															
8 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.08	-0.09	-0.26	-0.40	-1.11	-0.96	-1.93	-1.28	-1.93	-0.96
-0.08 -0.09 -0.08															
9 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.03	-9.37	-8.70	-9.86	-6.00	-7.37	0.39	-3.81	0.39	-7.37
-9.04 -9.19 -8.24															
10 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.25	-9.04	-8.49	-7.34	-5.95	-4.24	-3.31	-2.66	-3.31	-4.24
-9.25 -9.19 -8.24															
11 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.27	-9.27	-9.27	-9.25	-9.21	-9.13	-9.07	-9.00	-8.99	-9.00	-9.07
-9.28 -9.19 -8.24															
12 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.27	-9.27	-9.28	-9.29	-9.30	-9.32	-9.33	-9.33	-9.33	-9.32
-9.27 -9.18 -8.23															
13 1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.19	-9.20	-9.20	-9.20	-9.20	-9.20
-9.18 -9.11 -8.19															
14 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23
-8.23 -8.19 -7.62															

POT INFORMATION FOR SLICE IZOB = 7

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.62	-8.19	-8.23	-8.24	-8.24	-8.24	-8.23	-8.17	-8.05	-7.88	-7.72	-7.59	-7.54	-7.59	-7.72
-8.25 -8.20 -7.62															
-2 1.E -4 *	-8.19	-9.11	-9.18	-9.19	-9.19	-9.12	-8.72	-7.73	-5.88	-3.51	-1.06	0.71	1.41	0.71	-1.06
-9.12 -9.12 -8.20															
-1 1.E -3 *	-8.82	-8.92	-8.93	-8.93	-8.92	-8.88	-8.91	-8.92	-1.17	-1.31	-1.62	-1.74	-1.93	-1.74	-1.62
-8.88 -8.92 -8.82															
0 1.E -2 *	-8.08	-8.09	-8.09	-8.09	-8.09	-8.08	-8.09	-8.37	-8.72	-1.59	-2.78	-2.91	-2.92	-2.91	-2.78
-8.08 -8.09 -8.08															
1 1.E -1 *	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01	-8.07	-8.88	-1.35	-2.50	-2.98	-3.53	-2.98	-2.50
-8.01 -8.01 -8.01															
2 1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.11	-1.99	-2.01	-3.07	-3.09	-3.07	-2.01
0.00 0.00 0.00															
3 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	-0.15	-5.00	-5.00	0.00	-5.00	-5.00
0.00 0.00 0.00															
4 1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.41	-1.36	-5.00	-2.78	0.00	-1.36
0.00 0.00 0.00															

Micro Shuttle POLAR 1.1 Results

```
  5 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.15 -5.00 -0.88 -0.32 -0.88 -5.00
 0.00  0.00  0.00
  6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.11 -1.96 -1.36 -2.80 -1.99 -2.80 -1.36
 0.00  0.00  0.00
  7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.84 -1.02 -2.13 -1.85 -2.38 -1.85 -2.13
-0.01 -0.01 -0.01
  8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.33 -0.51 -1.16 -1.38 -1.77 -1.70 -1.77 -1.38
-0.08 -0.09 -0.08
  9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.90 -0.95 -0.88 -1.01 -0.68 -0.47  0.07  0.12  0.07 -0.47
-0.90 -0.92 -0.82
 10 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.27 -9.24 -8.96 -8.27 -6.92 -5.32 -3.69 -2.63 -2.22 -2.63 -3.69
-9.24 -9.19 -8.24
 11 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.27 -9.27 -9.27 -9.24 -9.19 -9.11 -9.03 -8.97 -8.96 -8.97 -9.03
-9.28 -9.19 -8.24
 12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.27 -9.28 -9.29 -9.31 -9.33 -9.34 -9.34 -9.34 -9.33
-9.27 -9.18 -8.23
 13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.19 -9.19 -9.20 -9.20 -9.20 -9.21 -9.20 -9.20
-9.18 -9.11 -8.19
 14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =    8

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
   16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.23 -8.24 -8.24 -8.24 -8.21 -8.13 -8.00 -7.82 -7.65 -7.53 -7.49 -7.53 -7.65
-8.24 -8.20 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.18 -9.19 -9.18 -9.05 -8.48 -7.24 -5.13 -2.57 -0.12  1.53  2.18  1.53 -0.12
-9.05 -9.11 -8.20
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.92 -0.87 -0.93 -0.97 -1.27 -1.53 -1.83 -1.85 -2.01 -1.85 -1.83
-0.87 -0.91 -0.82
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.11 -0.49 -0.93 -1.70 -2.37 -3.10 -3.13 -3.10 -2.37
-0.08 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.13 -1.12 -1.88 -3.04 -3.21 -3.63 -3.21 -3.04
-0.01 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.17 -2.02 -2.02 -3.10 -3.10 -3.10 -2.02
 0.00  0.00  0.00
 3 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.03 -0.17 -5.00 -5.00  0.00 -5.00 -5.00
 0.00  0.00  0.00
 4 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.43 -1.33 -5.00 -2.22  0.00 -1.33
 0.00  0.00  0.00
 5 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.16 -5.00 -0.80 -0.51 -0.80 -5.00
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.13 -2.01 -1.32 -2.42 -0.92 -2.42 -1.32
 0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.07 -0.90 -1.20 -2.29 -1.77 -2.55 -1.77 -2.29
-0.01 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.08 -0.35 -0.60 -1.22 -1.31 -1.75 -1.42 -1.75 -1.31
-0.08 -0.09 -0.08
 9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.89 -0.94 -0.90 -1.00 -0.70 -0.54  0.12  0.06  0.12 -0.54
-0.89 -0.92 -0.82
10 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.27 -9.23 -8.91 -8.11 -6.62 -4.85 -3.17 -2.30 -1.94 -2.30 -3.17
-9.24 -9.19 -8.24
11 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.27 -9.28 -9.27 -9.24 -9.17 -9.05 -8.92 -8.80 -8.75 -8.80 -8.92
-9.28 -9.19 -8.24
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.27 -9.28 -9.30 -9.31 -9.32 -9.32 -9.33 -9.32 -9.32
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.19 -9.19 -9.20 -9.20 -9.21 -9.21 -9.21 -9.20
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =    9

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
   16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.24 -8.24 -8.24 -8.23 -8.19 -8.09 -7.94 -7.75 -7.59 -7.48 -7.44 -7.48 -7.59
-8.23 -8.20 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.19 -9.19 -9.14 -8.89 -8.11 -6.59 -4.24 -1.73  0.69  2.16  2.73  2.16  0.69
-8.90 -9.07 -8.20
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.92 -0.90 -0.88 -0.96 -1.05 -1.41 -1.46 -1.93 -1.92 -2.04 -1.92 -1.93
-0.88 -0.89 -0.82
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.21 -0.68 -1.15 -2.29 -2.60 -3.24 -3.29 -3.24 -2.60
-0.09 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.33 -1.42 -1.69 -3.21 -3.39 -3.65 -3.39 -3.21
-0.01 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.07 -0.52 -3.09 -2.44 -3.10 -3.11 -3.10 -2.44
 0.00  0.00  0.00
 3 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.14 -0.05 -5.00 -5.00  0.00 -5.00 -5.00
 0.00  0.00  0.00
 4 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.06 -0.53 -1.37 -5.00 -1.88  0.00 -1.37
 0.00  0.00  0.00
 5 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.16 -5.00 -0.80 -0.50 -0.80 -5.00
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.14 -2.02 -1.31 -2.41 -0.95 -2.41 -1.31
 0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.07 -0.91 -1.21 -2.27 -1.61 -2.28 -1.61 -2.27
-0.01 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.08 -0.35 -0.62 -1.31 -1.52 -2.04 -1.70 -2.04 -1.52
-0.08 -0.09 -0.08
 9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.89 -0.93 -0.89 -1.03 -0.83 -0.86 -0.68 -1.13 -0.68 -0.86
-0.89 -0.92 -0.83
10 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.28 -9.23 -8.89 -8.00 -6.36 -4.68 -3.41 -2.53 -1.87 -2.53 -3.41
-9.24 -9.20 -8.24
11 1.E -4 *   -8.23 -9.18 -9.27 -9.27 -9.27 -9.28 -9.28 -9.23 -9.11 -8.90 -8.72 -8.65 -8.68 -8.65 -8.72
-9.28 -9.19 -8.24
12 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.26 -9.27 -9.28 -9.28 -9.29 -9.28 -9.26 -9.22 -9.20 -9.22 -9.26
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.19 -9.19 -9.20 -9.20 -9.20 -9.20 -9.20 -9.20
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.23
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =   10

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
   16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.24 -8.24 -8.24 -8.22 -8.15 -8.03 -7.86 -7.69 -7.54 -7.45 -7.41 -7.45 -7.54
-8.22 -8.20 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.19 -9.18 -9.08 -8.65 -7.64 -5.76 -3.32 -0.68  1.32  2.68  3.07  2.68  1.32
-8.65 -9.01 -8.19
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.92 -0.89 -0.93 -0.97 -1.25 -1.47 -1.92 -1.87 -2.08 -2.03 -2.08 -1.87
-0.93 -0.88 -0.82
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.11 -0.42 -0.80 -1.61 -2.07 -3.07 -3.26 -3.44 -3.26 -3.07
-0.11 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.10 -0.87 -1.54 -3.06 -3.03 -3.60 -3.66 -3.60 -3.03
-0.02 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.10 -1.59 -1.39 -3.09 -3.09 -3.11 -3.09 -3.09
 0.00  0.00  0.00
 3 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.02 -5.00 -5.00 -5.00  0.00 -5.00 -5.00
 0.00  0.00  0.00
 4 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.17 -0.36 -1.46 -5.00 -1.50  0.00 -1.46
 0.00  0.00  0.00
 5 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -0.17 -5.00 -0.80 -0.49 -0.80 -5.00
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.14 -2.02 -1.35 -2.40 -1.09 -2.40 -1.35
 0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.07 -0.91 -1.27 -2.66 -2.48 -2.82 -2.48 -2.66
-0.01 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07 -0.33 -0.63 -1.53 -2.25 -4.08 -5.62 -4.08 -2.25
-0.08 -0.09 -0.08
 9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.89 -0.93 -0.85 -1.10 -1.43 -3.21 -3.75 -2.77 -3.75 -3.21
-0.89 -0.92 -0.83
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.92 -0.89 -0.79 -0.63 -0.55 -0.60 -1.02 -1.41 -1.02 -0.60
-0.92 -0.92 -0.82
11 1.E -4 *   -8.23 -9.18 -9.27 -9.27 -9.27 -9.28 -9.28 -9.20 -9.00 -8.76 -8.65 -8.41 -8.18 -8.41 -8.65
-9.28 -9.19 -8.24
12 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.26 -9.27 -9.28 -9.28 -9.26 -9.20 -9.08 -8.96 -8.92 -8.96 -9.08
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.19 -9.19 -9.20 -9.19 -9.19 -9.19 -9.19 -9.19
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24
-8.23 -8.19 -7.62
```

POT INFORMATION FOR SLICE IZOB = 11

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	16	17	18
-3	1.E -4 *	-7.62	-8.19	-8.24	-8.24	-8.23	-8.20	-8.11	-7.98	-7.80	-7.63	-7.50	-7.43	-7.40	-7.43	-7.50	-8.20	-8.19	-7.62
-2	1.E -4 *	-8.19	-9.11	-9.19	-9.17	-9.00	-8.39	-7.12	-4.98	-2.56	-0.05	1.76	2.65	3.15	2.85	1.76	-8.39	-8.93	-8.17
-1	1.E -3 *	-0.82	-0.92	-0.93	-0.91	-0.90	-0.96	-1.03	-1.42	-1.44	-1.87	-1.95	-2.07	-2.03	-2.07	-1.95	-0.96	-0.89	-0.81
0	1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.19	-0.59	-0.96	-2.14	-2.55	-3.18	-3.38	-3.53	-3.38	-3.18	-0.19	-0.09	-0.08
1	1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.30	-1.35	-1.51	-3.00	-3.32	-3.67	-3.68	-3.67	-3.32	-0.04	-0.01	-0.01
2	1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	-0.48	-3.05	-2.42	-3.09	-3.11	-3.11	-3.11	-3.09	0.00	0.00	0.00
3	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.13	0.00	-5.00	0.00	-5.00	0.00	-5.00	0.00	0.00	0.00	0.00
4	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.05	-0.32	-0.45	-1.49	-5.00	-1.20	0.00	-1.49	0.00	0.00	0.00
5	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.17	-5.00	-0.69	-0.61	-0.69	-5.00	0.00	0.00	0.00
6	1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.13	-2.00	-1.68	-4.73	-1.37	-4.73	-1.68	0.00	0.00	0.00
7	1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.09	-0.13	-0.34	-0.57	-1.46	-0.57	-0.34	0.00	0.00	0.00
8	1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.03	-0.06	-0.18	-0.61	-1.12	-0.46	-1.12	-0.61	-0.01	-0.01	-0.01
9	1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.08	-0.12	-0.32	-0.99	-2.43	-4.28	-2.43	-0.99	-0.09	-0.09	-0.08
10	1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.92	-0.89	-0.78	-0.68	-0.81	-1.70	-2.46	-1.90	-2.46	-1.70	-0.92	-0.92	-0.82
11	1.E -4 *	-8.23	-9.18	-9.27	-9.27	-9.27	-9.28	-9.27	-9.14	-8.93	-8.82	-8.51	-8.43	-9.01	-8.43	-8.51	-9.29	-9.19	-8.24
12	1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.27	-9.28	-9.27	-9.21	-9.04	-8.77	-8.51	-8.37	-8.51	-8.77	-9.27	-9.18	-8.23
13	1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.19	-9.19	-9.17	-9.16	-9.15	-9.16	-9.17	-9.18	-9.11	-8.19
14	1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.23	-8.19	-7.62

POT INFORMATION FOR SLICE IZOB = 12

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	16	17	18
-3	1.E -4 *	-7.62	-8.19	-8.24	-8.24	-8.23	-8.18	-8.09	-7.94	-7.76	-7.62	-7.51	-7.45	-7.45	-7.45	-7.51	-8.18	-8.18	-7.62
-2	1.E -4 *	-8.19	-9.11	-9.19	-9.16	-8.91	-8.21	-6.74	-4.63	-2.04	0.08	1.68	2.49	2.75	2.49	1.68	-8.22	-8.84	-8.16
-1	1.E -3 *	-0.82	-0.92	-0.93	-0.90	-0.92	-0.95	-1.17	-1.31	-1.85	-1.87	-2.01	-2.01	-2.10	-2.01	-2.01	-0.95	-0.92	-0.80
0	1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.29	-0.60	-1.42	-1.75	-2.75	-3.06	-3.36	-3.42	-3.36	-3.06	-0.29	-0.09	-0.08
1	1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.66	-1.17	-2.83	-2.96	-3.58	-3.68	-3.70	-3.68	-3.58	-0.04	-0.01	-0.01
2	1.E 0 *	0.00	0.00	0.00	0.00	0.00	-0.01	-0.06	-1.60	-1.36	-3.07	-3.09	-3.11	-3.12	-3.11	-3.09	-0.01	0.00	0.00
3	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	-5.00	-5.00	0.00	-5.00	0.00	-5.00	0.00	0.00	0.00	0.00
4	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.16	-0.14	-0.47	-1.38	-5.00	-5.00	-5.00	-1.38	0.00	0.00	0.00
5	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.05	-0.07	-5.00	-5.00	-5.00	-5.00	-5.00	0.00	0.00	0.00
6	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.16	-0.16	-0.25	-5.00	-0.25	-0.16	0.00	0.00	0.00
7	1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	-0.13	-0.31	-2.79	1.04	-2.79	-0.31	0.00	0.00	0.00
8	1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.12	-0.45	-1.26	-0.45	-0.12	0.00	0.00	0.00
9	1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.08	-0.12	-0.52	-2.85	-6.21	-3.29	-6.21	-2.85	-0.09	-0.09	-0.08
10	1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.93	-0.90	-0.77	-0.75	-1.48	-2.94	-3.17	-6.46	-3.17	-2.94	-0.93	-0.92	-0.82
11	1.E -4 *	-8.23	-9.18	-9.27	-9.27	-9.27	-9.28	-9.27	-9.08	-9.04	-8.82	-8.71	-9.54	-8.11	-9.54	-8.71	-9.29	-9.19	-8.24
12	1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.27	-9.27	-9.26	-9.14	-8.85	-8.42	-7.95	-7.64	-7.95	-8.42	-9.27	-9.18	-8.23
13	1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.19	-9.17	-9.15	-9.13	-9.11	-9.13	-9.15	-9.18	-9.11	-8.19
14	1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.23	-8.19	-7.62

POT INFORMATION FOR SLICE IZOB = 13

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	16	17	18
-3	1.E -4 *	-7.62	-8.19	-8.24	-8.24	-8.22	-8.18	-8.08	-7.95	-7.80	-7.66	-7.58	-7.53	-7.52	-7.53	-7.58	-8.18	-8.18	-7.62
-2	1.E -4 *	-8.19	-9.11	-9.18	-9.15	-8.88	-8.18	-6.72	-4.73	-2.52	-0.62	0.68	1.29	1.49	1.29	0.68	-8.19	-8.81	-8.16
-1	1.E -3 *	-0.82	-0.92	-0.93	-0.90	-0.94	-0.94	-1.21	-1.35	-1.59	-1.75	-1.94	-1.93	-2.00	-1.93	-1.94	-0.94	-0.93	-0.80
0	1.E -2 *	-0.08	-0.09	-0.09	-0.08	-0.09	-0.34	-0.58	-1.35	-2.03	-2.68	-2.95	-3.21	-3.24	-3.21	-2.95	-0.34	-0.09	-0.07
1	1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.80	-1.15	-2.21	-2.62	-3.19	-3.26	-3.29	-3.26	-3.19	-0.04	-0.01	-0.01
2	1.E 0 *	0.00	0.00	0.00	0.00	0.00	-0.01	-0.07	-1.94	-1.96	-3.06	-3.11	-3.12	-3.13	-3.12	-3.11	-0.01	0.00	0.00
3	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.10	-5.00	0.00	0.00	-5.00	-5.00	-5.00	0.00	0.00	0.00	0.00
4	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.19	-0.20	-0.37	-1.07	-5.00	0.00	-5.00	-1.07	0.00	0.00	0.00
5	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.03	-0.18	-0.08	-5.00	0.00	-5.00	-0.08	0.00	0.00	0.00
6	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.05	-0.31	-0.37	-5.00	-0.37	-0.31	0.00	0.00	0.00
7	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.14	-5.00	-0.14	-0.03	0.00	0.00	0.00
8	1.E 0 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.10	-1.54	0.05	-1.54	-0.10	0.00	0.00	0.00
9	1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.05	-0.59	-0.35	-1.38	-0.35	-0.59	-0.01	-0.01	-0.01
10	1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.90	-0.78	-0.78	-2.37	-2.53	-7.25	-4.01	-7.25	-2.53	-0.93	-0.92	-0.82
11	1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.93	-0.90	-0.93	-0.86	-1.00	-0.83	-1.10	-0.83	-1.00	-0.93	-0.92	-0.82
12	1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.27	-9.27	-9.25	-9.08	-8.74	-8.13	-7.67	-7.34	-7.67	-8.13	-9.27	-9.18	-8.23
13	1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.18	-9.16	-9.13	-9.10	-9.09	-9.10	-9.13	-9.18	-9.11	-8.19
14	1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.24	-8.23	-8.19	-7.62

POT INFORMATION FOR SLICE IZOB = 14

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	16	17	18
-3	1.E -4 *	-7.62	-8.19	-8.24	-8.24	-8.23	-8.19	-8.11	-8.00	-7.88	-7.78	-7.72	-7.70	-7.69	-7.70	-7.72	-8.19	-8.18	-7.62
-2	1.E -4 *	-8.19	-9.11	-9.18	-9.15	-8.93	-8.33	-7.11	-5.49	-3.60	-2.17	-1.23	-0.85	-0.74	-0.85	-1.23	-8.33	-8.86	-8.16
-1	1.E -3 *	-0.82	-0.92	-0.93	-0.90	-0.93	-0.94	-1.14	-1.23	-1.66	-1.69	-1.87	-1.90	-1.94	-1.90	-1.87	-0.94	-0.93	-0.80
0	1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.29	-0.51	-1.19	-1.42	-2.10	-2.34	-2.56	-2.61	-2.56	-2.34	-0.29	-0.09	-0.08
1	1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.64	-0.91	-2.06	-2.44	-2.92	-2.99	-2.98	-2.99	-2.92	-0.04	-0.01	-0.01
2	1.E 0 *	0.00	0.00	0.00	0.00	0.00	-0.01	-0.05	-1.57	-0.90	-1.99	-2.04	-2.12	-2.20	-2.12	-2.04	-0.01	0.00	0.00
3	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	-5.00	-5.00	-5.06	-5.14	-5.13	-5.14	-5.06	0.00	0.00	0.00
4	1.E 1 *	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.16	-0.09	-0.21	-0.71	-5.15	-5.22	-5.15	-0.71			

Micro Shuttle POLAR 1.1 Results

```
 0.00  0.00  0.00
 5 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.01 -0.03 -0.06 -0.14 -5.06 -5.06 -5.06 -0.14
 0.00  0.00  0.00
 6 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.17 -0.16 -5.00 -0.16 -0.17
 0.00  0.00  0.00
 7 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.03 -0.10 -5.00 -0.10 -0.03
 0.00  0.00  0.00
 8 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.08 -1.54  0.06 -1.54 -0.08
 0.00  0.00  0.00
 9 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.59 -0.34 -1.36 -0.34 -0.59
-0.01 -0.01 -0.01
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.91 -0.81 -0.83 -2.48 -2.58 -7.36 -4.17 -7.36 -2.58
-0.93 -0.92 -0.82
11 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.93 -0.91 -0.93 -0.87 -1.02 -0.86 -1.13 -0.86 -1.02
-0.93 -0.92 -0.82
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.27 -9.25 -9.08 -8.75 -8.13 -7.67 -7.35 -7.67 -8.13
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.19 -9.18 -9.16 -9.13 -9.09 -9.08 -9.09 -9.13
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =   15

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.24 -8.24 -8.23 -8.20 -8.15 -8.08 -8.00 -7.94 -7.93 -7.93 -7.94 -7.93 -7.93
-8.20 -8.19 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.18 -9.16 -9.01 -8.58 -7.76 -6.58 -5.41 -4.45 -3.98 -3.88 -3.89 -3.88 -3.98
-8.59 -8.94 -8.17
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.91 -0.92 -0.94 -1.02 -1.20 -1.25 -1.47 -1.62 -1.72 -1.77 -1.72 -1.62
-0.94 -0.91 -0.81
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.19 -0.42 -0.68 -1.26 -1.54 -1.81 -1.97 -2.00 -1.97 -1.81
-0.19 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.29 -0.79 -0.93 -1.37 -1.63 -1.72 -1.78 -1.72 -1.63
-0.04 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.06 -0.46 -1.58 -2.00 -2.14 -2.19 -2.17 -2.19 -2.14
 0.00  0.00  0.00
 3 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -1.14  0.04 -1.15 -1.25 -4.06 -6.57 -4.06 -1.25
-0.01  0.00  0.00
 4 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.05 -0.16 -0.22 -0.32 -0.68 -1.45 -0.68 -0.32
 0.00  0.00  0.00
 5 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.08 -0.11 -0.25 -1.93 -3.76 -7.58 -3.76 -1.93
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.11 -0.63 -3.17 -1.97 -3.17 -0.63
 0.00  0.00  0.00
 7 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -0.15 -1.60  0.00 -1.60 -0.15
 0.00  0.00  0.00
 8 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.08 -0.46 -1.15 -0.46 -0.08
 0.00  0.00  0.00
 9 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.10 -0.41 -2.82 -5.80 -3.47 -5.80 -2.82
-0.09 -0.09 -0.08
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.92 -0.85 -0.88 -1.75 -3.14 -3.60 -6.48 -3.60 -3.14
-0.93 -0.92 -0.82
11 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.93 -0.91 -0.92 -0.91 -0.93 -1.02 -0.90 -1.02 -0.93
-0.93 -0.92 -0.82
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.27 -9.25 -9.13 -8.85 -8.42 -7.96 -7.85 -7.96 -8.42
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.16 -9.14 -9.11 -9.10 -9.11 -9.14
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =   16

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.24 -8.24 -8.23 -8.22 -8.19 -8.16 -8.13 -8.13 -8.19 -8.25 -8.28 -8.25 -8.19
-8.22 -8.19 -7.62
-2 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.10 -8.86 -8.41 -7.78 -7.16 -6.87 -6.93 -7.17 -7.30 -7.17 -6.93
-8.07 -9.03 -8.18
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.92 -0.91 -0.92 -0.96 -1.05 -1.25 -1.45 -1.67 -1.85 -1.91 -1.85 -1.67
-0.93 -0.90 -0.82
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.12 -0.25 -0.44 -0.58 -0.80 -1.02 -1.16 -1.22 -1.16 -1.02
-0.12 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.09 -0.30 -0.67 -0.92 -1.05 -1.11 -1.12 -1.11 -1.05
-0.02 -0.01 -0.01
 2 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.03 -0.24 -0.61 -0.63 -1.13 -1.77 -2.78 -3.41 -2.78 -1.77
-0.03 -0.01 -0.01
 3 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.03 -0.39 -0.38 -1.88 -2.18 -4.09 -6.66 -8.23 -6.66 -4.09
-0.03 -0.01 -0.01
 4 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.03 -0.24 -0.61 -0.71 -1.64 -3.73 -8.31 -8.58 -8.31 -3.73
-0.03 -0.01 -0.01
 5 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.09 -0.30 -0.74 -1.61 -3.01 -6.96 -7.98 -6.96 -3.01
-0.02 -0.01 -0.01
 6 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.05 -0.11 -0.47 -1.87 -2.60 -4.32 -2.60 -1.87
-0.01 -0.01 -0.01
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.16 -0.95 -1.09 -2.29 -1.09 -0.95
-0.01 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07 -0.14 -0.59 -3.20 -6.27 -3.97 -6.27 -3.20
-0.09 -0.09 -0.08
 9 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.10 -0.26 -0.88 -2.39 -3.89 -2.39 -0.88
-0.09 -0.09 -0.08
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.93 -0.89 -0.91 -1.18 -2.15 -2.89 -2.52 -2.89 -2.15
-0.93 -0.92 -0.82
11 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.27 -9.27 -9.27 -9.20 -9.12 -9.22 -9.18 -9.37 -9.94 -9.37 -9.18
-9.28 -9.19 -8.23
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.26 -9.27 -9.26 -9.20 -9.03 -8.77 -8.51 -8.38 -8.51 -8.77
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.17 -9.16 -9.14 -9.14 -9.14 -9.16
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =   17

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.62 -8.19 -8.23 -8.24 -8.24 -8.23 -8.23 -8.23 -8.25 -8.35 -8.50 -8.63 -8.69 -8.63 -8.50
-8.23 -8.19 -7.62
-2 1.E -3 *   -0.87 -0.91 -0.92 -0.92 -0.92 -0.91 -0.89 -0.87 -0.87 -0.91 -0.96 -1.02 -1.04 -1.02 -0.96
-0.91 -0.91 -0.87
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.92 -0.92 -0.91 -0.94 -1.00 -1.13 -1.39 -1.72 -2.00 -2.11 -2.00 -1.72
-0.91 -0.91 -0.82
 0 1.E -3 *   -0.82 -0.92 -0.93 -0.92 -0.91 -0.97 -1.27 -2.15 -3.66 -5.30 -6.93 -8.18 -8.61 -8.18 -6.93
-0.98 -0.90 -0.81
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.12 -0.24 -0.43 -0.66 -1.13 -1.76 -2.38 -2.67 -2.38 -1.76
-0.12 -0.09 -0.08
 2 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.16 -0.32 -0.64 -1.74 -2.98 -4.75 -6.42 -7.05 -6.42 -4.75
-0.16 -0.09 -0.08
 3 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.03 -0.11 -0.19 -0.46 -0.80 -1.39 -1.73 -1.39 -0.80
-0.02 -0.01 -0.01
 4 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.03 -0.07 -0.22 -0.46 -0.90 -1.77 -2.52 -1.77 -0.90
-0.02 -0.01 -0.01
 5 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.05 -0.11 -0.26 -0.61 -1.20 -1.67 -1.20 -0.61
-0.01 -0.01 -0.01
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.10 -0.13 -0.26 -0.64 -1.58 -3.18 -6.22 -7.09 -6.22 -3.18
-0.10 -0.09 -0.08
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.10 -0.12 -0.23 -0.72 -1.35 -2.62 -2.77 -2.62 -1.35
-0.09 -0.09 -0.08
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.13 -0.30 -0.61 -0.86 -1.25 -0.86 -0.61
-0.09 -0.09 -0.08
 9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.93 -0.91 -1.01 -1.45 -2.64 -3.49 -3.16 -3.49 -2.64
-0.93 -0.92 -0.82
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.93 -0.92 -0.92 -1.00 -1.22 -1.69 -2.04 -1.69 -1.22
-0.93 -0.92 -0.82
11 1.E -4 *   -8.23 -9.18 -9.26 -9.27 -9.26 -9.27 -9.27 -9.25 -9.19 -9.17 -9.31 -9.31 -9.19 -9.31 -9.31
-9.27 -9.18 -8.23
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.26 -9.27 -9.26 -9.24 -9.18 -9.06 -8.94 -8.90 -8.94 -9.06
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.18 -9.17 -9.17 -9.16 -9.17 -9.17
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.24
-8.23 -8.19 -7.62
```

Micro Shuttle POLAR 1.1 Results

POT INFORMATION FOR SLICE IZOB = 18

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.62	-8.19	-8.23	-8.24	-8.24	-8.24	-8.25	-8.28	-8.40	-8.62	-8.88	-9.13	-9.24	-9.13	-8.88
-8.24 -8.19 -7.62															
-2 1.E -3 *	-0.82	-0.91	-0.92	-0.92	-0.92	-0.92	-0.92	-0.93	-0.98	-1.07	-1.17	-1.26	-1.29	-1.26	-1.17
-0.92 -0.91 -0.82															
-1 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.92	-0.92	-0.94	-1.04	-1.26	-1.63	-2.07	-2.45	-2.61	-2.45	-2.07
-0.92 -0.92 -0.82															
0 1.E -3 *	-0.82	-0.92	-0.93	-0.92	-0.92	-0.93	-1.03	-1.32	-1.92	-3.06	-4.66	-6.08	-6.63	-6.08	-4.66
-0.93 -0.91 -0.82															
1 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.12	-0.21	-0.42	-0.77	-1.18	-1.52	-1.66	-1.52	-1.18
-0.10 -0.09 -0.08															
2 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.15	-0.35	-0.87	-1.71	-2.72	-3.66	-4.04	-3.66	-2.72
-0.10 -0.09 -0.08															
3 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.04	-0.13	-0.28	-0.48	-0.81	-1.07	-0.81	-0.48
-0.01 -0.01 -0.01															
4 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.04	-0.12	-0.28	-0.50	-1.03	-1.41	-1.03	-0.50
-0.01 -0.01 -0.01															
5 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.14	-0.32	-0.77	-1.69	-3.33	-6.99	-9.53	-6.99	-3.33
-0.10 -0.09 -0.08															
6 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.12	-0.20	-0.40	-0.81	-1.74	-3.11	-3.89	-3.11	-1.74
-0.10 -0.09 -0.08															
7 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.11	-0.14	-0.23	-0.43	-0.80	-1.30	-1.61	-1.30	-0.80
-0.09 -0.09 -0.08															
8 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.94	-0.98	-1.10	-1.45	-2.14	-3.40	-4.80	-5.22	-4.80	-3.40
-0.94 -0.92 -0.82															
9 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.95	-0.99	-1.09	-1.31	-1.58	-1.83	-1.97	-1.83	-1.58
-0.93 -0.92 -0.82															
10 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.93	-0.94	-0.96	-1.00	-1.06	-1.09	-1.10	-1.09	-1.06
-0.93 -0.92 -0.82															
11 1.E -4 *	-8.23	-9.18	-9.26	-9.27	-9.26	-9.27	-9.28	-9.29	-9.30	-9.32	-9.40	-9.55	-9.64	-9.55	-9.40
-9.27 -9.18 -8.23															
12 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.26	-9.26	-9.27	-9.27	-9.26	-9.24	-9.21	-9.20	-9.21	-9.24
-9.26 -9.18 -8.23															
13 1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18
-9.18 -9.11 -8.19															
14 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.24	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23
-8.23 -8.19 -7.62															

POT INFORMATION FOR SLICE IZOB = 19

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.24	-8.27	-8.36	-8.59	-8.97	-9.39	-9.77	-9.93	-9.77	-9.39
-8.24 -8.19 -7.62															
-2 1.E -3 *	-0.82	-0.91	-0.92	-0.92	-0.92	-0.92	-0.94	-0.98	-1.07	-1.20	-1.45	-1.47	-1.52	-1.47	-1.35
-0.92 -0.91 -0.82															
-1 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.94	-0.98	-1.13	-1.41	-1.89	-2.46	-2.93	-3.12	-2.93	-2.46
-0.94 -0.92 -0.82															
0 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.96	-1.09	-1.49	-2.32	-3.69	-5.44	-6.93	-7.51	-6.93	-5.44
-0.96 -0.92 -0.82															
1 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.13	-0.24	-0.46	-0.84	-1.24	-1.57	-1.71	-1.57	-1.24
-0.10 -0.09 -0.08															
2 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.16	-0.38	-0.89	-1.66	-2.54	-3.42	-3.79	-3.42	-2.54
-0.10 -0.09 -0.08															
3 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.11	-0.19	-0.49	-1.26	-2.49	-4.17	-6.74	-8.34	-6.74	-4.17
-0.11 -0.09 -0.08															
4 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.05	-0.13	-0.26	-0.45	-0.84	-1.12	-0.84	-0.45
-0.01 -0.01 -0.01															
5 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.11	-0.17	-0.38	-0.86	-1.71	-3.19	-6.02	-7.92	-6.02	-3.19
-0.11 -0.09 -0.08															
6 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.14	-0.24	-0.42	-0.80	-1.44	-2.95	-3.52	-2.95	-1.44
-0.10 -0.09 -0.08															
7 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.12	-0.17	-0.27	-0.48	-0.85	-1.32	-1.54	-1.32	-0.85
-0.10 -0.09 -0.08															
8 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.96	-1.04	-1.27	-1.72	-2.52	-3.95	-5.31	-5.78	-5.31	-3.95
-0.96 -0.92 -0.82															
9 1.E -3 *	-0.82	-0.92	-0.93	-0.92	-0.93	-0.94	-0.97	-1.05	-1.23	-1.50	-1.83	-2.12	-2.24	-2.12	-1.83
-0.94 -0.92 -0.82															
10 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.94	-0.96	-1.01	-1.08	-1.15	-1.21	-1.24	-1.21	-1.15
-0.93 -0.92 -0.82															
11 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.27	-9.28	-9.33	-9.43	-9.59	-9.75	-9.89	-9.96	-9.89	-9.75
-9.27 -9.18 -8.23															
12 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.26	-9.27	-9.28	-9.30	-9.34	-9.37	-9.38	-9.37	-9.34	
-9.26 -9.18 -8.23															
13 1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.19	-9.19	-9.19	-9.19	-9.19
-9.18 -9.11 -8.19															
14 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23
-8.23 -8.19 -7.62															

POT INFORMATION FOR SLICE IZOB = 20

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -3 *	-0.76	-0.82	-0.82	-0.82	-0.82	-0.83	-0.83	-0.85	-0.89	-0.95	-1.01	-1.06	-1.08	-1.06	-1.01
-0.83 -0.82 -0.76															
-2 1.E -3 *	-0.82	-0.91	-0.92	-0.92	-0.92	-0.93	-0.96	-1.03	-1.16	-1.34	-1.53	-1.69	-1.75	-1.69	-1.53
-0.93 -0.91 -0.82															
-1 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.96	-1.04	-1.26	-1.66	-2.27	-2.93	-3.46	-3.70	-3.46	-2.93
-0.96 -0.92 -0.82															
0 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.94	-1.00	-1.22	-1.81	-2.90	-4.56	-6.47	-8.04	-8.67	-8.04	-6.47
-1.00 -0.93 -0.83															
1 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.11	-0.16	-0.30	-0.58	-0.96	-1.38	-1.72	-1.85	-1.72	-1.38
-0.11 -0.09 -0.08															
2 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.12	-0.20	-0.45	-0.96	-1.68	-2.56	-3.42	-3.80	-3.42	-2.56
-0.12 -0.10 -0.08															
3 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.13	-0.24	-0.57	-1.28	-2.41	-3.92	-6.08	-7.37	-6.08	-3.92
-0.13 -0.10 -0.08															
4 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.13	-0.24	-0.59	-1.33	-2.59	-4.35	-7.43	-9.54	-7.43	-4.35
-0.13 -0.10 -0.08															
5 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.12	-0.21	-0.46	-0.99	-1.86	-3.28	-5.64	-7.12	-5.64	-3.28
-0.12 -0.10 -0.08															
6 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.11	-0.16	-0.29	-0.56	-1.05	-1.90	-3.03	-3.58	-3.03	-1.90
-0.11 -0.10 -0.08															
7 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.10	-0.13	-0.20	-0.33	-0.57	-0.99	-1.47	-1.67	-1.47	-0.99
-0.10 -0.09 -0.08															
8 1.E -3 *	-0.82	-0.92	-0.92	-0.93	-0.96	-0.98	-1.11	-1.43	-2.03	-3.05	-4.81	-6.45	-6.99	-6.45	-4.81
-0.98 -0.93 -0.82															
9 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.94	-1.00	-1.13	-1.37	-1.75	-2.23	-2.66	-2.84	-2.66	-2.23
-0.95 -0.92 -0.82															
10 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.95	-0.99	-1.07	-1.18	-1.30	-1.40	-1.44	-1.40	-1.30
-0.93 -0.92 -0.82															
11 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.93	-0.93	-0.93	-0.94	-0.96	-0.99	-1.02	-1.05	-1.07	-1.05	-1.02
-0.93 -0.92 -0.82															
12 1.E -4 *	-8.23	-9.18	-9.26	-9.26	-9.26	-9.26	-9.27	-9.28	-9.31	-9.38	-9.45	-9.52	-9.56	-9.52	-9.45
-9.27 -9.18 -8.23															
13 1.E -4 *	-8.19	-9.11	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18	-9.19	-9.19	-9.20	-9.22	-9.22	-9.22	-9.20
-9.18 -9.11 -8.19															
14 1.E -4 *	-7.62	-8.19	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.23	-8.24	-8.23	-8.23	
-8.23 -8.19 -7.62															

POT INFORMATION FOR SLICE IZOB = 21

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -3 *	-0.76	-0.82	-0.82	-0.82	-0.82	-0.83	-0.84	-0.87	-0.93	-1.01	-1.11	-1.18	-1.20	-1.18	-1.11
-0.83 -0.82 -0.76															
-2 1.E -3 *	-0.82	-0.91	-0.92	-0.92	-0.92	-0.94	-0.99	-1.10	-1.28	-1.51	-1.76	-1.95	-2.03	-1.95	-1.76
-0.94 -0.91 -0.82															
-1 1.E -3 *	-0.82	-0.92	-0.93	-0.93	-0.94	-0.98	-1.12	-1.43	-1.95	-2.68	-3.42	-4.07	-4.30	-4.07	-3.42
-0.98 -0.93 -0.82															
0 1.E -3 *	-0.82	-0.92	-0.94	-0.93	-0.96	-1.05	-1.27	-1.78	-2.73	-4.08	-5.76	-7.41	-8.06	-7.41	
-1.05 -0.95 -0.83															
1 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.12	-0.18	-0.35	-0.64	-1.05	-1.48	-1.82	-1.96	-1.82	-1.48
-0.12 -0.10 -0.08															
2 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.13	-0.23	-0.49	-0.97	-1.65	-2.50	-3.34	-3.72	-3.34	-2.50
-0.13 -0.10 -0.08															
3 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.14	-0.2	-0.60	-1.24	-2.24	-3.59	-5.40	-6.45	-5.40	-3.59
-0.14 -0.10 -0.08															

Micro Shuttle POLAR 1.1 Results

```
 4 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.15 -0.28 -0.64 -1.34 -2.48 -4.01 -6.42 -7.98 -6.42 -4.01
-0.15 -0.11 -0.08
 5 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.10 -0.14 -0.24 -0.53 -1.07 -1.93 -3.22 -5.11 -6.23 -5.11 -3.22
-0.14 -0.10 -0.08
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.10 -0.12 -0.19 -0.34 -0.64 -1.14 -1.98 -2.97 -3.42 -2.97 -1.98
-0.12 -0.10 -0.08
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.10 -0.11 -0.15 -0.23 -0.38 -0.65 -1.08 -1.53 -1.71 -1.53 -1.08
-0.11 -0.10 -0.08
 8 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.95 -1.02 -1.20 -1.67 -2.36 -3.56 -5.46 -7.23 -7.84 -7.23 -5.46
-1.02 -0.94 -0.83
 9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.96 -1.05 -1.23 -1.54 -2.02 -2.61 -3.14 -3.37 -3.14 -2.61
-0.96 -0.93 -0.82
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.94 -0.97 -1.04 -1.14 -1.29 -1.46 -1.61 -1.67 -1.61 -1.46
-0.94 -0.92 -0.82
11 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.94 -0.95 -0.99 -1.04 -1.09 -1.14 -1.15 -1.14 -1.09
-0.93 -0.92 -0.82
12 1.E -4 *   -8.23 -9.18 -9.26 -9.26 -9.26 -9.27 -9.28 -9.31 -9.39 -9.54 -9.68 -9.78 -9.82 -9.78 -9.68
-9.27 -9.18 -8.23
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.18 -9.19 -9.19 -9.21 -9.24 -9.27 -9.27 -9.27 -9.24
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24 -8.24
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =   22

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -3 *   -0.76 -0.82 -0.82 -0.82 -0.83 -0.84 -0.86 -0.91 -0.99 -1.10 -1.23 -1.33 -1.36 -1.33 -1.23
-0.84 -0.82 -0.76
-2 1.E -3 *   -0.82 -0.91 -0.92 -0.92 -0.93 -0.96 -1.04 -1.19 -1.43 -1.74 -2.05 -2.27 -2.34 -2.27 -2.05
-0.96 -0.92 -0.82
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.95 -1.03 -1.23 -1.65 -2.29 -3.12 -3.97 -4.66 -4.95 -4.66 -3.97
-1.03 -0.95 -0.83
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.10 -0.11 -0.16 -0.25 -0.41 -0.61 -0.83 -1.01 -1.08 -1.01 -0.83
-0.11 -0.10 -0.08
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.10 -0.13 -0.21 -0.40 -0.71 -1.13 -1.56 -1.90 -2.05 -1.90 -1.56
-0.13 -0.10 -0.08
 2 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.15 -0.27 -0.54 -1.00 -1.66 -2.44 -3.24 -3.63 -3.24 -2.44
-0.15 -0.11 -0.09
 3 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.16 -0.31 -0.62 -1.22 -2.13 -3.42 -4.87 -5.74 -4.87 -3.32
-0.16 -0.11 -0.09
 4 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.17 -0.32 -0.69 -1.36 -2.40 -3.76 -5.67 -6.86 -5.67 -3.76
-0.17 -0.11 -0.09
 5 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.16 -0.28 -0.59 -1.14 -1.99 -3.18 -4.71 -5.55 -4.71 -3.18
-0.16 -0.11 -0.09
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.14 -0.22 -0.40 -0.73 -1.25 -2.07 -2.93 -3.28 -2.93 -2.07
-0.14 -0.11 -0.09
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.10 -0.12 -0.17 -0.27 -0.44 -0.74 -1.19 -1.59 -1.73 -1.59 -1.19
-0.12 -0.10 -0.08
 8 1.E -3 *   -0.82 -0.92 -0.93 -0.94 -0.97 -1.07 -1.32 -1.83 -2.73 -4.12 -6.23 -7.96 -8.43 -7.96 -6.23
-1.07 -0.96 -0.83
 9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.94 -0.99 -1.11 -1.35 -1.74 -2.32 -3.02 -3.67 -3.97 -3.67 -3.02
-0.99 -0.94 -0.83
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.95 -1.00 -1.10 -1.24 -1.44 -1.67 -1.86 -1.94 -1.86 -1.67
-0.95 -0.92 -0.82
11 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.95 -0.98 -1.03 -1.11 -1.18 -1.24 -1.27 -1.24 -1.18
-0.93 -0.92 -0.82
12 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.93 -0.94 -0.95 -0.98 -1.00 -1.02 -1.02 -1.02 -1.00
-0.93 -0.92 -0.82
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.18 -9.19 -9.20 -9.23 -9.27 -9.33 -9.37 -9.38 -9.37 -9.33
-9.18 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.24 -8.24 -8.25 -8.26 -8.26 -8.26 -8.25
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =   23

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -3 *   -0.76 -0.82 -0.82 -0.82 -0.83 -0.85 -0.89 -0.96 -1.07 -1.22 -1.39 -1.50 -1.54 -1.50 -1.39
-0.85 -0.82 -0.76
-2 1.E -3 *   -0.82 -0.91 -0.92 -0.92 -0.94 -0.99 -1.11 -1.31 -1.63 -2.01 -2.36 -2.60 -2.68 -2.60 -2.36
-0.99 -0.93 -0.82
-1 1.E -3 *   -0.82 -0.92 -0.93 -0.94 -0.98 -1.09 -1.36 -1.90 -2.66 -3.60 -4.53 -5.25 -5.56 -5.25 -4.53
-1.09 -0.97 -0.83
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.12 -0.18 -0.29 -0.47 -0.69 -0.91 -1.09 -1.16 -1.09 -0.91
-0.12 -0.10 -0.08
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.15 -0.24 -0.45 -0.78 -1.19 -1.62 -1.95 -2.09 -1.95 -1.62
-0.15 -0.11 -0.09
 2 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.17 -0.30 -0.58 -1.04 -1.67 -2.40 -3.14 -3.50 -3.14 -2.40
-0.17 -0.11 -0.09
 3 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.12 -0.18 -0.34 -0.67 -1.24 -2.10 -3.17 -4.48 -5.22 -4.48 -3.17
-0.18 -0.12 -0.09
 4 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.12 -0.19 -0.35 -0.73 -1.39 -2.36 -3.56 -5.14 -6.10 -5.14 -3.56
-0.19 -0.12 -0.09
 5 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.12 -0.18 -0.32 -0.64 -1.20 -2.01 -3.11 -4.42 -5.11 -4.42 -3.11
-0.18 -0.12 -0.09
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.16 -0.25 -0.45 -0.80 -1.34 -2.13 -2.92 -3.23 -2.92 -2.13
-0.16 -0.11 -0.09
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.13 -0.19 -0.31 -0.50 -0.82 -1.27 -1.65 -1.77 -1.65 -1.27
-0.13 -0.10 -0.09
 8 1.E -3 *   -0.82 -0.92 -0.93 -0.95 -1.00 -1.15 -1.47 -2.10 -3.13 -4.70 -7.00 -8.71 -9.07 -8.71 -7.00
-1.15 -0.99 -0.84
 9 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.96 -1.06 -1.19 -1.50 -1.97 -2.67 -3.49 -4.20 -4.52 -4.20 -3.49
-1.04 -0.96 -0.83
10 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.94 -0.97 -1.05 -1.17 -1.36 -1.63 -1.93 -2.16 -2.25 -2.16 -1.93
-0.97 -0.93 -0.83
11 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.94 -0.97 -1.01 -1.09 -1.19 -1.30 -1.38 -1.42 -1.38 -1.30
-0.94 -0.92 -0.82
12 1.E -3 *   -0.82 -0.92 -0.93 -0.93 -0.93 -0.93 -0.94 -0.95 -0.98 -1.01 -1.05 -1.08 -1.09 -1.08 -1.05
-0.93 -0.92 -0.82
13 1.E -4 *   -8.19 -9.11 -9.18 -9.18 -9.18 -9.19 -9.20 -9.22 -9.30 -9.38 -9.47 -9.56 -9.59 -9.56 -9.47
-9.19 -9.11 -8.19
14 1.E -4 *   -7.62 -8.19 -8.23 -8.23 -8.23 -8.23 -8.23 -8.24 -8.25 -8.26 -8.28 -8.30 -8.31 -8.30 -8.28
-8.23 -8.19 -7.62

                    POT  INFORMATION FOR SLICE IZOB =   24

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -3 *   -0.76 -0.82 -0.82 -0.82 -0.83 -0.86 -0.92 -1.02 -1.17 -1.37 -1.56 -1.69 -1.73 -1.69 -1.56
-0.86 -0.83 -0.76
-2 1.E -3 *   -0.82 -0.91 -0.91 -0.92 -0.94 -1.02 -1.18 -1.46 -1.84 -2.29 -2.68 -2.94 -3.03 -2.94 -2.68
-1.02 -0.94 -0.82
-1 1.E -3 *   -0.82 -0.91 -0.92 -0.94 -1.00 -1.16 -1.52 -2.16 -3.05 -4.11 -5.11 -5.82 -6.11 -5.82 -5.11
-1.16 -0.99 -0.84
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.14 -0.20 -0.33 -0.52 -0.76 -0.99 -1.16 -1.23 -1.16 -0.99
-0.14 -0.11 -0.09
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.12 -0.16 -0.27 -0.48 -0.82 -1.23 -1.64 -1.97 -2.11 -1.97 -1.64
-0.16 -0.11 -0.09
 2 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.12 -0.19 -0.33 -0.61 -1.05 -1.64 -2.32 -3.00 -3.33 -3.00 -2.32
-0.19 -0.12 -0.09
 3 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.13 -0.20 -0.37 -0.69 -1.24 -2.01 -2.96 -4.08 -4.69 -4.08 -2.96
-0.20 -0.13 -0.09
 4 1.E -2 *   -0.08 -0.09 -0.10 -0.11 -0.13 -0.21 -0.38 -0.75 -1.38 -2.25 -3.27 -4.57 -5.34 -4.57 -3.27
-0.21 -0.13 -0.10
 5 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.13 -0.20 -0.36 -0.68 -1.23 -1.98 -2.93 -4.05 -4.62 -4.05 -2.93
-0.20 -0.13 -0.09
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.12 -0.17 -0.29 -0.51 -0.87 -1.40 -2.13 -2.82 -3.10 -2.82 -2.13
-0.17 -0.12 -0.09
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.10 -0.11 -0.15 -0.22 -0.35 -0.57 -0.89 -1.33 -1.68 -1.79 -1.68 -1.33
-0.15 -0.11 -0.09
 8 1.E -3 *   -0.82 -0.91 -0.92 -0.95 -1.03 -1.23 -1.63 -2.38 -3.59 -5.32 -7.56 -9.27 -9.74 -9.27 -7.56
-1.23 -1.03 -0.85
 9 1.E -3 *   -0.82 -0.91 -0.92 -0.94 -0.98 -1.08 -1.29 -1.66 -2.22 -3.04 -3.95 -4.67 -5.00 -4.67 -3.95
-1.08 -0.97 -0.84
10 1.E -3 *   -0.82 -0.91 -0.92 -0.92 -0.94 -0.99 -1.09 -1.25 -1.50 -1.83 -2.18 -2.44 -2.52 -2.44 -2.18
-0.99 -0.94 -0.82
11 1.E -3 *   -0.82 -0.91 -0.92 -0.92 -0.93 -0.94 -0.99 -1.05 -1.15 -1.29 -1.42 -1.52 -1.56 -1.52 -1.42
-0.94 -0.92 -0.82
12 1.E -3 *   -0.82 -0.91 -0.92 -0.92 -0.92 -0.92 -0.94 -0.96 -1.00 -1.05 -1.10 -1.14 -1.16 -1.14 -1.10
-0.92 -0.91 -0.82
13 1.E -4 *   -8.15 -9.05 -9.11 -9.11 -9.11 -9.12 -9.15 -9.21 -9.34 -9.46 -9.62 -9.78 -9.82 -9.78 -9.62
-9.12 -9.05 -8.16
14 1.E -4 *   -7.60 -8.15 -8.19 -8.19 -8.19 -8.19 -8.20 -8.20 -8.22 -8.25 -8.31 -8.34 -8.35 -8.34 -8.31
```

Micro Shuttle POLAR 1.1 Results

-8.19 -8.16 -7.60

POT INFORMATION FOR SLICE IZOB = 25

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16	17	18													
-3	1.E -3 *	-0.73	-0.76	-0.76	-0.77	-0.78	-0.82	-0.89	-1.00	-1.17	-1.38	-1.60	-1.74	-1.78	-1.74	-1.60
-0.82	-0.78	-0.73														
-2	1.E -3 *	-0.76	-0.82	-0.82	-0.83	-0.86	-0.95	-1.14	-1.44	-1.85	-2.29	-2.69	-2.95	-3.04	-2.95	-2.69
-0.96	-0.86	-0.77														
-1	1.E -3 *	-0.76	-0.82	-0.83	-0.85	-0.93	-1.11	-1.50	-2.18	-3.06	-4.07	-5.01	-5.66	-5.92	-5.66	-5.01
-1.11	-0.92	-0.79														
0	1.E -2 *	-0.08	-0.08	-0.08	-0.09	-0.10	-0.13	-0.20	-0.33	-0.51	-0.73	-0.94	-1.10	-1.16	-1.10	-0.94
-0.13	-0.10	-0.08														
1	1.E -2 *	-0.08	-0.08	-0.08	-0.09	-0.11	-0.16	-0.26	-0.47	-0.77	-1.14	-1.51	-1.79	-1.92	-1.79	-1.51
-0.16	-0.11	-0.08														
2	1.E -2 *	-0.08	-0.08	-0.09	-0.09	-0.12	-0.18	-0.32	-0.56	-0.94	-1.45	-2.03	-2.60	-2.89	-2.60	-2.03
-0.18	-0.12	-0.09														
3	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.13	-0.20	-0.35	-0.62	-1.09	-1.72	-2.48	-3.38	-3.87	-3.38	-2.48
-0.20	-0.13	-0.09														
4	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.13	-0.21	-0.37	-0.70	-1.24	-1.94	-2.76	-3.75	-4.31	-3.75	-2.76
-0.21	-0.13	-0.09														
5	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.13	-0.20	-0.35	-0.65	-1.14	-1.78	-2.56	-3.40	-3.81	-3.40	-2.56
-0.20	-0.13	-0.09														
6	1.E -2 *	-0.08	-0.08	-0.09	-0.09	-0.12	-0.17	-0.28	-0.49	-0.83	-1.31	-1.93	-2.46	-2.66	-2.46	-1.93
-0.17	-0.12	-0.09														
7	1.E -2 *	-0.08	-0.08	-0.08	-0.09	-0.11	-0.14	-0.22	-0.35	-0.56	-0.86	-1.24	-1.53	-1.60	-1.53	-1.24
-0.14	-0.11	-0.08														
8	1.E -3 *	-0.76	-0.82	-0.83	-0.87	-0.96	-1.19	-1.60	-2.37	-3.58	-5.22	-7.24	-8.71	-9.08	-8.71	-7.24
-1.19	-0.96	-0.81														
9	1.E -3 *	-0.76	-0.82	-0.83	-0.85	-0.90	-1.01	-1.23	-1.65	-2.25	-3.06	-3.89	-4.58	-4.91	-4.58	-3.89
-1.01	-0.90	-0.79														
10	1.E -3 *	-0.76	-0.82	-0.82	-0.83	-0.86	-0.91	-1.02	-1.21	-1.50	-1.84	-2.17	-2.43	-2.52	-2.43	-2.17
-0.91	-0.85	-0.77														
11	1.E -3 *	-0.76	-0.82	-0.82	-0.83	-0.84	-0.86	-0.91	-0.98	-1.10	-1.26	-1.41	-1.51	-1.53	-1.51	-1.41
-0.86	-0.83	-0.76														
12	1.E -3 *	-0.76	-0.82	-0.82	-0.82	-0.83	-0.84	-0.86	-0.89	-0.94	-0.99	-1.04	-1.08	-1.10	-1.09	-1.03
-0.83	-0.82	-0.76														
13	1.E -4 *	-7.60	-8.15	-8.19	-8.19	-8.19	-8.21	-8.26	-8.30	-8.50	-8.65	-8.89	-9.09	-9.12	-9.09	-8.89
-8.21	-8.16	-7.60														
14	1.E -4 *	-7.29	-7.60	-7.62	-7.62	-7.62	-7.62	-7.62	-7.64	-7.67	-7.74	-7.80	-7.86	-7.87	-7.86	-7.80
-7.62	-7.60	-7.29														

END OF POT DATA.

THE ENTIRE QUSD DATA IS AS FOLLOWS

QUSD INFORMATION FOR SLICE IZOB = -3

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4	1.E -6 *	-1.44	-1.30	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29
-1.29	-1.29	-1.30	-1.44	0.00												
-3	1.E -6 *	-1.30	-1.00	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97
-0.97	-0.97	-1.00	-1.30	0.00												
-2	1.E -6 *	-1.29	-0.97	-0.94	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93
-0.93	-0.94	-0.97	-1.29	0.00												
-1	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93
-0.93	-0.93	-0.97	-1.29	0.00												
0	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
1	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
2	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
3	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
4	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
5	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
6	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
7	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
8	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
9	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
10	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
11	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93
-0.93	-0.93	-0.97	-1.29	0.00												
12	1.E -6 *	-1.29	-0.97	-0.94	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93
-0.93	-0.94	-0.97	-1.29	0.00												
13	1.E -6 *	-1.30	-1.00	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97
-0.97	-0.97	-1.00	-1.30	0.00												
14	1.E -6 *	-1.44	-1.30	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29
-1.29	-1.29	-1.30	-1.44	0.00												
15	1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00												

QUSD INFORMATION FOR SLICE IZOB = -2

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4	1.E -6 *	-1.30	-1.00	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97
-0.97	-0.97	-1.00	-1.30	0.00												
-3	1.E -6 *	-1.00	-0.36	-0.29	-0.28	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
-0.28	-0.29	-0.36	-1.00	0.00												
-2	1.E -7 *	-9.73	-2.86	-1.91	-1.78	-1.76	-1.76	-1.76	-1.76	-1.76	-1.74	-1.66	-1.51	-1.39	-1.39	-1.51
-1.78	-1.91	-2.86	-9.73	0.00												
-1	1.E -7 *	-9.69	-2.76	-1.78	-1.64	-1.62	-1.62	-1.62	-1.62	-1.59	-1.40	-0.93	-0.26	0.22	0.22	-0.26
-1.64	-1.78	-2.76	-9.69	0.00												
0	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.46	-0.83	0.53	2.32	3.68	3.68	2.32
-1.62	-1.76	-2.75	-9.69	0.00												
1	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.24	0.09	2.77	6.27	8.74	8.74	6.27
-1.62	-1.76	-2.75	-9.69	0.00												
2	1.E -6 *	-0.97	-0.27	-0.18	-0.16	-0.16	-0.16	-0.16	-0.16	-0.10	0.10	0.50	1.00	1.35	1.35	1.00
-0.16	-0.18	-0.27	-0.97	0.00												
3	1.E -6 *	-0.97	-0.27	-0.18	-0.16	-0.16	-0.16	-0.16	-0.16	-0.10	0.10	0.50	1.00	1.35	1.35	1.00
-0.16	-0.18	-0.27	-0.97	0.00												
4	1.E -6 *	-0.97	-0.27	-0.18	-0.16	-0.16	-0.16	-0.16	-0.16	-0.10	0.10	0.50	1.00	1.35	1.35	1.00
-0.16	-0.18	-0.27	-0.97	0.00												
5	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.24	0.09	2.77	6.27	8.74	8.74	6.27
-1.62	-1.76	-2.75	-9.69	0.00												
6	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.46	-0.83	0.53	2.32	3.68	3.68	2.32
-1.62	-1.76	-2.75	-9.69	0.00												
7	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.57	-1.38	-0.91	-0.24	0.24	0.24	-0.24
-1.62	-1.76	-2.75	-9.69	0.00												
8	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.57	-1.49	-1.35	-1.22	-1.22	-1.35
-1.62	-1.76	-2.75	-9.69	0.00												
9	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
-1.62	-1.76	-2.75	-9.69	0.00												
10	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
-1.62	-1.76	-2.75	-9.69	0.00												
11	1.E -7 *	-9.69	-2.76	-1.78	-1.64	-1.62	-1.62	-1.62	-1.62	-1.62	-1.62	-1.62	-1.62	-1.62	-1.62	-1.62
-1.64	-1.78	-2.76	-9.69	0.00												
12	1.E -7 *	-9.73	-2.86	-1.91	-1.78	-1.76	-1.76	-1.76	-1.76	-1.76	-1.76	-1.76	-1.76	-1.76	-1.76	-1.76
-1.78	-1.91	-2.86	-9.73	0.00												
13	1.E -6 *	-1.00	-0.36	-0.29	-0.28	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
-0.28	-0.29	-0.36	-1.00	0.00												
14	1.E -6 *	-1.30	-1.00	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97
-0.97	-0.97	-1.00	-1.30	0.00												
15	1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00												

QUSD INFORMATION FOR SLICE IZOB = -1

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

Micro Shuttle POLAR 1.1 Results

```
   15    16    17    18    19
-4 1.E -6 *    -1.29 -0.97 -0.94 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93
-0.94 -0.94 -0.97 -1.29  0.00
-3 1.E -7 *    -9.73 -2.86 -1.91 -1.78 -1.76 -1.76 -1.76  1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76
-1.78 -1.91 -2.86 -9.73  0.00
-2 1.E -7 *    -9.36 -1.91 -0.72 -0.54 -0.52 -0.52 -0.52 -0.51 -0.46 -0.22  0.36  1.10  1.62  1.62  1.10
-0.54 -0.72 -1.91 -9.36  0.00
-1 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03 -0.03 -0.03  0.01  0.19  0.55  1.06  1.47  1.47  1.06
-0.03 -0.05 -0.18 -0.93  0.00
 0 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03 -0.03 -0.02  0.15  0.73  1.96  3.57  4.68  4.68  3.57
-0.03 -0.05 -0.18 -0.93  0.00
 1 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03 -0.03  0.01  0.39  1.68  4.34  7.54  9.89  9.89  7.53
-0.03 -0.05 -0.18 -0.93  0.00
 2 1.E -5 *    -0.09 -0.02 -0.01  0.00  0.00  0.00  0.00  0.00  0.06  0.27  0.67  1.15  1.50  1.50  1.15
 0.00 -0.01 -0.02 -0.09  0.00
 3 1.E -5 *    -0.09 -0.02 -0.01  0.00  0.00  0.00  0.00  0.00  0.08  0.32  0.77  1.35  1.72  1.72  1.35
 0.00 -0.01 -0.02 -0.09  0.00
 4 1.E -5 *    -0.09 -0.02 -0.01  0.00  0.00  0.00  0.00  0.00  0.07  0.28  0.69  1.18  1.54  1.54  1.18
 0.00 -0.01 -0.02 -0.09  0.00
 5 1.E -5 *    -0.09 -0.02 -0.01  0.00  0.00  0.00  0.00  0.00  0.04  0.18  0.46  0.80  1.04  1.04  0.80
 0.00 -0.01 -0.02 -0.09  0.00
 6 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03 -0.03 -0.02  0.18  0.83  2.21  4.02  5.25  5.25  4.02
-0.03 -0.05 -0.18 -0.93  0.00
 7 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03 -0.03 -0.03  0.03  0.25  0.72  1.35  1.85  1.85  1.35
-0.03 -0.05 -0.18 -0.93  0.00
 8 1.E -7 *    -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.29 -0.21  0.23  1.27  2.63  3.57  3.57  2.63
-0.32 -0.52 -1.76 -9.31  0.00
 9 1.E -7 *    -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.29 -0.27 -0.19 -0.04  0.08  0.08 -0.04
-0.32 -0.52 -1.76 -9.31  0.00
10 1.E -7 *    -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30
-0.32 -0.52 -1.76 -9.31  0.00
11 1.E -7 *    -9.31 -1.78 -0.54 -0.35 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32
-0.35 -0.54 -1.78 -9.31  0.00
12 1.E -7 *    -9.36 -1.91 -0.72 -0.54 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52
-0.54 -0.72 -1.91 -9.36  0.00
13 1.E -7 *    -9.73 -2.86 -1.91 -1.78 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76 -1.76
-1.78 -1.91 -2.86 -9.73  0.00
14 1.E -6 *    -1.29 -0.97 -0.94 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93
-0.93 -0.94 -0.97 -1.29  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 0

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *    -9.69 -2.76 -1.78 -1.64 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62
-1.64 -1.78 -2.76 -9.69  0.00
-2 1.E -7 *    -9.31 -1.78 -0.54 -0.35 -0.32 -0.32 -0.32 -0.29  0.01  1.02  2.86  5.05  6.63  6.63  5.05
-0.35 -0.54 -1.78 -9.31  0.00
-1 1.E -6 *    -0.93 -0.16 -0.03 -0.01 -0.01 -0.01 -0.01  0.01  0.23  0.92  2.32  4.04  5.15  5.15  4.04
-0.01 -0.03 -0.16 -0.93  0.00
 0 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.33  0.92  1.85  2.72  2.72  1.85
 0.00  0.00 -0.02 -0.09  0.00
 1 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.02  0.18  0.77  2.38  4.87  6.53  6.53  4.87
 0.00  0.00 -0.02 -0.09  0.00
 2 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.03  0.12  0.42  0.79  1.07  1.07  0.79
 0.00  0.00  0.00 -0.01  0.00
 3 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.04  0.15  0.52  0.90  1.29  1.29  0.90
 0.00  0.00  0.00 -0.01  0.00
 4 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.03  0.13  0.44  0.81  1.10  1.10  0.81
 0.00  0.00  0.00 -0.01  0.00
 5 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.20  0.86  2.58  5.25  7.00  7.00  5.25
 0.00  0.00 -0.02 -0.09  0.00
 6 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.41  1.13  2.20  3.19  3.19  2.20
 0.00  0.00 -0.02 -0.09  0.00
 7 1.E -6 *    -0.93 -0.16 -0.03 -0.01 -0.01 -0.01 -0.01  0.02  0.32  1.36  3.60  6.45  8.30  8.30  6.45
-0.01 -0.03 -0.16 -0.93  0.00
 8 1.E -6 *    -0.93 -0.16 -0.03 -0.01 -0.01 -0.01 -0.01  0.00  0.05  0.28  0.74  1.37  1.87  1.87  1.37
-0.01 -0.03 -0.16 -0.93  0.00
 9 1.E -7 *    -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.05  0.14  0.61  1.28  1.76  1.76  1.28
-0.11 -0.32 -1.62 -9.25  0.00
10 1.E -7 *    -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08
-0.11 -0.32 -1.62 -9.25  0.00
11 1.E -7 *    -9.26 -1.64 -0.35 -0.14 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11
-0.14 -0.35 -1.64 -9.26  0.00
12 1.E -7 *    -9.31 -1.78 -0.54 -0.35 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32 -0.32
-0.35 -0.54 -1.78 -9.31  0.00
13 1.E -7 *    -9.69 -2.76 -1.78 -1.64 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62 -1.62
-1.64 -1.78 -2.76 -9.69  0.00
14 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 1

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03 -0.03 -0.01  0.09  0.35  0.79  1.28  1.59  1.59  1.28
-0.03 -0.05 -0.18 -0.93  0.00
-1 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.27  0.61  0.97  1.24  1.24  0.97
 0.00  0.00 -0.02 -0.09  0.00
 0 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.03  0.25  1.03  3.07  5.79  7.32  7.32  5.79
 0.00  0.00 -0.02 -0.09  0.00
 1 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.26  0.92  2.41  4.50  4.50  2.41
 0.00  0.00  0.00 -0.01  0.00
 2 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.09  0.46  1.69  5.92  8.05  8.05  5.92
 0.00  0.00  0.00 -0.01  0.00
 3 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.57  2.05  8.14  8.43  8.43  8.14
 0.00  0.00  0.00 -0.01  0.00
 4 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.09  0.49  1.78  6.07  8.24  8.24  6.07
 0.00  0.00  0.00 -0.01  0.00
 5 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.30  1.10  2.64  4.84  4.84  2.64
 0.00  0.00  0.00 -0.01  0.00
 6 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.03  0.14  0.44  0.90  1.14  1.14  0.90
 0.00  0.00  0.00 -0.01  0.00
 7 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.01  0.12  0.45  1.20  2.28  3.28  3.28  2.28
 0.00  0.00 -0.02 -0.09  0.00
 8 1.E -6 *    -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.00  0.03  0.26  0.99  2.46  4.36  5.65  5.65  4.36
-0.01 -0.03 -0.16 -0.92  0.00
 9 1.E -7 *    -9.24 -1.60 -0.30 -0.08 -0.05 -0.05 -0.05 -0.02  0.20  1.00  2.57  4.53  5.96  5.96  4.53
-0.08 -0.30 -1.60 -9.24  0.00
10 1.E -7 *    -9.24 -1.60 -0.30 -0.08 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05
-0.08 -0.30 -1.60 -9.24  0.00
11 1.E -7 *    -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08
-0.11 -0.32 -1.62 -9.25  0.00
12 1.E -7 *    -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
14 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 2

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03 -0.03  0.03  0.27  0.79  1.60  2.43  2.99  2.99  2.43
-0.03 -0.05 -0.18 -0.93  0.00
-1 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.03  0.18  0.58  1.19  1.86  2.27  2.27  1.86
 0.00  0.00 -0.02 -0.09  0.00
```

```
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.25  0.69  1.10  1.43  1.43  1.10
 0.00  0.00  0.00 -0.01  0.00
 1 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.13  0.64  2.69  7.96  9.01  9.01  7.96
 0.00  0.00  0.00 -0.01  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.23  1.27  1.27  0.23
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.09  0.28  2.35  2.35  0.28
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.23  1.25  1.25  0.23
 0.00  0.00  0.00  0.00  0.00
 5 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.32  1.26  1.35  1.35  1.26
 0.00  0.00  0.00  0.00  0.00
 6 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.09  0.35  1.19  2.74  4.95  4.95  2.74
 0.00  0.00  0.00 -0.01  0.00
 7 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.01  0.06  0.34  1.16  3.06  5.91  7.77  7.77  5.91
 0.01  0.00 -0.02 -0.09  0.00
 8 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.27  0.62  1.02  1.30  1.30  1.02
 0.00  0.00 -0.02 -0.09  0.00
 9 1.E -6 *    -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.00  0.02  0.10  0.32  0.68  1.10  1.38  1.38  1.10
 0.00 -0.03 -0.16 -0.92  0.00
10 1.E -7 *    -9.24 -1.60 -0.30 -0.08 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05
-0.08 -0.30 -1.60 -9.24  0.00
11 1.E -7 *    -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08
-0.11 -0.32 -1.62 -9.25  0.00
12 1.E -7 *    -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
14 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 3

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03  0.01  0.25  0.91  2.17  3.81  5.44  6.41  6.41  5.44
 0.01 -0.05 -0.18 -0.93  0.00
-1 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.02  0.15  0.60  1.47  2.73  3.92  4.67  4.67  3.92
 0.02  0.00 -0.02 -0.09  0.00
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.24  0.84  1.63  2.50  2.97  2.97  2.50
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.27  1.12  1.63  1.89  1.89  1.63
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.21  2.34  4.42  4.42  2.34
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.26  4.45  0.00  0.00  4.45
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.24  2.51  5.95  5.95  2.51
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.14  0.38  2.46  2.46  0.38
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.22  0.62  1.39  1.48  1.48  1.39
 0.00  0.00  0.00  0.00  0.00
 7 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.19  0.56  1.24  1.87  2.38  2.38  1.87
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.02  0.11  0.42  1.05  1.97  2.94  3.54  3.54  2.94
 0.02  0.00 -0.02 -0.09  0.00
 9 1.E -6 *    -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.02  0.10  0.32  0.68  1.10  1.38  1.38  1.38  1.10
 0.00 -0.03 -0.16 -0.92  0.00
10 1.E -7 *    -9.24 -1.60 -0.30 -0.08 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05
-0.08 -0.30 -1.60 -9.24  0.00
11 1.E -7 *    -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08
-0.11 -0.32 -1.62 -9.25  0.00
12 1.E -7 *    -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
14 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 4

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03  0.01  0.25  0.91  2.17  3.81  5.44  6.41  6.41  5.44
 0.01 -0.05 -0.18 -0.93  0.00
-1 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.02  0.15  0.60  1.47  2.73  3.92  4.67  4.67  3.92
 0.02  0.00 -0.02 -0.09  0.00
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.24  0.84  1.63  2.50  2.97  2.97  2.50
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.27  1.12  1.63  1.89  1.89  1.63
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.21  2.34  4.42  4.42  2.34
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.26  4.45  0.00  0.00  4.45
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.24  2.51  5.95  5.95  2.51
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.14  0.38  2.46  2.46  0.38
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.22  0.62  1.39  1.48  1.48  1.39
 0.00  0.00  0.00  0.00  0.00
 7 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.19  0.56  1.24  1.87  2.38  2.38  1.87
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.02  0.11  0.42  1.05  1.97  2.94  3.54  3.54  2.94
 0.02  0.00 -0.02 -0.09  0.00
 9 1.E -6 *    -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.02  0.10  0.32  0.68  1.10  1.38  1.38  1.38  1.10
 0.00 -0.03 -0.16 -0.92  0.00
10 1.E -7 *    -9.24 -1.60 -0.30 -0.08 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05
-0.08 -0.30 -1.60 -9.24  0.00
11 1.E -7 *    -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08
-0.11 -0.32 -1.62 -9.25  0.00
12 1.E -7 *    -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
14 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 5

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *    -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -6 *    -0.93 -0.18 -0.05 -0.03 -0.03 -0.03  0.05  0.41  1.33  2.94  4.95  6.82  7.95  7.95  6.82
 0.05 -0.05 -0.18 -0.93  0.00
-1 1.E -5 *    -0.09 -0.02  0.00  0.00  0.00  0.00  0.03  0.25  0.86  1.97  3.44  4.83  5.67  5.67  4.83
 0.03  0.00 -0.02 -0.09  0.00
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.41  1.13  2.10  3.05  3.59  3.59  3.05
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.10  0.56  1.30  1.87  2.37  2.37  1.87
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.10  1.27  3.74  4.46  4.46  3.74
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.15  1.50  5.32  0.00  0.00  5.32
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.14  1.46  4.42  6.16  6.16  4.42
```

Micro Shuttle POLAR 1.1 Results

0.00 0.00 0.00 0.00 0.00
5 1.E -2 * 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.09 1.20 1.60 2.67 2.67 1.60
0.00 0.00 0.00 0.00 0.00
6 1.E -3 * 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.09 0.52 0.97 1.78 1.98 1.98 1.78
0.00 0.00 0.00 0.00 0.00
7 1.E -4 * -0.01 0.00 0.00 0.00 0.00 0.00 0.01 0.07 0.36 0.90 1.78 2.53 3.05 3.05 2.53
0.01 0.00 0.00 -0.01 0.00
8 1.E -5 * -0.09 -0.02 0.00 0.00 0.00 0.00 0.03 0.20 0.67 1.55 2.71 3.84 4.52 4.52 3.84
0.03 0.00 -0.02 -0.09 0.00
9 1.E -6 * -0.92 -0.16 -0.03 -0.01 0.00 0.00 0.07 0.33 0.98 1.97 3.20 4.22 4.83 4.83 4.22
0.07 -0.03 -0.16 -0.92 0.00
10 1.E -7 * -9.24 -1.60 -0.30 -0.08 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05
-0.08 -0.30 -1.60 -9.24 0.00
11 1.E -7 * -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08
-0.11 -0.32 -1.62 -9.25 0.00
12 1.E -7 * -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30
-0.32 -0.52 -1.76 -9.31 0.00
13 1.E -7 * -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69 0.00
14 1.E -6 * -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29 0.00
15 1.E -1 * 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00

QUSD INFORMATION FOR SLICE IZOB = 6

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
16	-0.93	-0.93	-0.97	-1.29	0.00										
17	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
18	-1.62	-1.76	-2.75	-9.69	0.00										
19	-0.93	-0.18	-0.05	-0.03	-0.03	-0.03	0.11	0.61	1.80	3.69	5.96	7.97	9.14	9.14	7.97
	0.10	-0.05	-0.18	-0.93	0.00										
18	-0.09	-0.02	0.00	0.00	0.00	0.00	0.06	0.37	1.13	2.46	4.07	5.55	6.42	6.42	5.55
	0.06	0.00	-0.02	-0.09	0.00										
17	-0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.59	1.40	2.49	3.47	4.02	4.02	3.47
	0.02	0.00	0.00	-0.01	0.00										
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.86	1.48	1.98	2.61	2.61	1.98
	0.00	0.00	0.00	0.00	0.00										
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	2.30	4.43	4.48	4.48	4.43
	0.00	0.00	0.00	0.00	0.00										
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.22	2.74	6.24	6.03	6.03	6.24
	0.00	0.00	0.00	0.00	0.00										
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	2.74	6.22	5.45	5.45	6.22
	0.00	0.00	0.00	0.00	0.00										
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	2.28	2.68	1.71	1.71	2.68
	0.00	0.00	0.00	0.00	0.00										
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17	0.83	1.26	1.87	2.18	2.18	1.87
	0.00	0.00	0.00	0.00	0.00										
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.53	1.20	2.18	2.92	3.37	3.37	2.92
	0.01	0.00	0.00	-0.01	0.00										
9	-0.09	-0.02	0.00	0.00	0.00	0.00	0.05	0.29	0.91	1.97	3.25	4.39	5.05	5.05	4.39
	0.05	0.00	-0.02	-0.09	0.00										
8	-0.92	-0.16	-0.03	-0.01	0.00	0.00	0.11	0.48	1.34	2.54	3.87	4.86	5.39	5.39	4.86
	0.11	-0.03	-0.16	-0.92	0.00										
7	-9.24	-1.60	-0.30	-0.08	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
	-0.08	-0.30	-1.60	-9.24	0.00										
6	-9.25	-1.62	-0.32	-0.11	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
	-0.11	-0.32	-1.62	-9.25	0.00										
5	-9.31	-1.76	-0.52	-0.32	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
	-0.32	-0.52	-1.76	-9.31	0.00										
4	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
	-1.62	-1.76	-2.75	-9.69	0.00										
3	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
	-0.93	-0.93	-0.97	-1.29	0.00										
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00										

QUSD INFORMATION FOR SLICE IZOB = 7

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
16	-0.93	-0.93	-0.97	-1.29	0.00										
17	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.59	-1.59	-1.59	-1.59
18	-1.62	-1.76	-2.75	-9.69	0.00										
19	-0.09	-0.02	-0.01	0.00	0.00	0.00	0.02	0.09	0.23	0.45	0.69	0.89	1.00	1.00	0.89
	0.02	0.00	-0.02	-0.09	0.00										
18	-0.09	-0.02	0.00	0.00	0.00	0.01	0.11	0.52	1.47	2.94	4.65	6.12	6.95	6.95	6.12
	0.11	0.01	-0.02	-0.09	0.00										
17	-0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.17	0.76	1.75	2.86	3.76	4.28	4.28	3.76
	0.03	0.00	0.00	-0.01	0.00										
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.18	1.00	1.78	2.26	2.70	2.70	2.26
	0.01	0.00	0.00	0.00	0.00										
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.17	2.35	4.45	4.49	4.49	4.45
	0.00	0.00	0.00	0.00	0.00										
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.27	2.88	6.36	6.17	6.17	6.36
	0.00	0.00	0.00	0.00	0.00										
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.27	2.88	6.24	3.51	3.51	6.24
	0.00	0.00	0.00	0.00	0.00										
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.17	2.53	2.62	0.69	0.69	2.62
	0.00	0.00	0.00	0.00	0.00										
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.15	0.95	1.52	1.92	2.08	2.08	1.92
	0.00	0.00	0.00	0.00	0.00										
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.63	1.42	2.36	3.02	3.36	3.36	3.02
	0.02	0.00	0.00	-0.01	0.00										
9	-0.09	-0.02	0.00	0.00	0.00	0.00	0.06	0.36	1.08	2.24	3.56	4.64	5.22	5.22	4.64
	0.06	0.00	-0.02	-0.09	0.00										
8	-0.92	-0.16	-0.03	-0.01	0.00	0.00	0.13	0.59	1.59	2.95	4.32	5.27	5.71	5.71	5.27
	0.13	-0.03	-0.16	-0.92	0.00										
7	-9.24	-1.60	-0.30	-0.08	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.02	0.06	0.20	0.33	0.33	0.20
	-0.08	-0.30	-1.60	-9.24	0.00										
6	-9.25	-1.62	-0.32	-0.11	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
	-0.11	-0.32	-1.62	-9.25	0.00										
5	-9.31	-1.76	-0.52	-0.32	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
	-0.32	-0.52	-1.76	-9.31	0.00										
4	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
	-1.62	-1.76	-2.75	-9.69	0.00										
3	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
	-0.93	-0.93	-0.97	-1.29	0.00										
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00										

QUSD INFORMATION FOR SLICE IZOB = 8

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
16	-0.93	-0.93	-0.97	-1.29	0.00										
17	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.59	-1.59	-1.58	-1.57	-1.57	-1.58
18	-1.62	-1.76	-2.75	-9.69	0.00										
19	-0.09	-0.02	-0.01	0.00	0.00	0.00	0.04	0.13	0.30	0.53	0.77	0.96	1.06	1.06	0.96
	0.04	0.00	-0.02	-0.09	0.00										
18	-0.09	-0.02	0.00	0.00	0.00	0.03	0.20	0.77	1.89	3.51	5.21	6.57	7.33	7.33	6.57
	0.20	0.03	-0.01	-0.09	0.00										
17	-0.01	0.00	0.00	0.00	0.00	0.01	0.06	0.28	1.01	2.07	3.21	4.06	4.45	4.45	4.06
	0.06	0.01	0.00	-0.01	0.00										
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.30	1.30	2.08	2.38	2.73	2.73	2.38
	0.01	0.00	0.00	0.00	0.00										
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.20	2.36	4.46	4.49	4.49	4.46
	0.00	0.00	0.00	0.00	0.00										
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.30	2.89	6.37	1.13	1.13	6.37
	0.00	0.00	0.00	0.00	0.00										
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.30	2.91	6.23	3.43	3.43	6.23
	0.00	0.00	0.00	0.00	0.00										
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.17	2.33	2.60	0.68	0.68	2.60
	0.00	0.00	0.00	0.00	0.00										
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.17	0.98	1.54	1.84	1.83	1.83	1.84
	0.00	0.00	0.00	0.00	0.00										
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.68	1.52	2.47	3.04	3.31	3.31	3.04
	0.02	0.00	0.00	-0.01	0.00										
9	-0.09	-0.02	0.00	0.00	0.00	0.00	0.06	0.39	1.18	2.42	3.80	4.93	5.52	5.52	4.93
	0.06	0.00	-0.02	-0.09	0.00										

Micro Shuttle POLAR 1.1 Results

```
 9 1.E -6 *   -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.14  0.65  1.76  3.34  5.03  6.35  7.09  7.09  6.35
 0.14 -0.03 -0.16 -0.92  0.00
10 1.E -7 *   -9.24 -1.60 -0.30 -0.08 -0.05 -0.05 -0.05 -0.05  0.01  0.35  1.23  2.41  3.26  3.26  2.41
-0.08 -0.30 -1.60 -9.24  0.00
11 1.E -7 *   -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.05  0.03  0.17  0.30  0.30  0.17
-0.11 -0.32 -1.62 -9.25  0.00
12 1.E -7 *   -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.29 -0.29 -0.30
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
14 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    QUSD INFORMATION FOR SLICE IZOB =    9

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.59 -1.57 -1.56 -1.55 -1.55 -1.56
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -5 *   -0.09 -0.02 -0.01  0.00  0.00  0.01  0.06  0.18  0.38  0.62  0.85  1.02  1.11  1.11  1.02
 0.06  0.01 -0.02 -0.09  0.00
-1 1.E -5 *   -0.09 -0.02  0.00  0.00  0.01  0.07  0.37  1.13  2.44  4.13  5.77  6.99  7.61  7.61  6.99
 0.37  0.07 -0.01 -0.09  0.00
 0 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.02  0.11  0.51  1.37  2.50  3.54  4.24  4.58  4.58  4.24
 0.11  0.02  0.00 -0.01  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.11  0.59  1.48  2.19  2.58  2.74  2.74  2.58
 0.02  0.00  0.00  0.00  0.00
 2 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.09  1.24  3.40  4.48  4.49  4.49  4.48
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.10  1.34  3.93  6.40  4.05  4.05  6.40
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.32  2.92  6.24  3.28  3.28  6.24
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.18  2.34  2.60  0.67  0.67  2.60
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.17  0.99  1.56  1.87  1.88  1.88  1.87
 0.01  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.14  0.69  1.57  2.63  3.37  3.72  3.72  3.37
 0.02  0.00  0.00 -0.01  0.00
 8 1.E -5 *   -0.09 -0.02  0.00  0.00  0.00  0.00  0.06  0.39  1.27  2.62  4.40  6.20  7.52  7.52  6.20
 0.06  0.00 -0.02 -0.09  0.00
 9 1.E -5 *   -0.09 -0.02  0.00  0.00  0.00  0.00  0.01  0.08  0.19  0.41  0.71  1.07  1.20  1.20  1.07
 0.01  0.00 -0.02 -0.09  0.00
10 1.E -6 *   -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.00  0.00  0.03  0.20  0.58  1.13  1.58  1.58  1.13
-0.01 -0.03 -0.16 -0.92  0.00
11 1.E -7 *   -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08 -0.08 -0.05  0.14  0.61  1.28  1.76  1.76  1.28
-0.11 -0.32 -1.62 -9.25  0.00
12 1.E -7 *   -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.30 -0.30 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
14 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    QUSD INFORMATION FOR SLICE IZOB =   10

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.59 -1.58 -1.55 -1.51 -1.49 -1.49 -1.51
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -5 *   -0.09 -0.02 -0.01  0.00  0.00  0.03  0.10  0.25  0.47  0.71  0.92  1.07  1.14  1.14  1.07
 0.10  0.02 -0.01 -0.09  0.00
-1 1.E -5 *   -0.09 -0.02  0.00  0.00  0.02  0.15  0.61  1.57  3.07  4.77  6.27  7.33  7.81  7.81  7.33
 0.61  0.14  0.00 -0.09  0.00
 0 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.04  0.22  0.84  1.78  2.93  3.89  4.39  4.67  4.67  4.39
 0.22  0.04  0.00 -0.01  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.24  1.14  1.84  2.23  2.71  2.75  2.75  2.71
 0.05  0.01  0.00  0.00  0.00
 2 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.14  2.30  4.45  4.49  4.49  4.49  4.49
 0.01  0.00  0.00  0.00  0.00
 3 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.15  2.40  4.99  6.43  6.34  6.34  6.43
 0.01  0.00  0.00  0.00  0.00
 4 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.14  0.35  2.94  6.24  3.15  3.15  6.24
 0.01  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.18  2.34  2.62  0.71  0.71  2.62
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.17  0.99  1.64  2.41  2.61  2.61  2.41
 0.01  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.03  0.14  0.68  1.59  3.00  4.77  7.02  7.02  4.77
 0.03  0.00  0.00 -0.01  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.12  0.29  0.61  1.05  1.29  1.29  1.05
 0.01  0.00  0.00 -0.01  0.00
 9 1.E -5 *   -0.09 -0.02  0.00  0.00  0.00  0.00  0.01  0.06  0.21  0.55  1.22  2.21  3.14  3.14  2.21
 0.01  0.00 -0.02 -0.09  0.00
10 1.E -6 *   -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.00  0.00  0.11  0.58  1.70  3.25  4.34  4.34  3.25
-0.01 -0.03 -0.16 -0.92  0.00
11 1.E -7 *   -9.25 -1.62 -0.32 -0.11 -0.08 -0.08 -0.08 -0.08  0.06  0.69  2.06  3.84  5.20  5.20  3.84
-0.11 -0.32 -1.62 -9.25  0.00
12 1.E -7 *   -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.30 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
-1.62 -1.76 -2.75 -9.69  0.00
14 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    QUSD INFORMATION FOR SLICE IZOB =   11

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
-3 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.59 -1.58 -1.55 -1.50 -1.44 -1.40 -1.40 -1.44
-1.62 -1.76 -2.75 -9.69  0.00
-2 1.E -5 *   -0.09 -0.02 -0.01  0.00  0.00  0.04  0.13  0.30  0.53  0.77  0.96  1.08  1.14  1.14  1.08
 0.13  0.04 -0.01 -0.09  0.00
-1 1.E -5 *   -0.09 -0.02  0.00  0.00  0.03  0.23  0.83  1.97  3.55  5.22  6.58  7.43  7.82  7.82  7.43
 0.83  0.23  0.02 -0.09  0.00
 0 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.06  0.37  1.13  2.20  3.27  4.07  4.52  4.68  4.68  4.52
 0.37  0.06  0.01 -0.01  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.54  1.41  2.13  2.54  2.73  2.76  2.76  2.73
 0.08  0.01  0.00  0.00  0.00
 2 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  1.22  3.38  4.48  4.49  4.49  4.49  4.49
 0.01  0.00  0.00  0.00  0.00
 3 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  1.22  3.47  5.00  6.41  7.38  7.38  6.41
 0.01  0.00  0.00  0.00  0.00
 4 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.16  0.35  2.92  6.84  5.80  5.80  6.84
 0.01  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.16  2.32  3.53  3.61  3.61  3.53
 0.00  0.00  0.00  0.00  0.00
 6 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.09  0.16  0.29  1.32  1.32  0.29
 0.00  0.00  0.00  0.00  0.00
 7 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.15  0.34  1.02  1.20  1.20  1.02
 0.00  0.00  0.00  0.00  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.03  0.12  0.32  0.92  2.32  4.47  4.47  2.32
 0.00  0.00  0.00 -0.01  0.00
 9 1.E -5 *   -0.09 -0.02  0.00  0.00  0.00  0.00  0.01  0.06  0.23  0.75  2.20  4.58  6.16  6.16  4.58
 0.01  0.00 -0.02 -0.09  0.00
10 1.E -6 *   -0.92 -0.16 -0.03 -0.01  0.00  0.00  0.00  0.00  0.23  1.20  3.4   6.30  8.50  8.50  6.30
-0.01 -0.03 -0.16 -0.92  0.00
11 1.E -6 *   -0.93 -0.16 -0.03 -0.01 -0.01 -0.01 -0.01 -0.01  0.03  0.16  0.43  0.78  1.03  1.03  0.78
-0.01 -0.03 -0.16 -0.93  0.00
12 1.E -7 *   -9.31 -1.76 -0.52 -0.32 -0.30 -0.30 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29 -0.29
-0.32 -0.52 -1.76 -9.31  0.00
13 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60 -1.60
```

Micro Shuttle POLAR 1.1 Results

-1.62 -1.76 -2.75 -9.69 0.00
14 1.E -6 * -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29 0.00
15 1.E -1 * 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00

QUSD INFORMATION FOR SLICE IZOB = 12

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00											
-3 1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.59	-1.56	-1.51	-1.42	-1.31	-1.23	-1.23	-1.31
-1.62	-1.76	-2.75	-9.69	0.00											
-2 1.E -5 *	-0.09	-0.02	-0.01	0.00	0.01	0.05	0.15	0.32	0.54	0.76	0.93	1.03	1.08	1.08	1.03
0.15	0.05	-0.01	-0.09	0.00											
-1 1.E -5 *	-0.09	-0.02	0.00	0.00	0.04	0.29	0.94	2.14	3.68	5.23	6.43	7.14	7.46	7.46	7.14
0.94	0.28	0.02	-0.09	0.00											
0 1.E -4 *	-0.01	0.00	0.00	0.00	0.01	0.08	0.49	1.25	2.32	3.32	3.97	4.36	4.46	4.46	4.36
0.49	0.08	0.01	-0.01	0.00											
1 1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.80	1.49	2.07	2.65	2.71	2.73	2.73	2.71
0.10	0.01	0.00	0.00	0.00											
2 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	2.28	4.44	4.49	4.49	4.49	4.49	4.49
0.01	0.00	0.00	0.00	0.00											
3 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	2.29	4.49	4.89	6.30	0.00	0.00	6.30
0.01	0.00	0.00	0.00	0.00											
4 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.16	0.31	1.78	6.08	0.00	0.00	6.08
0.01	0.00	0.00	0.00	0.00											
5 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0.13	1.28	3.42	6.50	6.50	3.42
0.01	0.00	0.00	0.00	0.00											
6 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.16	0.30	3.38	3.38	0.30
0.00	0.00	0.00	0.00	0.00											
7 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.14	1.19	1.19	0.14
0.00	0.00	0.00	0.00	0.00											
8 1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.32	1.15	5.09	7.10	7.10	5.09
0.00	0.00	0.00	-0.01	0.00											
9 1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.01	0.04	0.23	0.89	3.46	6.66	9.24	9.24	6.66
0.01	0.00	-0.02	-0.09	0.00											
10 1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.19	0.51	0.92	1.23	1.23	0.92
0.00	0.00	-0.02	-0.09	0.00											
11 1.E -6 *	-0.93	-0.16	-0.03	-0.01	-0.01	-0.01	-0.01	-0.01	0.06	0.25	0.66	1.15	1.51	1.51	1.15
-0.01	-0.03	-0.16	-0.93	0.00											
12 1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.30	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29
-0.32	-0.52	-1.76	-9.31	0.00											
13 1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
-1.62	-1.76	-2.75	-9.69	0.00											
14 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00											
15 1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00											

QUSD INFORMATION FOR SLICE IZOB = 13

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00											
-3 1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.59	-1.58	-1.53	-1.43	-1.27	-1.08	-0.95	-0.95	-1.08
-1.62	-1.76	-2.75	-9.69	0.00											
-2 1.E -6 *	-0.93	-0.18	-0.05	-0.03	0.07	0.45	1.40	2.95	4.88	6.76	8.20	9.08	9.46	9.46	9.08
1.39	0.43	-0.08	-0.93	0.00											
-1 1.E -5 *	-0.09	-0.02	0.00	0.00	0.04	0.28	0.88	1.96	3.32	4.65	5.67	6.27	6.54	6.54	6.27
0.86	0.28	0.02	-0.09	0.00											
0 1.E -4 *	-0.01	0.00	0.00	0.00	0.01	0.08	0.47	1.16	2.08	2.96	3.54	3.88	3.97	3.97	3.88
0.47	0.08	0.01	-0.01	0.00											
1 1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.78	1.37	1.76	2.23	2.30	2.34	2.34	2.30
0.09	0.01	0.00	0.00	0.00											
2 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	2.27	4.41	4.46	4.48	4.50	4.50	4.48
0.01	0.00	0.00	0.00	0.00											
3 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	2.27	4.43	4.72	6.15	0.00	0.00	6.15
0.01	0.00	0.00	0.00	0.00											
4 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.15	0.24	0.55	4.68	0.00	0.00	4.68
0.01	0.00	0.00	0.00	0.00											
5 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.09	0.21	2.38	6.50	6.50	2.38
0.00	0.00	0.00	0.00	0.00											
6 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.13	0.26	4.41	4.41	0.26
0.00	0.00	0.00	0.00	0.00											
7 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.13	2.24	2.24	0.13
0.00	0.00	0.00	0.00	0.00											
8 1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.28	1.13	6.82	6.84	6.84	6.82
0.00	0.00	0.00	-0.01	0.00											
9 1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.40	0.72	1.07	1.07	0.72
0.00	0.00	0.00	-0.01	0.00											
10 1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.21	0.56	1.05	1.37	1.37	1.05
0.00	0.00	-0.02	-0.09	0.00											
11 1.E -6 *	-0.93	-0.16	-0.03	-0.01	-0.01	-0.01	-0.01	-0.01	0.07	0.29	0.76	1.30	1.72	1.72	1.30
-0.01	-0.03	-0.16	-0.93	0.00											
12 1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.30	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29
-0.32	-0.52	-1.76	-9.31	0.00											
13 1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
-1.62	-1.76	-2.75	-9.69	0.00											
14 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00											
15 1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00											

QUSD INFORMATION FOR SLICE IZOB = 14

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.91	-0.91	-0.91	-0.91
-0.93	-0.93	-0.97	-1.29	0.00											
-3 1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.59	-1.56	-1.48	-1.30	-1.02	-0.69	-0.46	-0.46	-0.69
-1.61	-1.76	-2.75	-9.69	0.00											
-2 1.E -6 *	-0.93	-0.18	-0.05	-0.03	0.04	0.34	1.06	2.26	3.76	5.24	6.38	7.09	7.41	7.41	7.09
1.06	0.32	-0.10	-0.93	0.00											
-1 1.E -5 *	-0.09	-0.02	0.00	0.00	0.03	0.21	0.68	1.49	2.53	3.55	4.35	4.85	5.08	5.08	4.85
0.68	0.21	0.02	-0.09	0.00											
0 1.E -4 *	-0.01	0.00	0.00	0.00	0.01	0.06	0.33	0.86	1.57	2.22	2.69	2.97	3.07	3.07	2.97
0.33	0.06	0.01	-0.01	0.00											
1 1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.49	0.98	1.41	1.76	1.87	1.93	1.93	1.87
0.07	0.01	0.00	0.00	0.00											
2 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	1.17	2.28	2.34	2.43	2.54	2.54	2.43
0.01	0.00	0.00	0.00	0.00											
3 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	1.18	2.29	2.46	4.02	0.11	0.11	4.02
0.01	0.00	0.00	0.00	0.00											
4 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.10	0.17	0.37	2.63	0.12	0.12	2.63
0.01	0.00	0.00	0.00	0.00											
5 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.15	1.35	3.55	3.55	1.35
0.00	0.00	0.00	0.00	0.00											
6 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.07	0.20	2.31	2.31	0.20
0.00	0.00	0.00	0.00	0.00											
7 1.E -2 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.10	1.18	1.18	0.10
0.00	0.00	0.00	0.00	0.00											
8 1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.21	0.90	4.79	6.71	6.71	4.79
0.00	0.00	0.00	-0.01	0.00											
9 1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.70	3.15	6.23	8.75	8.75	6.23
0.00	0.00	-0.02	-0.09	0.00											
10 1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.18	0.49	0.89	1.20	1.20	0.89
0.00	0.00	-0.02	-0.09	0.00											
11 1.E -6 *	-0.93	-0.16	-0.03	-0.01	-0.01	-0.01	-0.01	-0.01	0.06	0.25	0.66	1.16	1.51	1.51	1.16
-0.01	-0.03	-0.16	-0.93	0.00											
12 1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29
-0.32	-0.52	-1.76	-9.31	0.00											
13 1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
-1.62	-1.76	-2.75	-9.69	0.00											
14 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00											
15 1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00											

QUSD INFORMATION FOR SLICE IZOB = 15

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.91	-0.90	-0.90	-0.90	-0.90
-0.92	-0.93	-0.97	-1.29	0.00												
-3	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.59	-1.58	-1.52	-1.37	-1.06	-0.57	-0.12	0.12	0.12	-0.12
-1.59	-1.76	-2.75	-9.69	0.00												
-2	1.E -6 *	-0.93	-0.18	-0.05	-0.03	0.01	0.19	0.64	1.41	2.41	3.43	4.27	4.80	5.04	5.04	4.80
0.63	0.17	-0.14	-0.93	0.00												
-1	1.E -5 *	-0.09	-0.02	0.00	0.00	0.02	0.12	0.40	0.91	1.57	2.25	2.79	3.14	3.32	3.32	3.14
0.40	0.12	0.00	-0.09	0.00												
0	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.04	0.17	0.46	0.89	1.30	1.63	1.82	1.91	1.91	1.82
0.17	0.03	0.00	-0.01	0.00												
1	1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.17	0.50	0.82	0.99	1.09	1.15	1.15	1.09
0.04	0.01	0.00	0.00	0.00												
2	1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.38	0.71	1.04	1.46	2.17	3.25	3.25	2.17
0.05	0.01	0.00	0.00	0.00												
3	1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.38	0.71	1.10	1.73	3.27	5.60	5.60	3.27
0.05	0.01	0.00	0.00	0.00												
4	1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.18	0.52	0.95	1.71	3.44	5.78	5.78	3.44
0.04	0.01	0.00	0.00	0.00												
5	1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.11	0.24	0.82	2.15	3.53	3.53	2.15
0.02	0.00	0.00	0.00	0.00												
6	1.E -3 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.09	0.33	1.25	1.56	1.56	1.25
0.00	0.00	0.00	0.00	0.00												
7	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.10	0.37	1.31	5.48	7.56	7.56	5.48
0.01	0.00	0.00	-0.01	0.00												
8	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.54	1.80	3.84	3.84	1.80
0.00	0.00	0.00	-0.01	0.00												
9	1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.44	1.70	3.89	5.37	5.37	3.89
0.00	0.00	-0.02	-0.09	0.00												
10	1.E -6 *	-0.92	-0.16	-0.03	-0.01	0.00	0.00	0.00	0.00	0.00	0.21	1.11	3.22	5.88	7.95	7.95	5.88
-0.01	-0.03	-0.16	-0.92	0.00												
11	1.E -6 *	-0.93	-0.16	-0.03	-0.01	-0.01	-0.01	-0.01	-0.01	0.03	0.17	0.44	0.79	1.04	1.04	0.79
-0.01	-0.03	-0.16	-0.93	0.00												
12	1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.28	-0.28	-0.28	-0.28
-0.32	-0.52	-1.76	-9.31	0.00												
13	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60
-1.62	-1.76	-2.75	-9.69	0.00												
14	1.E -6 *	-1.29	-0.97	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
15	1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00												

CUSD INFORMATION FOR SLICE IZOB = 16

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.91	-0.90	-0.88	-0.87	-0.87	-0.88
-0.92	-0.93	-0.97	-1.29	0.00												
-3	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.59	-1.55	-1.45	-1.18	-0.65	-0.05	0.34	0.79	0.79	0.34
-1.57	-1.75	-2.75	-9.69	0.00												
-2	1.E -6 *	-0.93	-0.18	-0.05	-0.03	-0.02	0.07	0.29	0.70	1.28	1.89	2.42	2.84	3.04	3.04	2.84
0.28	0.04	-0.16	-0.93	0.00												
-1	1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.05	0.18	0.43	0.76	1.11	1.42	1.64	1.75	1.75	1.64
0.18	0.05	-0.01	-0.09	0.00												
0	1.E -5 *	-0.09	-0.02	0.00	0.00	0.02	0.15	0.62	1.74	3.61	5.63	7.16	8.11	8.64	8.64	8.11
0.62	0.15	0.01	-0.09	0.00												
1	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.03	0.14	0.41	0.77	1.18	1.63	2.15	2.60	2.60	2.15
0.14	0.03	0.00	-0.01	0.00												
2	1.E -4 *	-0.01	0.00	0.00	0.00	0.01	0.04	0.23	0.58	1.13	1.64	2.58	4.17	5.72	5.72	4.17
0.23	0.04	0.00	-0.01	0.00												
3	1.E -4 *	-0.01	0.00	0.00	0.00	0.01	0.04	0.23	0.58	1.16	1.78	3.01	5.43	5.20	5.20	5.43
0.23	0.04	0.00	-0.01	0.00												
4	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.03	0.14	0.42	0.86	1.62	3.04	6.08	5.70	5.70	6.08
0.14	0.03	0.00	-0.01	0.00												
5	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.02	0.06	0.19	0.46	1.02	2.26	4.19	5.85	5.85	4.19
0.06	0.02	0.00	-0.01	0.00												
6	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.14	0.41	1.18	2.20	3.02	3.02	2.20
0.02	0.01	0.00	-0.01	0.00												
7	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.16	0.54	1.05	1.47	1.47	1.05
0.00	0.00	0.00	-0.01	0.00												
8	1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.61	2.07	4.52	6.19	6.19	4.52
0.00	0.00	-0.02	-0.09	0.00												
9	1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.21	0.66	1.48	2.29	2.29	1.48
0.00	0.00	-0.02	-0.09	0.00												
10	1.E -6 *	-0.92	-0.16	-0.03	-0.01	0.00	0.00	0.00	0.00	0.00	0.10	0.52	1.53	2.93	3.91	3.91	2.93
-0.01	-0.03	-0.16	-0.92	0.00												
11	1.E -7 *	-9.25	-1.62	-0.32	-0.11	-0.08	-0.08	-0.07	-0.06	0.10	0.77	2.20	4.05	5.45	5.45	4.05
-0.10	-0.32	-1.62	-9.25	0.00												
12	1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.29	-0.29	-0.29	-0.29	-0.29	-0.28	-0.27	-0.26	-0.26	-0.26	-0.26
-0.32	-0.52	-1.76	-9.31	0.00												
13	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.60	-1.59	-1.59	-1.59	-1.59
-1.62	-1.76	-2.75	-9.69	0.00												
14	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
15	1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00												

CUSD INFORMATION FOR SLICE IZOB = 17

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.91	-0.90	-0.87	-0.86	-0.85	-0.85	-0.86
-0.92	-0.93	-0.97	-1.29	0.00												
-3	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.59	-1.58	-1.51	-1.31	-0.85	-0.18	0.37	1.17	1.27	1.27	1.17
-1.53	-1.74	-2.74	-9.69	0.00												
-2	1.E -6 *	-0.93	-0.18	-0.05	-0.03	-0.03	0.00	0.09	0.30	0.57	0.93	1.31	1.65	1.86	1.86	1.65
0.09	-0.02	-0.17	-0.93	0.00												
-1	1.E -6 *	-0.93	-0.16	-0.03	-0.01	0.02	0.16	0.59	1.48	2.85	4.47	5.89	7.11	7.62	7.62	7.11
0.59	0.13	-0.14	-0.92	0.00												
0	1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.05	0.17	0.43	0.81	1.29	1.74	2.08	2.33	2.33	2.08
0.17	0.05	-0.01	-0.09	0.00												
1	1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.09	0.33	0.82	1.55	2.45	3.49	4.81	5.68	5.68	4.81
0.33	0.09	0.00	-0.09	0.00												
2	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.01	0.05	0.12	0.21	0.25	0.45	0.73	1.06	1.06	0.73
0.05	0.01	0.00	-0.01	0.00												
3	1.E -5 *	-0.09	-0.02	0.00	0.00	0.02	0.14	0.46	1.18	2.14	2.54	3.95	7.23	-2.65	-2.65	7.23
0.46	0.14	0.00	-0.09	0.00												
4	1.E -4 *	-0.01	0.00	0.00	0.00	0.00	0.01	0.04	0.09	0.18	0.34	0.57	1.14	-0.02	-0.02	1.14
0.04	0.01	0.00	-0.01	0.00												
5	1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.05	0.19	0.52	1.20	2.47	5.36	8.31	9.91	9.91	8.31
0.19	0.05	-0.01	-0.09	0.00												
6	1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.02	0.07	0.21	0.55	1.37	2.80	4.92	5.33	5.33	4.92
0.07	0.02	-0.01	-0.09	0.00												
7	1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.02	0.06	0.20	0.60	1.38	2.33	3.02	3.02	2.33
0.02	0.00	-0.02	-0.09	0.00												
8	1.E -5 *	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.24	0.58	1.02	1.39	1.39	1.02
0.00	0.00	-0.02	-0.09	0.00												
9	1.E -6 *	-0.92	-0.16	-0.03	-0.01	0.00	0.00	0.00	0.01	0.05	0.25	0.82	2.06	3.78	4.93	4.93	3.78
0.01	-0.03	-0.16	-0.92	0.00												
10	1.E -6 *	-0.92	-0.16	-0.03	-0.01	0.00	0.00	0.00	0.01	0.06	0.22	0.56	1.03	1.43	1.43	1.03
0.00	-0.03	-0.16	-0.92	0.00												
11	1.E -7 *	-9.25	-1.62	-0.32	-0.11	-0.08	-0.07	-0.07	-0.05	0.02	0.30	0.89	1.67	2.23	2.23	1.67
-0.10	-0.32	-1.62	-9.25	0.00												
12	1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.29	-0.29	-0.29	-0.29	-0.28	-0.27	-0.25	-0.23	-0.22	-0.22	-0.23
-0.32	-0.52	-1.76	-9.31	0.00												
13	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.60	-1.60	-1.59	-1.59	-1.59	-1.59	-1.59	-1.59	-1.59
-1.62	-1.76	-2.75	-9.69	0.00												
14	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00												
15	1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00												

CUSD INFORMATION FOR SLICE IZOB = 18

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4	1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.91	-0.90	-0.87	-0.86	-0.84	-0.84	-0.84	-0.84
-0.92	-0.93	-0.97	-1.29	0.00												
-3	1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.59	-1.55	-1.43	-1.09	-0.43	0.06	0.94	1.50	1.88	1.88	1.50
-1.45	-1.72	-2.74	-9.69	0.00												
-2	1.E -6 *	-0.93	-0.18	-0.05	-0.03	-0.03	-0.01	0.04	0.15	0.34	0.59	0.93	1.25	1.46	1.46	1.25
0.04	-0.03	-0.17	-0.93	0.00												

Micro Shuttle POLAR 1.1 Results

-1 1.E -6 * -0.93 -0.16 -0.03 -0.01 0.00 0.05 0.22 0.56 1.06 1.82 2.41 3.15 3.31 3.31 3.15
0.21 0.03 -0.15 -0.92 0.00
0 1.E -6 * -0.92 -0.16 -0.03 -0.01 0.0 0.15 0.53 1.36 2.75 4.79 6.11 6.42 7.12 7.12 6.42
0.53 0.12 -0.13 -0.92 0.00
1 1.E -5 * -0.09 -0.02 0.00 0.00 0.00 0.03 0.09 0.24 0.42 0.63 0.87 1.31 1.58 1.58 1.31
0.09 0.02 -0.01 -0.09 0.00
2 1.E -5 * -0.09 -0.02 0.00 0.00 0.01 0.04 0.13 0.33 0.59 0.35 0.97 1.34 2.26 2.26 1.34
0.13 0.03 -0.01 -0.09 0.00
3 1.E -5 * -0.09 -0.02 0.00 0.00 0.01 0.04 0.13 0.35 0.56 0.09 -0.22 0.35 -7.39 -7.39 0.35
0.13 0.04 -0.01 -0.09 0.00
4 1.E -5 * -0.09 -0.02 0.00 0.00 0.01 0.03 0.11 0.30 0.45 0.76 0.74 2.71 -6.39 -6.39 2.71
0.11 0.03 -0.01 -0.09 0.00
5 1.E -5 * -0.09 -0.02 0.00 0.00 0.00 0.02 0.07 0.19 0.46 0.84 1.84 2.06 1.85 1.85 2.06
0.07 0.02 -0.01 -0.09 0.00
6 1.E -5 * -0.09 -0.02 0.00 0.00 0.00 0.01 0.04 0.10 0.24 0.48 0.90 1.37 1.16 1.16 1.37
0.04 0.01 -0.01 -0.09 0.00
7 1.E -6 * -0.92 -0.16 -0.03 -0.01 0.01 0.05 0.17 0.42 0.99 2.45 4.69 6.29 8.63 7.63 6.29
0.17 0.03 -0.15 -0.92 0.00
8 1.E -6 * -0.92 -0.16 -0.03 -0.01 0.0 0.02 0.08 0.20 0.42 1.00 2.03 3.37 4.45 4.45 3.37
0.07 -0.01 -0.15 -0.92 0.00
9 1.E -6 * -0.92 -0.16 -0.03 -0.01 0.00 0.00 0.03 0.08 0.19 0.40 0.77 1.22 1.54 1.54 1.22
0.02 -0.02 -0.16 -0.92 0.00
10 1.E -7 * -9.24 -1.60 -0.29 -0.08 -0.04 -0.02 0.05 0.23 0.67 1.39 2.29 3.60 4.36 4.36 3.60
0.02 -0.27 -1.59 -9.24 0.00
11 1.E -7 * -9.25 -1.62 -0.32 -0.11 -0.08 0.07 -0.05 -0.01 0.08 0.26 0.54 0.80 1.06 1.06 0.80
-0.08 -0.31 -1.62 -9.25 0.00
12 1.E -7 * -9.31 -1.76 -0.52 -0.32 -0.29 -0.29 -0.29 -0.28 -0.27 -0.24 -0.20 -0.17 -0.14 -0.14 -0.17
-0.32 -0.52 -1.76 -9.31 0.00
13 1.E -7 * -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.60 -1.59 -1.59 -1.58 -1.58 -1.57 -1.57 -1.58
-1.62 -1.76 -2.75 -9.69 0.00
14 1.E -6 * -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29 0.00
15 1.E -1 * 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00

QUSD INFORMATION FOR SLI'E IZOB = 19

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.91	-0.88	-0.85	-0.85	-0.83	-0.84	-0.84	-0.83
-0.92	-0.93	-0.97	-1.29	0.00											
-3 1.E -7 *	-9.69	-2.75	-1.76	-1.61	-1.58	-1.51	-1.29	-0.81	-0.07	0.49	1.54	2.37	2.56	2.56	2.37
-1.31	-1.68	-2.73	-9.69	0.00											
2 1.E -6 *	-0.93	-0.18	-0.05	-0.03	-0.02	0.00	0.06	0.14	0.33	0.62	0.97	1.27	1.48	1.48	1.27
0.05	-0.03	-0.17	-0.93	0.00											
-1 1.E -6 *	-0.93	-0.16	-0.03	-0.01	0.01	0.06	0.18	0.50	0.88	1.48	1.81	2.24	2.52	2.52	2.24
0.18	0.03	-0.15	-0.92	0.00											
0 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.02	0.12	0.39	1.01	1.96	3.17	3.84	3.86	3.45	3.45	3.86
0.38	0.09	-0.13	-0.92	0.00											
1 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.04	0.18	0.67	1.49	1.40	1.06	2.12	4.89	6.23	6.23	4.89
0.67	0.16	-0.11	-0.92	0.00											
2 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.06	0.26	0.85	1.94	2.09	0.04	1.91	3.30	2.40	2.40	3.30
0.85	0.24	-0.09	-0.91	0.00											
3 1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.03	0.09	0.20	0.20	-0.27	-0.93	-0.90	-6.91	-6.91	-0.90
0.09	0.02	-0.01	-0.09	0.00											
4 1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.02	0.08	0.19	0.09	0.09	-0.27	0.37	-6.65	-6.65	0.37
0.08	0.02	-0.01	-0.09	0.00											
5 1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.02	0.06	0.15	0.31	0.46	1.09	0.73	0.00	0.00	0.73
0.06	0.02	-0.01	-0.09	0.00											
6 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.04	0.12	0.36	0.95	1.92	3.23	5.12	5.84	2.15	2.15	5.84
0.36	0.10	-0.12	-0.92	0.00											
7 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.02	0.08	0.18	0.47	0.80	1.85	3.16	1.92	3.80	3.80	1.92
0.18	0.06	-0.14	-0.92	0.00											
8 1.E -6 *	-0.92	-0.16	-0.03	-0.01	0.00	0.04	0.10	0.26	0.47	0.78	1.46	2.22	2.52	2.52	2.22
0.10	0.01	-0.15	-0.92	0.00											
9 1.E -6 *	-0.92	-0.16	-0.03	-0.01	0.00	0.01	0.05	0.10	0.19	0.41	0.64	0.94	1.12	1.12	0.94
0.05	-0.01	-0.16	-0.92	0.00											
10 1.E -7 *	-9.24	-1.60	-0.29	-0.08	-0.04	0.00	0.13	0.46	0.94	1.30	2.24	2.91	3.06	3.06	2.91
0.10	-0.24	-1.59	-9.24	0.00											
11 1.E -7 *	-9.25	-1.62	-0.32	-0.11	-0.07	-0.06	-0.03	0.04	0.21	0.48	0.73	0.94	0.99	0.99	0.94
-0.06	-0.31	-1.61	-9.25	0.00											
12 1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.29	-0.29	-0.28	-0.27	-0.24	-0.18	-0.11	-0.04	0.01	0.01	-0.04
-0.31	-0.51	-1.76	-9.31	0.00											

13 1.E -7 * -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.60 -1.59 -1.59 -1.58 -1.57 -1.55 -1.55 -1.55 -1.55
-1.62 -1.76 -2.75 -9.69 0.00
14 1.E -6 * -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29 0.00
15 1.E -1 * 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00

QUSD INFORMATION FOR SLICE IZOB = 20

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4 1.E -6 *	-1.29	-0.97	-0.93	-0.92	-0.92	-0.92	-0.91	-0.89	-0.87	-0.85	-0.84	-0.87	-0.83	-0.83	-0.87
-0.91	-0.93	-0.97	-1.29	0.00											
-3 1.E -7 *	-9.69	-2.75	-1.76	-1.61	-1.56	-1.43	-1.05	-0.58	0.41	1.17	2.04	2.91	3.19	3.19	2.91
-1.07	-1.60	-2.71	-9.68	0.00											
-2 1.E -6 *	-0.93	-0.18	-0.05	-0.03	-0.02	0.02	0.08	0.21	0.39	0.76	1.10	1.42	1.63	1.63	1.42
0.08	-0.01	-0.17	-0.93	0.00											
-1 1.E -6 *	-0.93	-0.16	-0.03	-0.01	0.02	0.08	0.25	0.58	0.99	1.56	1.67	2.78	2.37	2.37	2.78
0.25	0.06	-0.14	-0.92	0.00											
0 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.04	0.16	0.49	1.04	1.70	2.56	2.87	2.63	2.99	2.99	2.63
0.48	0.13	-0.11	-0.92	0.00											
1 1.E -6 *	-0.92	-0.16	-0.03	0.01	0.07	0.23	0.69	1.39	0.94	0.76	0.58	2.66	5.04	5.04	2.66
0.69	0.21	-0.09	-0.91	0.00											
2 1.E -6 *	-0.92	-0.16	-0.03	0.01	0.09	0.31	0.91	1.82	1.95	1.87	2.36	-0.16	-3.44	-3.44	-0.16
0.91	0.28	-0.06	-0.91	0.00											
3 1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.03	0.09	0.18	0.15	-0.14	-0.74	-0.71	-4.97	-4.97	-0.71
0.09	0.03	-0.01	-0.09	0.00											
4 1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.03	0.08	0.18	0.04	-0.07	-0.51	-0.16	-4.98	-4.98	-0.16
0.08	0.03	-0.01	-0.09	0.00											
5 1.E -6 *	-0.92	-0.16	-0.03	0.01	0.09	0.24	0.77	1.51	2.50	4.52	7.66	2.10	-3.80	-3.80	2.10
0.72	0.22	-0.07	-0.91	0.00											
6 1.E -6 *	-0.92	-0.16	-0.03	0.01	0.06	0.16	0.48	1.06	1.93	3.31	5.14	4.20	2.27	2.27	4.20
0.48	0.13	-0.10	-0.91	0.00											
7 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.03	0.11	0.23	0.58	0.89	1.87	3.05	1.82	2.88	2.88	1.82
0.23	0.08	-0.12	-0.92	0.00											
8 1.E -6 *	-0.92	-0.16	-0.03	0.00	0.01	0.06	0.15	0.29	0.49	0.87	1.52	1.91	2.40	2.40	1.91
0.15	0.03	-0.14	-0.92	0.00											
9 1.E -6 *	-0.92	-0.16	-0.03	-0.01	0.00	0.02	0.07	0.14	0.25	0.52	0.75	1.12	1.28	1.28	1.12
0.06	0.00	-0.15	-0.92	0.00											
10 1.E -7 *	-9.24	-1.60	-0.29	-0.07	-0.02	0.05	0.27	0.71	1.18	1.60	2.72	3.30	3.84	3.84	3.30
0.25	-0.19	-1.57	-9.24	0.00											
11 1.E -7 *	-9.25	-1.62	-0.32	-0.10	-0.07	-0.05	0.01	0.15	0.43	0.71	0.87	1.36	1.35	1.35	1.36
-0.02	-0.29	-1.61	-9.25	0.00											
12 1.E -7 *	-9.31	-1.76	-0.52	-0.32	-0.29	-0.29	-0.27	-0.24	-0.18	-0.07	0.06	0.10	0.18	0.18	0.10
-0.30	-0.51	-1.76	-9.31	0.00											
13 1.E -7 *	-9.69	-2.75	-1.76	-1.62	-1.60	-1.60	-1.59	-1.59	-1.58	-1.56	-1.53	-1.51	-1.49	-1.49	-1.51
-1.61	-1.76	-2.75	-9.69	0.00											
14 1.E -6 *	-1.29	-0.97	-0.93	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
-0.93	-0.93	-0.97	-1.29	0.00											
15 1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00											

QUSD INFORMATION FOR SLICE IZOB = 21

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
15	16	17	18	19											
-4 1.E -6 *	-1.29	-0.97	-0.93	-0.92	-0.92	-0.92	-0.90	-0.89	-0.88	-0.83	-0.87	-0.90	-0.87	-0.87	-0.90
-0.90	-0.92	-0.97	-1.29	0.00											
-3 1.E -7 *	-9.69	-2.75	-1.76	-1.60	-1.52	-1.30	-0.97	-0.15	0.97	1.99	2.84	3.48	3.80	3.80	3.48
-0.99	-1.46	-2.67	-9.68	0.00											
-2 1.E -6 *	-0.93	-0.18	-0.05	-0.03	-0.01	0.04	0.13	0.25	0.47	0.82	1.20	1.50	1.72	1.72	1.50
0.13	0.02	-0.16	-0.93	0.00											
-1 1.E -6 *	-0.93	-0.16	-0.03	0.00	0.04	0.09	0.33	0.64	1.03	1.47	1.83	2.31	2.33	2.33	2.31
0.33	0.06	-0.12	-0.92	0.00											
0 1.E -6 *	-0.92	-0.16	-0.03	0.01	0.06	0.22	0.59	1.17	1.63	2.00	2.21	1.89	1.51	1.51	1.89
0.59	0.19	-0.09	-0.91	0.00											
1 1.E -6 *	-0.92	-0.16	-0.02	0.02	0.11	0.30	0.82	1.13	0.08	0.49	-1.67	2.27	1.54	1.54	2.27
0.82	0.27	-0.05	-0.90	0.00											
2 1.E -6 *	-0.92	-0.16	-0.02	0.03	0.11	0.36	1.02	1.51	2.85	2.11	4.01	-0.58	-6.81	-6.81	-0.58
1.01	0.34	-0.05	-0.89	0.00											
3 1.E -5 *	-0.09	-0.02	0.00	0.00	0.01	0.04	0.11	0.14	0.18	0.04	-0.32	-0.34	-3.50	-3.50	-0.34

Micro Shuttle POLAR 1.1 Results

```
 0.11  0.04  0.00 -0.09  0.00
 4 1.E -5 *   -0.09 -0.02  0.00  0.00  0.01  0.03  0.09  0.14 -0.05 -0.08 -0.44 -0.29 -3.54 -3.54 -0.29
 0.09  0.03  0.00 -0.09  0.00
 5 1.E -6 *   -0.92 -0.16 -0.02  0.03  0.10  0.29  0.77  1.52  2.91  2.68  6.26  0.95 -4.08 -4.08  0.95
 0.77  0.26 -0.05 -0.89  0.00
 6 1.E -6 *   -0.92 -0.16 -0.02  0.02  0.09  0.20  0.58  1.04  1.79  3.25  3.88  2.97  2.75  2.75  2.97
 0.58  0.17 -0.06 -0.90  0.00
 7 1.E -6 *   -0.92 -0.16 -0.03  0.01  0.05  0.14  0.30  0.65  0.96  1.74  3.19  1.30  2.36  2.36  1.30
 0.30  0.12 -0.10 -0.91  0.00
 8 1.E -6 *   -0.92 -0.16 -0.03  0.00  0.03  0.07  0.16  0.37  0.56  1.03  1.36  2.29  2.00  2.00  2.29
 0.16  0.05 -0.13 -0.92  0.00
 9 1.E -6 *   -0.92 -0.16 -0.03  0.00  0.01  0.04  0.10  0.18  0.27  0.61  0.86  1.16  1.33  1.33  1.16
 0.09  0.01 -0.15 -0.92  0.00
10 1.E -7 *   -9.24 -1.60 -0.29 -0.06  0.00  0.14  0.43  0.72  1.65  2.08  3.17  3.96  4.48  4.48  3.96
 0.60 -0.11 -1.53 -9.23  0.00
11 1.E -7 *   -9.25 -1.62 -0.32 -0.10 -0.06 -0.02  0.09  0.33  0.60  0.87  1.06  1.46  1.77  1.77  1.46
 0.06 -0.26 -1.60 -9.25  0.00
12 1.E -7 *   -9.31 -1.76 -0.52 -0.32 -0.29 -0.28 -0.25 -0.19 -0.08  0.11  0.26  0.35  0.47  0.47  0.35
-0.28 -0.50 -1.76 -9.31  0.00
13 1.E -7 *   -9.69 -2.75 -1.76 -1.62 -1.60 -1.60 -1.59 -1.58 -1.55 -1.52 -1.47 -1.42 -1.39 -1.39 -1.42
-1.61 -1.76 -2.75 -9.69  0.00
14 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 22

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.92 -0.91 -0.90 -0.89 -0.88 -0.88 -0.89 -0.94 -0.94 -0.94 -0.94
-0.90 -0.92 -0.97 -1.29  0.00
-3 1.E -7 *   -9.69 -2.76 -1.77 -1.60 -1.47 -1.19 -0.77  0.35  1.61  2.62  3.24  3.64  3.83  3.83  3.64
-0.79 -1.35 -2.62 -9.67  0.00
-2 1.E -6 *   -0.93 -0.18 -0.05 -0.03  0.01  0.07  0.19  0.29  0.56  0.88  1.17  1.43  1.88  1.88  1.43
 0.18  0.04 -0.14 -0.92  0.00
-1 1.E -6 *   -0.93 -0.16 -0.03  0.01  0.06  0.12  0.38  0.44  0.89  1.57  1.75  2.33  1.63  1.63  2.33
 0.38  0.10 -0.09 -0.91  0.00
 0 1.E -6 *   -0.93 -0.16 -0.03  0.02  0.07  0.27  0.59  0.93  1.52  1.35  1.53  0.98  1.08  1.08  0.98
 0.59  0.25 -0.09 -0.90  0.00
 1 1.E -6 *   -0.92 -0.16 -0.02  0.03  0.15  0.33  0.68  0.85 -0.64 -0.24 -2.49  0.56  0.66  0.66  0.56
 0.68  0.31 -0.01 -0.89  0.00
 2 1.E -6 *   -0.92 -0.16 -0.02  0.05  0.12  0.44  0.86  1.62  2.44  1.75  1.58 -0.51 -8.97 -8.97 -0.51
 0.85  0.42 -0.03 -0.88  0.00
 3 1.E -5 *   -0.09 -0.02  0.00  0.00  0.02  0.05  0.10  0.17  0.21 -0.02 -0.35 -0.43 -2.80 -2.80 -0.43
 0.10  0.05  0.00 -0.09  0.00
 4 1.E -5 *   -0.09 -0.02  0.00  0.00  0.02  0.04  0.07  0.12 -0.13 -0.24 -0.80 -0.69 -3.05 -3.05 -0.69
 0.07  0.03  0.00 -0.09  0.00
 5 1.E -6 *   -0.92 -0.16 -0.02  0.05  0.12  0.33  0.72  1.45  2.15  2.11  3.49 -4.43 -5.58 -5.58 -4.43
 0.72  0.31 -0.04 -0.88  0.00
 6 1.E -6 *   -0.92 -0.16 -0.02  0.03  0.13  0.25  0.64  0.94  1.41  2.41  2.85  1.11  0.99  0.95  1.11
 0.63  0.23 -0.03 -0.90  0.00
 7 1.E -6 *   -0.93 -0.16 -0.03  0.02  0.06  0.19  0.47  0.69  1.11  1.92  2.41 -0.35  3.67  3.67 -0.35
 0.36  0.16 -0.09 -0.90  0.00
 8 1.E -6 *   -0.93 -0.16 -0.03  0.00  0.04  0.09  0.20  0.44  0.66  0.94  1.61  1.81  1.32  1.32  1.81
 0.19  0.07 -0.11 -0.91  0.00
 9 1.E -6 *   -0.93 -0.16 -0.03  0.00  0.02  0.05  0.13  0.19  0.31  0.68  0.88  1.20  1.36  1.36  1.20
 0.13  0.02 -0.14 -0.92  0.00
10 1.E -7 *   -9.25 -1.62 -0.32 -0.08  0.02  0.26  0.54  0.95  2.08  2.54  3.80  4.58  5.14  5.14  4.58
 0.51  0.01 -1.52 -9.23  0.00
11 1.E -7 *   -9.26 -1.64 -0.34 -0.13 -0.07  0.00  0.20  0.42  0.65  1.20  1.38  1.85  2.03  2.03  1.85
 0.17 -0.24 -1.60 -9.25  0.00
12 1.E -7 *   -9.31 -1.78 -0.54 -0.34 -0.31 -0.29 -0.24 -0.13  0.08  0.21  0.44  0.53  0.70  0.70  0.53
-0.27 -0.51 -1.77 -9.31  0.00
13 1.E -7 *   -9.69 -2.76 -1.78 -1.64 -1.62 -1.61 -1.60 -1.58 -1.53 -1.46 -1.33 -1.28 -1.31 -1.31 -1.28
-1.62 -1.77 -2.76 -9.69  0.00
14 1.E -6 *   -1.29 -0.97 -0.93 -0.93 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.93 -0.97 -1.29  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 23

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.29 -0.97 -0.94 -0.93 -0.92 -0.91 -0.90 -0.93 -0.90 -0.86 -0.94 -0.95 -1.09 -1.09 -0.95
-0.90 -0.91 -0.97 -1.29  0.00
-3 1.E -7 *   -9.73 -2.86 -1.90 -1.72 -1.52 -1.26 -0.68  0.65  1.79  2.60  2.79  2.32  4.10  4.10  2.32
-0.70 -1.40 -2.62 -9.68  0.00
-2 1.E -6 *   -0.94 -0.19 -0.07 -0.04  0.00  0.08  0.15  0.32  0.51  0.73  1.11  1.62  1.74  1.74  1.62
 0.15  0.06 -0.14 -0.92  0.00
-1 1.E -6 *   -0.93 -0.18 -0.05  0.00  0.04  0.12  0.39  0.63  0.83  1.47  1.43  1.90  1.80  1.80  1.90
 0.39  0.10 -0.10 -0.91  0.00
 0 1.E -6 *   -0.93 -0.17 -0.04  0.01  0.06  0.28  0.60  0.66  1.01  0.47  0.17  0.14  0.02  0.02  0.14
 0.59  0.26 -0.09 -0.90  0.00
 1 1.E -6 *   -0.93 -0.17 -0.03  0.03  0.13  0.36  0.58  0.78  0.02 -1.52 -1.19 -0.98 -0.74 -0.74 -0.98
 0.58  0.33 -0.02 -0.89  0.00
 2 1.E -5 *   -0.09 -0.02  0.00  0.00  0.01  0.05  0.07  0.08  0.15  0.10  0.07 -0.19 -1.00 -1.00 -0.19
 0.07  0.04  0.00 -0.09  0.00
 3 1.E -5 *   -0.09 -0.02  0.00  0.00  0.01  0.05  0.08  0.13  0.03 -0.10 -0.57 -0.57 -2.47 -2.47 -0.57
 0.08  0.05  0.00 -0.09  0.00
 4 1.E -5 *   -0.09 -0.02  0.00  0.00  0.01  0.04  0.05  0.15 -0.09 -0.25 -0.51 -0.56 -2.59 -2.59 -0.56
 0.05  0.03  0.00 -0.09  0.00
 5 1.E -6 *   -0.93 -0.17 -0.03  0.03  0.12  0.30  0.64  0.93  1.86  1.38  1.72 -5.29 -9.95 -9.95 -5.29
 0.64  0.27 -0.03 -0.89  0.00
 6 1.E -6 *   -0.93 -0.17 -0.03  0.02  0.10  0.25  0.59  1.16  1.24  2.41  2.04  1.57 -0.41 -0.41  1.57
 0.58  0.23 -0.05 -0.89  0.00
 7 1.E -6 *   -0.93 -0.17 -0.04  0.01  0.05  0.21  0.30  0.56  0.93  1.60  2.25 -0.84  1.60  1.60 -0.84
 0.30  0.19 -0.10 -0.90  0.00
 8 1.E -6 *   -0.93 -0.18 -0.05 -0.01  0.02  0.07  0.21  0.45  0.53  1.20  1.24  1.75  1.39  1.39  1.75
 0.21  0.05 -0.13 -0.91  0.00
 9 1.E -6 *   -0.93 -0.18 -0.05 -0.02  0.01  0.04  0.09  0.16  0.35  0.67  0.73  0.90  1.17  1.17  0.90
 0.09  0.02 -0.14 -0.92  0.00
10 1.E -7 *   -9.31 -1.76 -0.52 -0.28 -0.12  0.04  0.48  0.95  2.16  2.38  3.80  4.22  4.64  4.64  4.22
 0.45 -0.18 -1.59 -9.27  0.00
11 1.E -7 *   -9.31 -1.78 -0.54 -0.33 -0.26 -0.14  0.09  0.07  0.65  0.93  1.29  1.67  1.61  1.61  1.67
 0.06 -0.36 -1.72 -9.30  0.00
12 1.E -7 *   -9.36 -1.91 -0.72 -0.54 -0.50 -0.47 -0.37 -0.18 -0.04 -0.02  0.47  0.48  0.58  0.58  0.48
-0.40 -0.67 -1.90 -9.36  0.00
13 1.E -7 *   -9.73 -2.86 -1.91 -1.78 -1.76 -1.75 -1.73 -1.69 -1.60 -1.49 -1.43 -1.40 -1.32 -1.32 -1.40
-1.75 -1.90 -2.85 -9.73  0.00
14 1.E -6 *   -1.29 -0.97 -0.94 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93 -0.92 -0.92 -0.92 -0.92 -0.92 -0.92
-0.93 -0.94 -0.97 -1.29  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 24

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.30 -1.00 -0.97 -0.93 -0.90 -0.95 -0.96 -1.01 -1.00 -0.99 -1.06 -1.19 -1.31 -1.31 -1.19
-0.96 -0.95 -0.99 -1.30  0.00
-3 1.E -6 *   -1.00 -0.36 -0.28 -0.27 -0.26 -0.23 -0.19 -0.08 -0.02 -0.08 -0.18 -0.15  0.00  0.00 -0.15
-0.19 -0.24 -0.34 -1.00  0.00
-2 1.E -7 *   -9.73 -2.85 -1.87 -1.58 -1.28 -0.53 -0.49  0.05  0.16  2.17  4.14  7.38  7.85  7.85  7.38
-0.51 -0.68 -2.18 -9.67  0.00
-1 1.E -7 *   -9.69 -2.75 -1.70 -1.30 -1.01 -0.67  0.24  0.81  0.76  0.24 -3.48 -3.68 -3.67 -3.67 -3.68
 0.22 -0.83 -2.16 -9.44  0.00
 0 1.E -6 *   -0.97 -0.27 -0.16 -0.12 -0.09  0.05  0.09  0.32 -0.49 -1.47 -2.25 -3.02 -3.56 -3.56 -3.02
 0.09  0.03 -0.21 -0.94  0.00
 1 1.E -6 *   -0.97 -0.27 -0.15 -0.11 -0.02  0.02  0.11 -0.08 -1.25 -2.00 -4.91 -3.63 -5.27 -5.27 -3.63
 0.10  0.00 -0.13 -0.94  0.00
 2 1.E -5 *   -0.10 -0.03 -0.01 -0.01 -0.01  0.01  0.02  0.02  0.02 -0.09 -0.20 -0.62 -1.38 -1.38 -0.62
 0.02  0.01 -0.02 -0.09  0.00
 3 1.E -5 *   -0.10 -0.03 -0.01 -0.01  0.00  0.01  0.03  0.01 -0.04 -0.31 -0.55 -0.73 -2.11 -2.11 -0.73
 0.03  0.01 -0.02 -0.10  0.00
 4 1.E -5 *   -0.10 -0.03 -0.01 -0.01  0.00  0.00  0.00  0.00 -0.23 -0.54 -0.76 -0.81 -2.31 -2.31 -0.81
 0.00 -0.01 -0.01 -0.10  0.00
 5 1.E -5 *   -0.10 -0.03 -0.02 -0.01 -0.01  0.00  0.00  0.01 -0.06 -0.21 -0.32 -0.91 -1.18 -1.18 -0.91
 0.00  0.00 -0.02 -0.09  0.00
 6 1.E -6 *   -0.97 -0.27 -0.15 -0.11 -0.06  0.00  0.06  0.22 -0.12  0.10 -1.26 -3.79 -3.11 -3.11 -3.79
 0.06 -0.02 -0.17 -0.94  0.00
 7 1.E -6 *   -0.97 -0.27 -0.16 -0.13 -0.10  0.03 -0.03  0.30  0.02 -0.29 -0.18 -1.94 -0.70 -0.70 -1.94
-0.03  0.02 -0.21 -0.95  0.00
```

Micro Shuttle POLAR 1.1 Results

```
 8 1.E -7 *   -9.69 -2.74 -1.69 -1.34 -1.34 -0.92  0.00  1.09  1.56  2.85 -0.67  1.25 -5.80 -5.80  1.25
-0.02 -1.08 -2.50 -9.49  0.00
 9 1.E -7 *   -9.69 -2.74 -1.73 -1.45 -1.22 -1.02 -0.85 -0.17  0.32  1.80  2.62  5.37  5.32  5.32  5.37
-0.87 -1.18 -2.37 -9.56  0.00
10 1.E -7 *   -9.69 -2.75 -1.75 -1.56 -1.44 -1.37 -0.94 -0.71  0.34 -0.15  1.20  0.05  2.53  2.53  0.05
-0.96 -1.53 -2.59 -9.64  0.00
11 1.E -7 *   -9.69 -2.76 -1.78 -1.62 -1.54 -1.45 -1.26 -1.47 -0.78 -0.86 -0.72  0.30 -0.95 -0.95  0.30
-1.27 -1.61 -2.68 -9.68  0.00
12 1.E -7 *   -9.73 -2.86 -1.91 -1.78 -1.74 -1.69 -1.56 -1.47 -1.41 -1.39 -0.90 -1.06 -0.95 -0.95 -1.06
-1.57 -1.84 -2.84 -9.73  0.00
13 1.E -6 *   -1.00 -0.36 -0.29 -0.28 -0.27 -0.27 -0.27 -0.26 -0.25 -0.25 -0.25 -0.25 -0.23 -0.23 -0.25
-0.27 -0.28 -0.36 -1.00  0.00
14 1.E -6 *   -1.30 -1.00 -0.97 -0.97 -0.97 -0.97 -0.97 -0.97 -0.97 -0.96 -0.96 -0.95 -0.96 -0.96 -0.95
-0.97 -0.97 -1.00 -1.30  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   25

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.44 -1.30 -1.29 -1.29 -1.29 -1.30 -1.35 -1.50 -1.59 -1.73 -1.85 -2.23 -2.33 -2.33 -2.23
-1.35 -1.30 -1.31 -1.44  0.00
-3 1.E -6 *   -1.30 -1.00 -0.97 -0.96 -0.99 -1.02 -1.10 -1.15 -1.46 -1.82 -2.35 -2.58 -2.80 -2.80 -2.58
-1.10 -1.03 -1.03 -1.30  0.00
-2 1.E -6 *   -1.29 -0.97 -0.93 -0.94 -0.95 -1.01 -1.24 -1.73 -2.45 -2.88 -3.42 -3.88 -4.12 -4.12 -3.88
-1.24 -1.02 -0.99 -1.30  0.00
-1 1.E -6 *   -1.29 -0.97 -0.93 -0.94 -1.00 -1.20 -1.55 -2.31 -3.75 -4.81 -6.94 -7.69 -8.70 -8.70 -7.69
-1.55 -1.21 -1.04 -1.31  0.00
 0 1.E -5 *   -0.13 -0.10 -0.09 -0.10 -0.11 -0.13 -0.21 -0.33 -0.60 -0.94 -1.30 -1.54 -1.82 -1.82 -1.56
-0.21 -0.13 -0.11 -0.13  0.00
 1 1.E -5 *   -0.13 -0.10 -0.09 -0.10 -0.11 -0.15 -0.26 -0.43 -0.87 -1.23 -1.93 -2.23 -2.59 -2.59 -2.23
-0.26 -0.16 -0.11 -0.14  0.00
 2 1.E -5 *   -0.13 -0.10 -0.09 -0.10 -0.12 -0.16 -0.29 -0.42 -0.74 -1.34 -1.89 -2.80 -4.04 -4.04 -2.80
-0.29 -0.16 -0.12 -0.14  0.00
 3 1.E -5 *   -0.13 -0.10 -0.10 -0.10 -0.12 -0.17 -0.29 -0.47 -0.94 -1.64 -2.49 -3.33 -4.94 -4.94 -3.33
-0.29 -0.17 -0.13 -0.14  0.00
 4 1.E -5 *   -0.13 -0.10 -0.10 -0.10 -0.12 -0.19 -0.31 -0.54 -1.23 -1.84 -2.83 -3.67 -5.12 -5.12 -3.67
-0.31 -0.19 -0.13 -0.14  0.00
 5 1.E -5 *   -0.13 -0.10 -0.09 -0.10 -0.12 -0.16 -0.27 -0.45 -0.81 -1.40 -2.11 -3.13 -3.76 -3.76 -3.13
-0.27 -0.16 -0.12 -0.14  0.00
 6 1.E -5 *   -0.13 -0.10 -0.09 -0.10 -0.11 -0.15 -0.23 -0.32 -0.61 -0.86 -1.50 -2.03 -2.27 -2.27 -2.03
-0.23 -0.15 -0.11 -0.14  0.00
 7 1.E -5 *   -0.13 -0.10 -0.09 -0.10 -0.10 -0.12 -0.18 -0.25 -0.39 -0.60 -0.82 -1.33 -1.23 -1.23 -1.33
-0.18 -0.12 -0.11 -0.13  0.00
 8 1.E -6 *   -1.29 -0.97 -0.93 -0.94 -1.02 -1.10 -1.35 -1.65 -2.77 -3.42 -5.28 -6.29 -7.43 -7.43 -6.29
-1.35 -1.11 -1.06 -1.31  0.00
 9 1.E -6 *   -1.29 -0.97 -0.93 -0.92 -0.95 -1.00 -1.08 -1.40 -1.84 -2.38 -2.88 -3.05 -3.74 -3.74 -3.05
-1.08 -1.01 -0.99 -1.29  0.00
10 1.E -6 *   -1.29 -0.97 -0.93 -0.92 -0.93 -0.97 -1.00 -1.14 -1.22 -1.57 -1.79 -2.30 -2.04 -2.04 -2.30
-1.00 -0.98 -0.98 -1.29  0.00
11 1.E -6 *   -1.29 -0.97 -0.93 -0.92 -0.92 -0.93 -0.95 -1.05 -1.05 -1.19 -1.31 -1.30 -1.55 -1.55 -1.30
-0.95 -0.94 -0.97 -1.29  0.00
12 1.E -6 *   -1.29 -0.97 -0.94 -0.93 -0.93 -0.93 -0.94 -0.96 -0.98 -0.98 -1.02 -1.10 -1.11 -1.11 -1.10
-0.94 -0.93 -0.97 -1.29  0.00
13 1.E -6 *   -1.30 -1.00 -0.97 -0.97 -0.97 -0.97 -0.97 -0.96 -0.97 -0.99 -1.00 -1.03 -1.03 -1.03 -1.03
-0.97 -0.97 -1.00 -1.30  0.00
14 1.E -6 *   -1.44 -1.30 -1.29 -1.29 -1.29 -1.29 -1.29 -1.29 -1.29 -1.29 -1.29 -1.29 -1.30 -1.30 -1.29
-1.29 -1.29 -1.30 -1.44  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
                END OF QUSD DATA.


                THE ENTIRE SCRN DATA IS AS FOLLOWS


                SCRN INFORMATION FOR SLICE IZOB =   -3

                -->X IS HORIZONTAL, Y IS VERTICAL<--

               -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   -2

                -->X IS HORIZONTAL, Y IS VERTICAL<--

               -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
```

```
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   -1

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    0

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    1

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
```

Micro Shuttle POLAR 1.1 Results

```
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =    2

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                          -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =    3

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                          -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =    4

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                          -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =    5

                    -->X IS HORIZONTAL, Y IS VERTICAL<--
```

```
                -4   -3   -2   -1    0    1    2    3    4    5    6    7    8    9   10
  15   16   17   18   19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.0   -4.00  0.00
-2 1.E  0 *   -   0 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.    -4.00  0.00
-1 1.E  0 *   -   0 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.    -4.00  0.00
 0 1.E  0 *     0 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.00  0.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    6

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                -4   -3   -2   -1    0    1    2    3    4    5    6    7    8    9   10
  15   16   17   18   19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.00  0.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    7

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                -4   -3   -2   -1    0    1    2    3    4    5    6    7    8    9   10
  15   16   17   18   19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.00  0.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    8

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                -4   -3   -2   -1    0    1    2    3    4    5    6    7    8    9   10
  15   16   17   18   19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
```

Micro Shuttle POLAR 1.1 Results

```
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.00  0.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 9

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 10

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.71 -3.71 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 11

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
```

Micro Shuttle POLAR 1.1 Results

```
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   12

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   13

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   14

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
```

Micro Shuttle POLAR 1.1 Results

```
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   15

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.25 -3.25 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.75 -3.75 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   16

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   17

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
```

Micro Shuttle POLAR 1.1 Results

```
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   18

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   19

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   20

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   21
```

Micro Shuttle POLAR 1.1 Results

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	15	16	17	18	19
-4 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-3 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-2 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-1 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
0 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
1 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
2 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
3 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
4 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
5 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
6 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
7 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
8 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
9 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
10 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
11 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
12 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
13 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
14 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
15 1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SCRN INFORMATION FOR SLICE IZOB = 22

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	15	16	17	18	19
-4 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-3 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-2 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-1 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
0 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
1 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
2 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
3 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
4 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
5 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
6 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
7 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
8 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
9 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
10 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
11 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
12 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
13 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
14 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
15 1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SCRN INFORMATION FOR SLICE IZOB = 23

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	15	16	17	18	19
-4 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-3 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-2 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-1 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
0 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
1 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
2 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
3 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
4 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
5 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
6 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
7 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
8 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
9 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
10 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
11 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
12 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
13 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
14 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
15 1.E -1 *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SCRN INFORMATION FOR SLICE IZOB = 24

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	15	16	17	18	19
-4 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-3 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00
-2 1.E 0 *	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	0.00

Micro Shuttle POLAR 1.1 Results

```
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   25

                --->X IS HORIZONTAL, Y IS VERTICAL<---

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *    -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
                          END OF SCRN DATA.

                    Normal E field after PWASON


                    THE ENTIRE ENRM DATA IS AS FOLLOWS


                    INFORMATION FOR ENRM LENGTH =    158

    *          0             1             2             3             4             5
    1 -7.455019E+01 -7.455019E+01 -4.822668E+01 -4.822669E+01 -4.335122E+01 -4.335122E+01 -3.935
    9 -4.890764E+01 -4.890764E+01 -4.296881E+01 -4.296881E+01 -6.431113E+01 -3.280314E+01 -3.280
   17 -5.463781E+01 -2.925671E+01 -5.463780E+01 -2.925671E+01 -3.817895E+01 -3.817895E+01 -4.065
   25 -3.136821E+01 -4.845584E+01 -3.512722E+01 -1.206616E+01 -9.617255E+00 -1.206617E+01 -9.617
   33 -5.325912E+01 -5.145412E+01 -5.102175E+01 -5.102175E+01 -5.145412E+01 -5.325912E+01 -4.703
   41 -3.177620E+01 -4.703281E+01 -3.248380E+01 -1.416597E+01 -1.416597E+01 -3.248380E+01 -4.154
   49 -3.696849E+01 -4.154620E+01 -4.663011E+01 -3.176692E+01 -3.176692E+01 -4.663011E+01 -3.218
   57 -1.650418E+01 -3.218933E+01 -4.221648E+01 -3.693335E+01 -3.693335E+01 -4.221649E+01 -4.129
   65 -3.175963E+01 -4.129335E+01 -2.834995E+01 -2.040248E+01 -2.040248E+01 -2.834995E+01 -4.287
   73 -3.605454E+01 -4.287873E+01 -6.795468E+01 -3.404724E+01 -3.175383E+01 -3.175383E+01 -3.404
   81 -6.622536E+01 -2.230675E+01 -2.311957E+01 -2.311956E+01 -7.230676E+01 -6.622536E+01 -4.301
   89 -3.665390E+01 -4.301776E+01 -4.337928E+01 -3.176219E+01 -3.175071E+01 -3.175071E+01 -3.176
   97 -4.047486E+01 -2.017486E+01 -2.589412E+01 -1.652759E+01 -2.589412E+01 -1.652759E+01 -2.017
  105 -4.986430E+01 -4.950323E+01 -3.524916E+01 -3.476475E+01 -4.950323E+01 -4.986430E+01 -6.930
  113 -3.180010E+01 -3.180528E+01 -3.180529E+01 -3.180010E+01 -3.489085E+01 -6.930497E+01 -6.929
  121 -2.109067E+01 -2.109066E+01 -3.202337E+01 -6.929093E+01 -4.433936E+01 -4.385496E+01 -3.770
  129 -3.866951E+01 -5.376043E+01 -7.596745E+01 -4.634979E+01 -4.055548E+01 -3.762130E+01 -3.762
  137 -4.634979E+01 -7.596744E+01 -7.590348E+01 -4.482757E+01 -2.829825E+01 -2.829825E+01 -4.482
  145 -4.423482E+01 -4.423481E+01 -3.955470E+01 -3.677837E+01 -3.955471E+01 -3.677837E+01 -9.463
  153 -6.574006E+01 -3.140261E+01 -3.140261E+01 -6.574007E+01 -3.488905E+01 -3.488905E+01
                          END OF ENRM DATA.

                    INFORMATION FOR SREV LENGTH =    158

    *          0             1             2             3             4             5
    1 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
    9 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   17 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   25 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   33 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   41 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   49 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   57 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   65 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   73 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   81 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   89 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
   97 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  105 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  113 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  121 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  129 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  137 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  145 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000000E+01 -5.000
  153 -5.282343E+01 -5.267483E+01 -5.267483E+01 -5.282343E+01 -5.178327E+01 -5.178322E+01

***WARNING***openms - MS FILE 11 ALREADY OPEN

 ****** TIMER CALL FROM SCIENC ******

 ****** AT THE TERMINUS ******
ELAPSED:    0 01:20:53.11  CPU:  1:13:43.78  BUFIO: 588  DIRIO: 17986  FAULTS: 715
NEXT CARD PLEASE.
ENDRUN
```

Micro Shuttle POLAR 1.1 Results

```
  ****** TIMER CALL FROM SCIENC ******

  ****** AT THE TERMINUS ******
 ELAPSED:     0 01:20:53.73  CPU: 1:13:44.05  BUFIO: 588  DIRIO: 17998  FAULTS: 715
Exit NTERAK
```

```
                                        +++POLAR 1.1.1 NTERAK+++
asqfil called for lun =  11
FastIO file opened -- lun =    11
asqfil called for lun =   9
FastIO file opened -- lun =     9
asqfil called for lun =  19
FastIO file opened -- lun =    19
asqfil called for lun =  10
FastIO file opened -- lun =    10
asqfil called for lun =  23
asqfil called for lun =  24
```

Micro Shuttle POLAR 1.1 Results

```
                              +++NTERAK INPUT SECTION+++
 NEXT CARD PLEASE.
BATCH
DEFAULT


  DEFAULTS SET
ISTART old
IGICAL old
OPTIN-IGICAL OLD CHANGED TO OLDI
     ACCEPTABLE OPTIONS ARE YES, NO, OLDI (USE OLD DIONS) AND OLGI (USE OLD GIS).
EFLDCOR no
NADD 0
remark INPOT PRE
prechg no
POTVAL -50.
VMACH 0.0 0.0 8.0
MAXITS 2
MAXITC 15
POTCON 5
SQALPH 4.0
QBETA 1.0
remark PDIE 2.0
VLTFIX -0.05
RDRMIN 1.0D-20
   TEMP 0.1
   DENS 1.0E10
   DEN2 4.2E6
   TEMP2 4.3E3
   PONCO 1.4E12
   PALPHA 1.2
   GAUCO 8.8E5
   ENAUT 8.2E3
   DELTA 1.8E3
   PCUTL 50.0
   PCUTH 1000000.0
   RATIH 100.0
NXADNB 4
NXADNT 4
NYADNB 4
NYADNT 4
NZADON 3
NZTAIL 8
   STHPOT -0.1
   DVLIM 500.0
   condv 1 -50.
   DELTAT 0.3
   MAXITT 1
BFIELD ON
IBIAGS(1) 2
IBIAGS(2) 1
   IOGRID NO
   ISPOUT PART
   IOCONC NO
   INPOUT NO
current
 CURPOT DEFAULTED TO -0.4*TEMP,  -4.5000E-02
```

```
                              +++COMPUTATION SPACE+++

          THE OBJECT(S) APPEAR TO LIE BETWEEN Z =        2      14


 THE COMP GRID WILL BE SHIFTED BY ONE UNIT  IN THE X OR Y DIRECTIONS
 EVERY IDELX OR IDELY UNITS  OF Z
                                    IDELX = 200   IDELY = 200


SO THE COMP GRID NOW HAS THE FOLLOWING FEATURES:
  THE  X AND Y GRID GROWTH REQUIRED TO FIT THE OBJECT GRID IN THE DISPLACED COMP GRID IS,
        NXGRTH =   0 NYGRTH =   0 .
CONSIDERING THE ADD-ONS THE NEW COMP GRID DIMENSIONS ARE:
        NX =   22 NY =   18 NZ =   28
```

Micro Shuttle POLAR 1.1 Results

+++SPACECRAFT ENVIRONMENT+++

THE DEBYE LENGTH = 2.3496E-02
THE DIMENSIONLESS DEBYE LENGTH, DEBYDM = 6.5266E-03

PSIM = LN(SCALPH*DEBYE**2/DX**2) = -8.6774E+00 SCALPH = 4.0000E+00

STHPOT = -1.0000E-01
CURPOT= -4.5000E-02 CURPOT/TEMP= -4.5000E-01

BOUNDS ON MATERIAL CROSSOVER POINTS

MATERIAL	(#)	NUMBER OF PTS	VALUES(- TO +)	
FRSI	1	2	-1.0000E+04	-5.0000E-02
HRSI	2	2	-1.0000E+04	-5.0000E-02
LRSI	3	2	-1.0000E+04	-5.0000E-02
LESS	4	2	-1.0000E+04	-5.0000E-02
AQUA	5	2	-1.0000E+04	-5.0000E-02
KAPT	6	2	-1.0000E+04	-5.0000E-02

+++ ENVIROMENTAL PARAMETERS FOR ELECTRONS +++
AMBIENT MAXWELLIAN, TEMP= 1.000E-01 EV, DENSITY= 1.000E+10/M3, FLUX= 5.290?E+14#/M2.S
ENERGETIC MAXWELLIAN, TEMP= 4.300E+03 EV, DENSITY= 4.200E+06/M3, FLUX= 4.607#E+13#/M2.S
POWER LAW ELEC, COEF=, 1.400E+12 ALPHA= 1.2000E+00
CUTOFFS, LOW= 5.000E+01 HIGH 1.0000E+06 EV,
FLUX = 3.201E+12 #/M2.S.
GAUSIAN ELECTRONS, COEF= 8.800E+05 ENAUT= 8.2000E+03 EV, DELTA= 1.800E+03 EV
FLUX= 2.3022E+13 #/M2.S.

+++ ENVIROMENTAL PARAMETERS FOR IONS +++
MAXWELLIAN TEMP FOR ALL COMPONENTS = 1.000E-01EV,
RATIO OF IONS TO HYDROGEN = 1.000E+02, AMU IONS = 16.00
DENSITIES: DENH = 0.990E+0#, DENI = 0.990E+10/M3
FLUXES: FNORMH = 1.223E+11, FNORMI = 3.056E+12#/M2.S.
V THERMAL = 7.7397E+02 M/S.
AND THE OBJECT VELOCITY IS 0.0000E+00, 0.0000E+00, 6.1917E+03, M/S
WARNINGopenms - MS FILE 11 ALREADY OPEN.

+++NOW WE CAN DO SOME $CIENCE+++

DOUBLE POINT POTENTIALS

WORD,	TOP,	BOTTOM
24777	-5.0000E+01	-5.0000E+01
28873	-5.0000E+01	-5.0000E+01
28936	-5.0000E+01	-5.0000E+01
28938	-5.0000E+01	-5.0000E+01
32969	-5.0000E+01	-5.0000E+01
33032	-5.0000E+01	-5.0000E+01
33034	-5.0000E+01	-5.0000E+01
37065	-5.0000E+01	-5.0000E+01
37128	-5.0000E+01	-5.0000E+01
37130	-5.0000E+01	-5.0000E+01
41161	-5.0000E+01	-5.0000E+01
41224	-5.0000E+01	-5.0000E+01
41226	-5.0000E+01	-5.0000E+01
45255	-5.0000E+01	-5.0000E+01
45257	-5.0000E+01	-5.0000E+01
45259	-5.0000E+01	-5.0000E+01
45320	-5.0000E+01	-5.0000E+01
45322	-5.0000E+01	-5.0000E+01
49351	-5.0000E+01	-5.0000E+01
49353	-5.0000E+01	-5.0000E+01
49355	-5.0000E+01	-5.0000E+01
53446	-5.0000E+01	-5.0000E+01
53447	-5.0000E+01	-5.0000E+01
53451	-5.0000E+01	-5.0000E+01
53452	-5.0000E+01	-5.0000E+01
53577	-5.0000E+01	-5.0000E+01
0	-5.0000E+01	-5.0000E+01

Micro Shuttle POLAR 1.1 Results

```
                    +++SHEATH PARTICLE PUSHER (CURREN)+++
                  CALCULATE ION SPACE CHARGE AND ION SURFACE CURRENTS.
                    THIS IS CYCLE    1 OF CURREN
 ***WARNING***openms - MS FILE 10 ALREADY OPEN.


  ****** TIMER CALL FROM SCIENC ******

  ****** BEFORE CURREN ******
 ELAPSED:     0 00:00:13.22  CPU: 0:00:08.27  BUFIO: 20  DIRIO: 136  FAULTS: 366

 DOUBLE POINT POTENTIALS
        WORD,   TOP,    BOTTOM
         24777   -5.0000E+01   -5.0000E+01
         28873   -5.0000E+01   -5.0000E+01
         28936   -5.0000E+01   -5.0000E+01
         28938   -5.0000E+01   -5.0000E+01
         32969   -5.0000E+01   -5.0000E+01
         33032   -5.0000E+01   -5.0000E+01
         33034   -5.0000E+01   -5.0000E+01
         37065   -5.0000E+01   -5.0000E+01
         37128   -5.0000E+01   -5.0000E+01
         37130   -5.0000E+01   -5.0000E+01
         41161   -5.0000E+01   -5.0000E+01
         41224   -5.0000E+01   -5.0000E+01
         41226   -5.0000E+01   -5.0000E+01
         45255   -5.0000E+01   -5.0000E+01
         45257   -5.0000E+01   -5.0000E+01
         45259   -5.0000E+01   -5.0000E+01
         45320   -5.0000E+01   -5.0000E+01
         45322   -5.0000E+01   -5.0000E+01
         49351   -5.0000E+01   -5.0000E+01
         49353   -5.0000E+01   -5.0000E+01
         49355   -5.0000E+01   -5.0000E+01
         53446   -5.0000E+01   -5.0000E+01
         53447   -5.0000E+01   -5.0000E+01
         53451   -5.0000E+01   -5.0000E+01
         53452   -5.0000E+01   -5.0000E+01
         53577   -5.0000E+01   -5.0000E+01
             0   -5.0000E+01   -5.0000E+01
 MRKDB   1    1    1    1    1    1    2    5    8   11   14   19   22   27   27   27   27   27   27   27   27   27
 27   27   27   27   27   27   27   27   27   27   27   27   27   27   27   27   27   27   27   27   27   27
 27   27   27   27   27   27   27   27   27   27
  LEAVING LTYPEP.
 AVMACH =        8.0  einvrs =   3.6788E-01
  this calculation vs/vi =    1.000000
 THETA MAX =        5.1
  sincal: sqratm=   171.3894
                SHEATH BOUNDARY POTENTIAL =  -1.0000E-01
  THE FOCUSING TABLE
 COSWIG, CURION   =     1.00000000E+00      4.6424809E-15
 COSWIG, CURION   =     8.00000018E-01      3.7139219E-15
 COSWIG, CURION   =     6.00000028E-01      2.7853913E-15
 COSWIG, CURION   =     3.99999988E-01      2.6736649E-16
 COSWIG, CURION   =     1.99999995E-01      2.8403569E-02
 COSWIG, CURION   =     0.00000000E+00      4.3968856E-01
 COSWIG, CURION   =    -2.00000005E-01      1.6893792E+00
 COSWIG, CURION   =    -3.99999988E-01      3.2584574E+00
 COSWIG, CURION   =    -6.00000020E-01      4.8494907E+00
 COSWIG, CURION   =    -7.99999995E-01      6.4428855E+00
 COSWIG, CURION   =    -1.00000000E+00      8.0446596E+00
 WIGGLE VTHERM AMACH BNDPOT     3.1416E+00     1.0000E+00     8.0000E+00    -4.5000E-01

  IZ =   -3
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =   -2
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =   -1
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =    0
      12 PARTICLES WERE FOUND    12 WERE KEPT BY DBLCHK
  IZ =    1
     120 PARTICLES WERE FOUND   120 WERE KEPT BY DBLCHK
  IZ =    2
     110 PARTICLES WERE FOUND   104 WERE KEPT BY DBLCHK
  IZ =    3
     142 PARTICLES WERE FOUND   140 WERE KEPT BY DBLCHK
  IZ =    4
     128 PARTICLES WERE FOUND   128 WERE KEPT BY DBLCHK
  IZ =    5
     128 PARTICLES WERE FOUND   128 WERE KEPT BY DBLCHK
  IZ =    6
     128 PARTICLES WERE FOUND   128 WERE KEPT BY DBLCHK
  IZ =    7
     128 PARTICLES WERE FOUND   128 WERE KEPT BY DBLCHK
  IZ =    8
     128 PARTICLES WERE FOUND   128 WERE KEPT BY DBLCHK
  IZ =    9
     144 PARTICLES WERE FOUND   144 WERE KEPT BY DBLCHK
  IZ =   10
     168 PARTICLES WERE FOUND   160 WERE KEPT BY DBLCHK
  IZ =   11
     182 PARTICLES WERE FOUND   164 WERE KEPT BY DBLCHK
  IZ =   12
     186 PARTICLES WERE FOUND   172 WERE KEPT BY DBLCHK
  IZ =   13
     200 PARTICLES WERE FOUND   177 WERE KEPT BY DBLCHK
  IZ =   14
     188 PARTICLES WERE FOUND   164 WERE KEPT BY DBLCHK
  IZ =   15
     188 PARTICLES WERE FOUND   176 WERE KEPT BY DBLCHK
  IZ =   16
     196 PARTICLES WERE FOUND   168 WERE KEPT BY DBLCHK
  IZ =   17
      5? PARTICLES WERE FOUND    42 WERE KEPT BY DBLCHK
  IZ =   18
      28 PARTICLES WERE FOUND    24 WERE KEPT BY DBLCHK
  IZ =   19
       4 PARTICLES WERE FOUND     4 WERE KEPT BY DBLCHK
  IZ =   20
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =   21
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =   22
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =   23
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =   24
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
  IZ =   25
       0 PARTICLES WERE FOUND     0 WERE KEPT BY DBLCHK
                  FOUND   2411 SHEATH PARTICLES.
                    2411 ion particles       0 electron particles
          for ions:  SHEATH AREA=  6.6172E+03 M**2, TOTAL ION CURRENT=  1.2123E-02 AMPS.
          for elec:  SHEATH AREA=  0.0000E+00 M**2, TOTAL ELEC CURRENT=  0.0000E+00 AMPS.
          for total:  SHEATH AREA=  6.6172E+03 M**2, TOTAL CURRENT=  1.2123E-02 AMPS.
 EXIT SINCAL.
 VI THERMAL,TIME UNITS    7.7*0E+02    2.1499E+02
 WC= -1.1145E+00
 PHI,,THETA    3.1416E+00    1.5708E+00
 AMAT -4.3711E-08   0.0000E+00  -1.0000E+00   0.0000E+00   1.0000E+00   0.0000E+00   1.0000E+00   0.0000
 BMAT -1.0000E+00   8.6625E-07   0.0000E+00  -8.6625E-07  -1.0000E+00   0.0000E+00   0.0000E+00   0.0000
 PHEROT  4.3711E-08  -3.7865E-14  -1.0000E+00  -8.6625E-07  -1.0000E+00   0.0000E+00  -1.0000E+00   8.66
 TEST1 SHOULD BE (0,0,1)
 TEST1 -4.3711E-08   8.6625E-07   1.0000E+00
 AMAT -1.0000E+00  -8.6625E-07   0.0000E+00   8.6625E-07  -1.0000E+00   0.0000E+00   0.0000E+00   0.0000
 BMAT -4.3711E-08   0.0000E+00   1.0000E+00   0.0000E+00   1.0000E+00   0.0000E+00  -1.0000E+00   0.0000
 PETROT  4.3711E-08  -8.6625E-07  -1.0000E+00  -3.7865E-14  -1.0000E+00   8.6625E-07  -1.0000E+00   0.00
 TEST2 SHOULD BE BDIR, BDIR=  -1.0000E+00    0.0000E+00    0.0000E+00
 TEST2 -1.0000E+00   8.6625E-07  -4.3711E-08
 EXIT CURREP.

 ***PUSHING RIGHT***
 MOVING IZOB SLICE    -4
 MOVING IZOB SLICE    -2
 MOVING IZOB SLICE    -1
 MOVING IZOB SLICE     0
 MOVING IZOB SLICE     1
 MOVING IZOB SLICE     2
 MOVING IZOB SLICE     3
```

Micro Shuttle POLAR 1.1 Results

```
MOVING IZOB SLICE    4
MOVING IZOB SLICE    5
MOVING IZOB SLICE    6
MOVING IZOB SLICE    7
MOVING IZOB SLICE    8
MOVING IZOB SLICE    9
MOVING IZOB SLICE   10
MOVING IZOB SLICE   11
MOVING IZOB SLICE   12
MOVING IZOB SLICE   13
MOVING IZOB SLICE   14
MOVING IZOB SLICE   15
MOVING IZOB SLICE   16
MOVING IZOB SLICE   17
MOVING IZOB SLICE   18
MOVING IZOB SLICE   19
MOVING IZOB SLICE   20
MOVING IZOB SLICE   21
MOVING IZOB SLICE   22
MOVING IZOB SLICE   23
MOVING IZOB SLICE   24
MOVING IZOB SLICE   25
+++PUSHING LEFT+++
MOVING IZOB SLICE   25
MOVING IZOB SLICE   24
MOVING IZOB SLICE   23
MOVING IZOB SLICE   22
MOVING IZOB SLICE   21
MOVING IZOB SLICE   20
MOVING IZOB SLICE   19
MOVING IZOB SLICE   18
MOVING IZOB SLICE   17
MOVING IZOB SLICE   16
MOVING IZOB SLICE   15
MOVING IZOB SLICE   14
MOVING IZOB SLICE   13
MOVING IZOB SLICE   12
MOVING IZOB SLICE   11
MOVING IZOB SLICE   10
MOVING IZOB SLICE    9
MOVING IZOB SLICE    8
MOVING IZOB SLICE    7
MOVING IZOB SLICE    6
MOVING IZOB SLICE    5
MOVING IZOB SLICE    4
MOVING IZOB SLICE    3
MOVING IZOB SLICE    2
MOVING IZOB SLICE    1
MOVING IZOB SLICE    0
MOVING IZOB SLICE   -1
MOVING IZOB SLICE   -2
MOVING IZOB SLICE   -3
+++PUSHING RIGHT+++
MOVING IZOB SLICE   -3
MOVING IZOB SLICE   -2
MOVING IZOB SLICE   -1
MOVING IZOB SLICE    0
MOVING IZOB SLICE    1
MOVING IZOB SLICE    2
MOVING IZOB SLICE    3
MOVING IZOB SLICE    4
MOVING IZOB SLICE    5
MOVING IZOB SLICE    6
MOVING IZOB SLICE    7
MOVING IZOB SLICE    8
MOVING IZOB SLICE    9
MOVING IZOB SLICE   10
MOVING IZOB SLICE   11
MOVING IZOB SLICE   12
MOVING IZOB SLICE   13
MOVING IZOB SLICE   14
MOVING IZOB SLICE   15
MOVING IZOB SLICE   16
MOVING IZOB SLICE   17
MOVING IZOB SLICE   18
MOVING IZOB SLICE   19
MOVING IZOB SLICE   20
MOVING IZOB SLICE   21
MOVING IZOB SLICE   22
MOVING IZOB SLICE   23
MOVING IZOB SLICE   24
MOVING IZOB SLICE   25
+++PUSHING LEFT+++
MOVING IZOB SLICE   25
MOVING IZOB SLICE   24
MOVING IZOB SLICE   23
MOVING IZOB SLICE   22
MOVING IZOB SLICE   21
MOVING IZOB SLICE   20
MOVING IZOB SLICE   19
MOVING IZOB SLICE   18
MOVING IZOB SLICE   17
MOVING IZOB SLICE   16
MOVING IZOB SLICE   15
MOVING IZOB SLICE   14
MOVING IZOB SLICE   13
MOVING IZOB SLICE   12
MOVING IZOB SLICE   11
MOVING IZOB SLICE   10
MOVING IZOB SLICE    9
MOVING IZOB SLICE    8
MOVING IZOB SLICE    7
MOVING IZOB SLICE    6
MOVING IZOB SLICE    5
MOVING IZOB SLICE    4
MOVING IZOB SLICE    3
MOVING IZOB SLICE    2
MOVING IZOB SLICE    1
MOVING IZOB SLICE    0
MOVING IZOB SLICE   -1
MOVING IZOB SLICE   -2
MOVING IZOB SLICE   -3
+++PUSHING RIGHT+++
MOVING IZOB SLICE   -3
MOVING IZOB SLICE   -2
MOVING IZOB SLICE   -1
MOVING IZOB SLICE    0
MOVING IZOB SLICE    1
MOVING IZOB SLICE    2
MOVING IZOB SLICE    3
MOVING IZOB SLICE    4
MOVING IZOB SLICE    5
MOVING IZOB SLICE    6
MOVING IZOB SLICE    7
MOVING IZOB SLICE    8
MOVING IZOB SLICE    9
MOVING IZOB SLICE   10
MOVING IZOB SLICE   11
MOVING IZOB SLICE   12
MOVING IZOB SLICE   13
MOVING IZOB SLICE   14
MOVING IZOB SLICE   15
MOVING IZOB SLICE   16
MOVING IZOB SLICE   17
MOVING IZOB SLICE   18
MOVING IZOB SLICE   19
MOVING IZOB SLICE   20
MOVING IZOB SLICE   21
MOVING IZOB SLICE   22
MOVING IZOB SLICE   23
MOVING IZOB SLICE   24
MOVING IZOB SLICE   25
+++PUSHING LEFT+++
MOVING IZOB SLICE   25
MOVING IZOB SLICE   24
MOVING IZOB SLICE   23
MOVING IZOB SLICE   22
MOVING IZOB SLICE   21
MOVING IZOB SLICE   20
MOVING IZOB SLICE   19
```

Micro Shuttle POLAR 1.1 Results

```
 MOVING IZOB SLICE   18
 MOVING IZOB SLICE   17
 MOVING IZOB SLICE   16
 MOVING IZOB SLICE   15
 MOVING IZOB SLICE   14
 MOVING IZOB SLICE   13
 MOVING IZOB SLICE   12
 MOVING IZOB SLICE   11
 MOVING IZOB SLICE   10
 MOVING IZOB SLICE    9
 MOVING IZOB SLICE    8
 MOVING IZOB SLICE    7
 MOVING IZOB SLICE    6
 MOVING IZOB SLICE    5
 MOVING IZOB SLICE    4
 MOVING IZOB SLICE    3
 MOVING IZOB SLICE    2
 MOVING IZOB SLICE    1
 MOVING IZOB SLICE    0
 MOVING IZOB SLICE   -1
 MOVING IZOB SLICE   -2
 MOVING IZOB SLICE   -3

***WARNING***CURREN-ACTIVE PARTICLES PERSIST AFTER    3 CYCLES.       2 TRAPPED ORBITS PROBABLE.


PARTICLES (FROM SHEATH= 2411) OUT= 1025 DEAD= 1384 LOST=    0
    2 PARTICLES WERE STILL MOVING, POSSIBLY IN TRAPPED ORBITS.
Out of sheath current (electron)   0.0000E+00 amps, (ions)   1.4934E-03 amps
Current to object (electron)   0.0000E+00 amps, (ions)   1.0630E-02 amps
Lost currents (electron)   0.0000E+00 amps, (ions)   0.0000E+00 amps
***WARNING***openms - MS FILE 10 ALREADY OPEN.


  ****** TIMER CALL FROM SCIENC ******

  ****** BEFORE IONCUR ******
 ELAPSED:    0 00:10:17.11  CPU: 0:08:46.05  BUFIO: 42  DIRIO: 5280  FAULTS: 496

         PUSHED ION CURRENT TO OBJECT=  1.0630E-02 AMPS
         PUSHED ELECTRON CURRENT TO OBJECT=  0.0000E+00 AMPS
         TOTAL PUSHED CURRENT TO OBJECT=  1.0630E-02 AMPS
***WARNING***openms - MS FILE  9 ALREADY OPEN.
***BUFSET WARNING SAFI ALREADY IN CRUE, WITH  1 SLICES DECLARED. DATA IGNORED.


  ****** TIMER CALL FROM SCIENC ******

  ****** BEFORE IONGEN ******
 ELAPSED:    0 00:10:28.53  CPU: 0:08:53.47  BUFIO: 42  DIRIO: 5556  FAULTS: 496
***WARNING***openms - MS FILE 11 ALREADY OPEN
***WARNING***openms - MS FILE 10 ALREADY OPEN


  ****** TIMER CALL FROM SCIENC ******

  ****** AT THE TERMINUS ******
 ELAPSED:    0 00:10:54.56  CPU: 0:09:04.84  BUFIO: 42  DIRIO: 6204  FAULTS: 496
 NEXT CARD READ:
 CHARGE
```

```
                    +++CALCULATE SURFACE POTENTIALS (CHARGE)+++
                    THIS IS CYCLE   1 OF CHARGE


  ****** TIMER CALL FROM SCIENC ******

  ****** BEFORE CHARGE ******
 ELAPSED:    0 00:10:55.47  CPU: 0:09:08.73  BUFIO: 56  DIRIO: 6218  FAULTS: 496
 ENTERING CHARGE SECTION, **WILL CHARGE IMPLICITLY.
         GROUND CONDUCTOR VOLTAGE IS  -5.0000E+01
         CHARGE WILL always reset to ANYFIX=NO   AND ALLFIX=YES
         charge is resetting the jfix array to 0

                    CONDUCTOR Enormal*dx AND BEAM INFO (MAKCNC)
 ICOND  NSFCND      ave Edx      BemOn       IdBeam      VBeam       BemCur
    1      6      -1.5844E+02      0           0       0.0000E+00  0.0000E+00
 ****CYCLE    1 START****(0.000000E+00 SECS ELAPSED, 3.000000E-01 NEW DELTAT.)

                    CONDUCTOR CURRENT INFORMATION (MAKJ1)
 ICOND  AVE V       Iraw        Ihigh       Ibeam       Isec        HOPPING     PHOTO
    1 -5.2427E+01 -4.7309E-04 -8.5312E-04  0.0000E+00  3.8003E-04  0.0000E+00  0.0000E+00

                    INFORMATION FOR JTSR LENGTH =    158

     *        0           1           2           3           4           5
       1  4.814322E-05  4.814317E-05  1.222754E-04  1.222753E-04  5.815225E-05  5.815220E-05  4.450
       9  4.978811E-05  4.978795E-05  6.279744E-05  6.279738E-05  1.953493E-06 -3.673410E-05 -3.673
      17 -1.036635E-06 -1.197739E-06 -1.197848E-06 -1.199711E-06 -2.499110E-05 -2.499105E-05 -2.702
      25 -8.615069E-05 -2.702757E-05 -4.994456E-05 -4.088869E-05 -1.117498E-04 -4.088869E-05 -1.117
      33 -9.125048E-05 -6.022231E-05 -4.577359E-05 -4.577358E-05 -6.022242E-05 -9.125048E-05 -5.867
      41 -9.230556E-05 -5.867064E-05 -6.005637E-05 -1.415695E-04 -1.415695E-04 -6.005624E-05 -9.991
      49 -7.734643E-05 -9.991960E-05 -6.845238E-05 -8.555008E-05 -8.555014E-05 -6.845241E-05 -8.063
      57 -1.376122E-04 -8.063819E-05 -8.969175E-05 -9.404571E-05 -9.404581E-05 -8.969172E-05 -7.042
      65 -9.262565E-05 -7.042606E-05 -1.102239E-04 -1.470220E-04 -1.470221E-04 -1.102240E-04 -1.048
      73 -1.175959E-04 -1.048365E-04 -6.755620E-05 -1.009230E-04 -1.053011E-04 -1.053011E-04 -1.009
      81 -6.863967E-05 -1.186382E-04 -1.614198E-04 -1.614197E-04 -1.186380E-04 -6.863949E-05 -1.398
      89 -1.194947E-04 -1.398631E-04 -7.856047E-05 -9.879602E-05 -1.131289E-04 -1.131289E-04 -9.879
      97 -7.409322E-05 -1.269645E-04 -5.455186E-05 -5.455186E-05 -1.562813E-04 -1.562812E-04 -1.269
     105 -1.388335E-04 -1.394203E-04 -5.947763E-05 -5.947763E-05 -1.394200E-04 -1.388334E-04  3.485
     113 -8.302233E-05 -1.152289E-04 -1.152289E-04 -8.302250E-05 -5.484845E-05  3.486006E-05 -3.000
     121 -1.320532E-04 -1.320534E-04 -6.452989E-05 -3.000151E-05 -9.904679E-05 -9.995125E-05 -1.023
     129 -1.024374E-04 -9.554025E-05 -1.071558E-05 -5.099671E-05 -8.099975E-05 -1.094532E-04 -1.094
     137 -5.099677E-05 -1.071557E-05 -4.679265E-05 -7.122710E-05 -1.339896E-04 -1.339897E-04 -7.122
     145 -1.022001E-04 -1.021999E-04 -9.850497E-05 -1.008612E-04 -9.850481E-05 -7.099115E-05 -1.158
     153 -4.854700E-05 -9.611993E-05 -9.611990E-05 -4.854694E-05 -9.187926E-05 -9.187916E-05

***********anyfix surfaces is NO
 THIS IS THE EXPLICIT STEP OF SURCHG.
         MAKDJ1- calculating jprm(step 1) using dvlim =  5.0000E+02 xdvfac =  2.0000E+00

                    INFORMATION FOR JPRM LENGTH =    158

     *        0           1           2           3           4           5
       1 -4.814322E-08 -4.814317E-08 -1.222754E-07 -1.222753E-07 -5.815225E-08 -5.815220E-08 -4.450
       9 -4.978811E-08 -4.978795E-08 -6.279744E-08 -6.279738E-08 -1.953493E-09 -3.673410E-08 -3.673
      17 -1.036635E-09 -1.197739E-09 -1.036628E-09 -1.197848E-09 -2.499111E-08 -2.499105E-08 -2.702
      25 -8.615069E-08 -2.702757E-08 -4.994456E-08 -4.088869E-08 -1.117498E-07 -4.088869E-08 -1.117
      33 -9.125048E-08 -6.022231E-08 -4.577359E-08 -4.577358E-08 -6.022242E-08 -9.125048E-08 -5.867
      41 -9.230556E-08 -5.867064E-08 -6.005637E-08 -1.415695E-07 -1.415695E-07 -6.005624E-08 -9.991
      49 -7.734643E-08 -9.991960E-08 -6.845238E-08 -8.555008E-08 -8.555014E-08 -6.845241E-08 -8.063
      57 -1.376122E-07 -8.063819E-08 -8.969175E-08 -9.404571E-08 -9.404581E-08 -8.969172E-08 -7.042
      65 -9.262565E-08 -7.042606E-08 -1.102239E-07 -1.470220E-07 -1.470221E-07 -1.102240E-07 -1.048
      73 -1.175959E-07 -1.048365E-07 -6.755620E-08 -1.009230E-07 -1.053011E-07 -1.053011E-07 -1.009
      81 -6.863967E-08 -1.186382E-07 -1.614198E-07 -1.614197E-07 -1.186380E-07 -6.863949E-08 -1.398
      89 -1.194947E-07 -1.398631E-07 -7.856047E-08 -9.879602E-08 -1.131289E-07 -1.131289E-07 -9.879
      97 -7.409322E-08 -1.269645E-07 -5.455186E-08 -5.455186E-08 -1.562813E-07 -1.562812E-07 -1.269
     105 -1.388335E-07 -1.394203E-07 -5.947763E-08 -5.947763E-08 -1.394200E-07 -1.388334E-07  3.485
     113 -8.302233E-08 -1.152289E-07 -1.152289E-07 -8.302250E-08 -5.484845E-08  3.486006E-08 -3.000
     121 -1.320532E-07 -1.320534E-07 -6.452989E-08 -3.000151E-08 -9.904679E-08 -9.995125E-08 -1.023
     129 -1.024374E-07 -9.554025E-08 -1.071558E-08 -5.099671E-08 -8.099975E-08 -1.094532E-07 -1.094
     137 -5.099677E-08 -1.071557E-08 -4.679265E-08 -7.122710E-08 -1.339896E-07 -1.339897E-07 -7.122
     145 -1.022001E-07 -1.021999E-07 -9.850497E-08 -1.008612E-07 -9.850481E-08 -7.099115E-08 -1.158
     153 -4.854700E-08 -9.611993E-08 -9.611990E-08 -4.854694E-08 -9.187926E-08 -9.187916E-08

***BUFSET WARNING LIST ALREADY IN CRUE, WITH    SLICES DECLARED. DATA IGNORED.
```

Micro Shuttle POLAR 1.1 Results

***BUFSET WARNING MRKR ALREADY IN CBUF, WITH 1 SLICES DECLARED. DATA IGNORED.
FastIO file opened -- lun = 23
FastIO file opened -- lun = 24

ICCG --- RDOTR/RDOTR1 = 2.18E-30/ 9.75E+00

INFORMATION FOR TSRV LENGTH = 158

	0	1	2	3	4	5	
1	-9.080250E+02	-9.080250E+02	-9.085067E+02	-9.085067E+02	-9.094492E+02	-9.094492E+02	-9.105
9	-9.102987E+02	-9.102987E+02	-9.105623E+02	-9.105623E+02	-9.125477E+02	-9.128721E+02	-9.128
17	-9.127469E+02	-9.127444E+02	-9.127469E+02	-9.127444E+02	-9.128033E+02	-9.128033E+02	-9.128
25	-9.130503E+02	-9.128371E+02	-9.128670E+02	-9.130345E+02	-9.130247E+02	-9.130345E+02	-9.130
33	-9.129724E+02	-9.128932E+02	-9.130698E+02	-9.130698E+02	-9.128932E+02	-9.129724E+02	-9.129
41	-9.130724E+02	-9.129513E+02	-9.128928E+02	-9.131005E+02	-9.131005E+02	-9.128928E+02	-9.129
49	-9.129370E+02	-9.129945E+02	-9.129866E+02	-9.130482E+02	-9.130482E+02	-9.129866E+02	-9.129
57	-9.130905E+02	-9.129454E+02	-9.129684E+02	-9.129796E+02	-9.129796E+02	-9.129684E+02	-9.129
65	-9.130736E+02	-9.129937E+02	-9.130208E+02	-9.131144E+02	-9.131144E+02	-9.130208E+02	-9.130
73	-9.130396E+02	-9.130070E+02	-9.129833E+02	-9.131035E+02	-9.131193E+02	-9.131193E+02	-9.131
81	-9.129872E+02	-9.130422E+02	-9.131510E+02	-9.131510E+02	-9.130422E+02	-9.129872E+02	-9.130
89	-9.130444E+02	-9.130962E+02	-9.130230E+02	-9.130958E+02	-9.131474E+02	-9.131474E+02	-9.130
97	-9.130069E+02	-9.130634E+02	-9.131329E+02	-9.131379E+02	-9.131329E+02	-9.131379E+02	-9.131
105	-9.130936E+02	-9.130951E+02	-9.129542E+02	-9.129542E+02	-9.130951E+02	-9.130936E+02	-4.999
113	-9.130391E+02	-9.131549E+02	-9.131549E+02	-9.130391E+02	-9.129375E+02	-9.110298E+02	-9.128
121	-9.130764E+02	-9.130764E+02	-9.129724E+02	-9.128478E+02	-9.130967E+02	-9.131000E+02	-9.131
129	-9.131089E+02	-9.130841E+02	-9.127781E+02	-9.129236E+02	-9.130317E+02	-9.131342E+02	-9.131
137	-9.129236E+02	-9.127781E+02	-9.129084E+02	-9.129966E+02	-9.130812E+02	-9.130812E+02	-9.129
145	-9.131081E+02	-9.131081E+02	-9.130948E+02	-9.131033E+02	-9.130948E+02	-9.129957E+02	-9.131
153	-9.155652E+02	-9.154166E+02	-9.154166E+02	-9.155652E+02	-9.145250E+02	-9.145250E+02	

CONDV= -9.1274E+02
THIS IS THE IMPLICIT STEP OF SURCHG.
AFTER DVLIM ON THE VOLTAGES:

INFORMATION FOR TSRV LENGTH = 158

	0	1	2	3	4	5	
1	-4.999924E-02	-4.999924E-02	-4.999924E-02	-4.999924E-02	-4.999924E-02	-4.999924E-02	-4.999
9	-4.999924E-02	-4.999924E-02	-4.999924E-02	-4.999924E-02	-4.999924E-02	-9.128721E+02	-9.128
17	-9.127469E+02	-9.127444E+02	-9.127469E+02	-9.127444E+02	-9.128033E+02	-9.128033E+02	-9.128
25	-9.130503E+02	-9.128371E+02	-9.128670E+02	-9.130345E+02	-9.130247E+02	-9.130345E+02	-9.130
33	-9.129724E+02	-9.128932E+02	-9.130698E+02	-9.130698E+02	-9.128932E+02	-9.129724E+02	-9.129
41	-9.130724E+02	-9.129513E+02	-9.128928E+02	-9.131005E+02	-9.131005E+02	-9.128928E+02	-9.129
49	-9.129370E+02	-9.129945E+02	-9.129866E+02	-9.130482E+02	-9.130482E+02	-9.129866E+02	-9.129
57	-9.130905E+02	-9.129454E+02	-9.129684E+02	-9.129796E+02	-9.129796E+02	-9.129684E+02	-9.129
65	-9.130736E+02	-9.129937E+02	-9.130208E+02	-9.131144E+02	-9.131144E+02	-9.130208E+02	-9.130
73	-9.130396E+02	-9.130070E+02	-9.129833E+02	-9.131035E+02	-9.131193E+02	-9.131193E+02	-9.131
81	-9.129872E+02	-9.130422E+02	-9.131510E+02	-9.131510E+02	-9.130422E+02	-9.129872E+02	-9.130
89	-9.130444E+02	-9.130962E+02	-9.130230E+02	-9.130958E+02	-9.131474E+02	-9.131474E+02	-9.130
97	-9.130069E+02	-9.130634E+02	-9.131329E+02	-9.131379E+02	-9.131329E+02	-9.131379E+02	-9.131
105	-9.130936E+02	-9.130951E+02	-9.129542E+02	-9.129542E+02	-9.130951E+02	-9.130936E+02	-4.999
113	-9.130391E+02	-9.131549E+02	-9.131549E+02	-9.130391E+02	-9.129375E+02	-4.999924E-02	-9.128
121	-9.130764E+02	-9.130764E+02	-9.129724E+02	-9.128478E+02	-9.130967E+02	-9.131000E+02	-9.131
129	-9.131089E+02	-9.130841E+02	-9.127781E+02	-9.129236E+02	-9.130317E+02	-9.131342E+02	-9.131
137	-9.129236E+02	-9.127781E+02	-9.129084E+02	-9.129966E+02	-9.130812E+02	-9.130812E+02	-9.129
145	-9.131081E+02	-9.131081E+02	-9.130948E+02	-9.131033E+02	-9.130948E+02	-9.129957E+02	-9.131
153	-9.155652E+02	-9.154166E+02	-9.154166E+02	-9.155652E+02	-9.145250E+02	-9.145250E+02	

MAKDJ- CONDV NOT NEEDED HERE
***BUFSET WARNING JTSR ALREADY IN CBUF, WITH 1 SLICES DECLARED. DATA IGNORED.

CONDUCTOR CURRENT INFORMATION (MAKJ2)

ICOND	AVE V	Iraw	Ihigh	Ibeam	Isec	HOPPING	PHOTO
1	-5.7427E+01	0.0000E+00	-3.7867E-04	0.0000E+00	3.7867E-04	0.0000E+00	0.0000E+00

INFORMATION FOR JTSR LENGTH = 158

	0	1	2	3	4	5	
1	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000
9	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000
17	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000
25	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000
33	0.000000E+00	0.000000E+00	-5.394759E-07	-5.394468E-07	0.000000E+00	0.000000E+00	0.000
41	-3.622146E-06	0.000000E+00	0.000000E+00	-4.211263E-05	-4.211269E-05	0.000000E+00	0.000
49	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000
57	-2.884140E-05	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000
65	-4.695590E-06	0.000000E+00	0.000000E+00	-6.039839E-05	-6.039882E-05	0.000000E+00	0.000
73	0.000000E+00	0.000000E+00	0.000000E+00	-3.252127E-05	-4.720417E-05	-4.720422E-05	-3.252
81	0.000000E+00	0.000000E+00	-1.086840E-04	-1.086859E-04	0.000000E+00	0.000000E+00	-3.639
89	0.000000E+00	-3.639000E-05	0.000000E+00	-2.538830E-05	-7.345730E-05	-7.345718E-05	-2.538
97	0.000000E+00	0.000000E+00	-2.997871E-05	-9.145206E-05	-2.997871E-05	-9.145193E-05	0.000
105	-3.293708E-05	-3.490478E-05	0.000000E+00	0.000000E+00	-3.490402E-05	-3.293664E-05	0.000
113	0.000000E+00	-8.050070E-05	-8.050067E-05	0.000000E+00	0.000000E+00	0.000000E+00	0.000
121	-1.019888E-05	-1.019963E-05	0.000000E+00	0.000000F+00	-2.622927E-05	-2.926251E-05	-3.730
129	-3.760030E-05	-1.446978E-05	0.000000E+00	0.000000E+00	0.000000E+00	-6.112953E-05	-6.112
137	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	-1.669276E-05	-1.669303E-05	0.000
145	-3.680424E-05	-3.680368E-05	-2.441221E-05	-3.231423E-05	-2.441168E-05	0.000000E+00	-8.253
153	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	

MAKDJ - AFTER MAKJ2, TSRV BECAME...

INFORMATION FOR TSRV LENGTH = 158

	0	1	2	3	4	5	
1	-3.432965E+01	-3.432965E+01	-3.440636E+01	-3.440637E+01	-3.577455E+01	-3.577455E+01	-3.797
9	-3.750090E+01	-3.750091E+01	-3.798798E+01	-3.798798E+01	-4.411142E+01	-2.227970E+02	-2.227
17	-5.697845E+01	-5.462807E+01	-5.697873E+01	-5.462838E+01	-1.184221E+02	-1.184219E+02	-1.647
25	-8.102203E+02	-1.647427E+02	-2.135768E+02	-7.294056E+02	-6.820225E+02	-7.294055E+02	-6.820
33	-4.744825E+02	-2.638623E+02	-9.130698E+02	-9.130698E+02	-2.638626E+02	-4.744823E+02	-4.078
41	-9.130724E+02	-4.078737E+02	-2.629872E+02	-9.131005E+02	-9.131005E+02	-2.629866E+02	-5.542
49	-3.673406E+02	-5.542792E+02	-5.243625E+02	-7.986986E+02	-7.987006E+02	-5.243627E+02	-3.906
57	-9.130905E+02	-3.906121E+02	-4.612604E+02	-4.990287E+02	-4.990294E+02	-4.612603E+02	-5.511
65	-9.130736E+02	-5.511200E+02	-6.642204E+02	-9.131144E+02	-9.131144E+02	-6.642230E+02	-6.065
73	-7.540583E+02	-6.045547E+02	-5.125970E+02	-9.131035E+02	-9.131193E+02	-9.131193E+02	-9.131
81	-5.268512E+02	-7.675551E+02	-9.131510E+02	-9.131510E+02	-7.675529E+02	-5.268495E+02	-9.130
89	-7.787980E+02	-9.130962E+02	-6.744101E+02	-9.130958E+02	-9.131474E+02	-9.131474E+02	-9.130
97	-6.039958E+02	-8.827162E+02	-9.131329E+02	-9.131379E+02	-9.131329E+02	-9.131379E+02	-8.827
105	-9.130936E+02	-9.130951E+02	-4.165446E+02	-4.165446E+02	-9.130951E+02	-9.130936E+02	-3.895
113	-7.516899E+02	-9.131549E+02	-9.131549E+02	-7.516937E+02	-3.688680E+02	-3.895251E+01	-1.813
121	-9.130764E+02	-9.130764E+02	-4.745605E+02	-1.813316E+02	-9.130967E+02	-9.131000E+02	-9.131
129	-9.131089E+02	-9.130841E+02	-8.890304E+01	-3.327906E+02	-7.157714E+02	-9.131342E+02	-9.131
137	-3.327910E+02	-8.890188E+01	-2.967674E+02	-5.623170E+02	-9.130812E+02	-9.130812E+02	-5.623
145	-9.131081E+02	-9.131081E+02	-9.130948E+02	-9.131033E+02	-9.130948E+02	-5.589983E+02	-9.131
153	-8.659081E+02	-8.375928E+02	-8.375919E+02	-8.659049E+02	-7.276241E+02	-7.276223E+02	

INFORMATION FOR JPRM LENGTH = 158

	0	1	2	3	4	5	
1	-3.072249E-06	-3.072246E-06	-7.838159E-06	-7.838154E-06	-4.087902E-06	-4.087899E-06	-3.702
9	-3.983336E-06	-3.983327E-06	-5.227885E-06	-5.227880E-06	-3.317428E-07	-2.125853E-07	-2.125
17	-1.485479E-07	-2.587988E-07	-1.485484E-07	-2.588053E-07	-3.652492E-07	-3.652491E-07	-2.355
25	-1.133233E-07	-2.355493E-07	-3.053278E-07	-6.018309E-08	-1.760130E-07	-6.018304E-08	-1.768
33	-2.149688E-07	-2.815939E-07	-5.241073E-08	-5.241075E-08	-2.815940E-07	-2.149688E-07	-1.639
41	-1.027531E-07	-1.639423E-07	-2.819717E-07	-1.415695E-07	-1.415695E-07	-2.819719E-07	-1.981
49	-2.437336E-07	-1.981434E-07	-1.443039E-07	-1.142650E-07	-1.142648E-07	-1.443040E-07	-2.367
57	-1.376122E-07	-2.367450E-07	-2.180899E-07	-2.094426E-07	-2.094424E-07	-2.180899E-07	-1.405
65	-1.018801E-07	-1.405373E-07	-1.794533E-07	-1.470220E-07	-1.470221E-07	-1.794528E-07	-1.890
73	-1.670258E-07	-1.890462E-07	-1.460368E-07	-1.009230E-07	-1.053011E-07	-1.053011E-07	-1.009
81	-1.439436E-07	-1.653367E-07	-1.614198E-07	-1.614197E-07	-1.653369E-07	-1.439437E-07	-1.398
89	-1.639613E-07	-1.398631E-07	-1.258155E-07	-9.879602E-08	-1.131289E-07	-1.131289E-07	-9.879
97	-1.337433E-07	-1.524703E-07	-5.455186E-08	-1.562813E-07	-5.455186E-08	-1.562812E-07	-1.524
105	-1.388335E-07	-1.394203E-07	-1.622657E-07	-1.622657E-07	-1.394200E-07	-1.388334E-07	-3.155
113	-1.183177E-07	-1.152289E-07	-1.152289E-07	-1.183173E-07	-1.720099E-07	-3.155473E-06	-2.284
121	-1.411860E-07	-1.411854E-07	-1.519922E-07	-2.284410E-07	-9.904679E-08	-9.995125E-08	-1.023
129	-1.024374E-07	-9.554025E-08	-2.754509E-07	-1.803338E-07	-1.216630E-07	-1.094532E-07	-1.094
137	-1.803338E-07	-2.754513E-07	-1.896225E-07	-1.390248E-07	-1.359048E-07	-1.359046E-07	-1.390
145	-1.022001E-07	-1.021999E-07	-9.850497E-08	-1.008612E-07	-9.850481E-08	-1.394723E-07	-1.158
153	-4.854700E-08	-9.611993E-08	-9.611990E-08	-4.854694E-08	-9.187926E-08	-9.187916E-08	

***BUFSET WARNING LIST ALREADY IN CBUF, WITH 1 SLICES DECLARED. DATA IGNORED.
***BUFSET WARNING MRKR ALREADY IN CBUF, WITH 1 SLICES DECLARED. DATA IGNORED.

ICCG --- RDOTR/RDOTR1 = 1.52E-28/ 7.62E-01

INFORMATION FOR TSRV LENGTH = 158

	0	1	2	3	4	5	
1	-1.034992E+02	-1.034992E+02	-1.044665E+02	-1.044665E+02	-1.059678E+02	-1.059678E+02	-1.078
9	-1.073655E+02	-1.073655E+02	-1.078896E+02	-1.078896E+02	-1.134860E+02	-1.153012E+02	-1.153

Micro Shuttle POLAR 1.1 Results

```
  17 -1.142506E+02  -1.142296E+02  -1.142506E+02  -1.142296E+02  -1.147242E+02  -1.147242E+02  -1.150
  25 -1.167698E+02  -1.150077E+02  -1.152584E+02  -1.166426E+02  -1.165620E+02  -1.166426E+02  -1.165
  33 -1.161344E+02  -1.154776E+02  -1.169265E+02  -1.169265E+02  -1.154776E+02  -1.161344E+02  -1.159
  41 -1.169501E+02  -1.159601E+02  -1.154740E+02  -1.171598E+02  -1.171598E+02  -1.154740E+02  -1.163
  49 -1.158412E+02  -1.163160E+02  -1.162509E+02  -1.167524E+02  -1.167524E+02  -1.162509E+02  -1.159
  57 -1.170912E+02  -1.159108E+02  -1.161016E+02  -1.161931E+02  -1.161931E+02  -1.161016E+02  -1.163
  65 -1.169601E+02  -1.163093E+02  -1.165304E+02  -1.172543E+02  -1.172543E+02  -1.165304E+02  -1.164
  73 -1.166827E+02  -1.164185E+02  -1.162244E+02  -1.171798E+02  -1.172871E+02  -1.172871E+02  -1.171
  81 -1.162564E+02  -1.167041E+02  -1.175038E+02  -1.175038E+02  -1.167041E+02  -1.162564E+02  -1.171
  89 -1.167217E+02  -1.171302E+02  -1.165486E+02  -1.171277E+02  -1.174790E+02  -1.174790E+02  -1.171
  97 -1.164174E+02  -1.168748E+02  -1.173803E+02  -1.174147E+02  -1.173803E+02  -1.174147E+02  -1.168
 105 -1.171123E+02  -1.171225E+02  -1.159842E+02  -1.159842E+02  -1.171225E+02  -1.171123E+02  -1.088
 113 -1.166789E+02  -1.175304E+02  -1.175304E+02  -1.166789E+02  -1.158459E+02  -1.088840E+02  -1.150
 121 -1.169834E+02  -1.169834E+02  -1.161346E+02  -1.150977E+02  -1.171338E+02  -1.171560E+02  -1.172
 129 -1.172169E+02  -1.170478E+02  -1.145131E+02  -1.157305E+02  -1.166199E+02  -1.173889E+02  -1.173
 137 -1.157305E+02  -1.145131E+02  -1.156042E+02  -1.163329E+02  -1.170259E+02  -1.170260E+02  -1.163
 145 -1.172111E+02  -1.172111E+02  -1.171205E+02  -1.171783E+02  -1.171205E+02  -1.163260E+02  -1.175
 153 -1.175226E+02  -1.173740E+02  -1.173740E+02  -1.175226E+02  -1.164824E+02  -1.164824E+02

CONDV=   -1.1470E+02

                INFORMATION FOR SREV LENGTH =    158

    *       0             1             2             3             4             5
   1 -1.034992E+02  -1.034992E+02  -1.044665E+02  -1.044665E+02  -1.059678E+02  -1.059678E+02  -1.078
   9 -1.073655E+02  -1.073655E+02  -1.078896E+02  -1.078896E+02  -1.134860E+02  -1.153012E+02  -1.153
  17 -1.142506E+02  -1.142296E+02  -1.142506E+02  -1.142296E+02  -1.147242E+02  -1.147242E+02  -1.150
  25 -1.167698E+02  -1.150077E+02  -1.152584E+02  -1.166426E+02  -1.165620E+02  -1.166426E+02  -1.165
  33 -1.161344E+02  -1.154776E+02  -1.169265E+02  -1.169265E+02  -1.154776E+02  -1.161344E+02  -1.159
  41 -1.169501E+02  -1.159601E+02  -1.154740E+02  -1.171598E+02  -1.171598E+02  -1.154740E+02  -1.163
  49 -1.158412E+02  -1.163160E+02  -1.162509E+02  -1.167524E+02  -1.167524E+02  -1.162509E+02  -1.159
  57 -1.170912E+02  -1.159108E+02  -1.161016E+02  -1.161931E+02  -1.161931E+02  -1.161016E+02  -1.163
  65 -1.169601E+02  -1.163093E+02  -1.165304E+02  -1.172543E+02  -1.172543E+02  -1.165304E+02  -1.164
  73 -1.166827E+02  -1.164185E+02  -1.162244E+02  -1.171798E+02  -1.172871E+02  -1.172871E+02  -1.171
  81 -1.162564E+02  -1.167041E+02  -1.175038E+02  -1.175038E+02  -1.167041E+02  -1.162564E+02  -1.171
  89 -1.167217E+02  -1.171302E+02  -1.165486E+02  -1.171277E+02  -1.174790E+02  -1.174790E+02  -1.171
  97 -1.164174E+02  -1.168748E+02  -1.173803E+02  -1.174147E+02  -1.173803E+02  -1.174147E+02  -1.168
 105 -1.171123E+02  -1.171225E+02  -1.159842E+02  -1.159842E+02  -1.171225E+02  -1.171123E+02  -1.088
 113 -1.166789E+02  -1.175304E+02  -1.175304E+02  -1.166789E+02  -1.158459E+02  -1.088840E+02  -1.150
 121 -1.169834E+02  -1.169834E+02  -1.161346E+02  -1.150977E+02  -1.171338E+02  -1.171560E+02  -1.172
 129 -1.172169E+02  -1.170478E+02  -1.145131E+02  -1.157305E+02  -1.166199E+02  -1.173889E+02  -1.173
 137 -1.157305E+02  -1.145131E+02  -1.156042E+02  -1.163329E+02  -1.170259E+02  -1.170260E+02  -1.163
 145 -1.172111E+02  -1.172111E+02  -1.171205E+02  -1.171783E+02  -1.171205E+02  -1.163260E+02  -1.175
 153 -1.175226E+02  -1.173740E+02  -1.173740E+02  -1.175226E+02  -1.164824E+02  -1.164824E+02

CONDUCTOR VOLTAGES:  -1.1470E+02
****CYCLE    1 DONE****(3.000000E-01 SECS ELAPSED.)
        GROUND CONDUCTOR VOLTAGE IS  -1.1470E+02
LEAVING CHARGE SECTION

       $$$ TOTAL CHARGING TIME =     3.00E-01 SECONDS
      $$$     3.00E-01 SECONDS THIS CHARGE CYCLE.
***WARNING***openms - MS FILE 19 ALREADY OPEN.


 ****** TIMER CALL FROM SCIENC ******


 ****** AT THE TERMINUS ******
ELAPSED:     0 00:16:29.70  CPU: 0:14:24.26  BUFIO: 94  DIRIO: 6991  FAULTS: 197
NEXT CARD PLEASE.
pwason
```

```
                    +++CALCULATE SPACE POTENTIALS (PWASON)+++
                    THIS IS CYCLE    2 OF PWASON


 ****** TIMER CALL FROM SCIENC ******


 ****** BEFORE PWASON ******
ELAPSED:     0 00:16:31.64  CPU: 0:14:25.16  BUFIO: 100  DIRIO: 7007  FAULTS: 606
icuren=     1
POTENTIALS will be found with a RMS error convergence limit =   5.0000E-02
MAXITC =  15 MAXITS =   2
INITIAL RDOTR=0.621391D+06

***CONGRD ITERATION     1  COPROD OF U DOT MU
              UDOTMU =   2.783D+06 A =    2.232E-01 B =    4.300E-02
           RDOTR =  2.67170D+04
    ORIGINAL RDOTR =  6.21391E+05
         LAST RDOTR =  6.21391D+05
 (RDOTR ORIGINAL)/(RDOTR NEW) =  2.32582E+01
 LOG 10 OF RDOTR RATIO = CONV =  1.36658E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     2  COPROD OF U DOT MU
              UDOTMU =   1.459D+05 A =    1.832E-01 B =    5.147E-02
           RDOTR =  1.37514D+03
    ORIGINAL RDOTR =  6.21391E+05
         LAST RDOTR =  2.67170D+04
 (RDOTR ORIGINAL)/(RDOTR NEW) =  4.51873E+02
 LOG 10 OF RDOTR RATIO = CONV =  2.65502E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     3  COPROD OF U DOT MU
              UDOTMU =   7.380D+03 A =    1.863E-01 B =    4.956E-02
           RDOTR =  6.81557D+01
    ORIGINAL RDOTR =  6.21391E+05
         LAST RDOTR =  1.37514D+03
 (RDOTR ORIGINAL)/(RDOTR NEW) =  9.11722E+03
 LOG 10 OF RDOTR RATIO = CONV =  3.95986E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     4  COPROD OF U DOT MU
              UDOTMU =   3.500D+02 A =    1.947E-01 B =    5.668E-02
           RDOTR =  3.86321D+00
    ORIGINAL RDOTR =  6.21391E+05
         LAST RDOTR =  6.81557D+01
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.60848E+05
 LOG 10 OF RDOTR RATIO = CONV =  5.20642E+00  POTCON =  5.00000E+00
$$$CONGRD - RDOTR/RDRORG = 0.38632JD+01/0.621391E+06 RDRMIN = 0.100000D-19
          AFTER     4 ITERATIONS

 CONGRD SATISFACTORALY CONVERGED


$$ AFTER CONGRD, TOTAL SPCHG ITERATION COUNT, ITSPST =    3,   1TH ITERATION FOR THIS RUN
                GREETINGS FROM POTSET

          DOUBLE POINT POTENTIALS
         WORD,   TOP,    BOTTOM
                24777   -1.1604E+02   -1.1660E+02
                28873   -1.1686E+02   -1.1686E+02
                28936   -1.1551E+02   -1.1654E+02
                28938   -1.1551E+02   -1.1654E+02
                32969   -1.1605E+02   -1.1713E+02
                33032   -1.1585E+02   -1.1667E+02
                33034   -1.1585E+02   -1.1667E+02
                37065   -1.1686E+02   -1.1717E+02
                37128   -1.1633E+02   -1.1672E+02
                37130   -1.1633E+02   -1.1672E+02
                41161   -1.1712E+02   -1.1738E+02
                41224   -1.1666E+02   -1.1708E+02
                41226   -1.1666E+02   -1.1708E+02
                45255   -1.1656E+02   -1.1677E+02
                45257   -1.1738E+02   -1.1746E+02
                45259   -1.1656E+02   -1.1677E+02
                45320   -1.1686E+02   -1.1729E+02
                45322   -1.1686E+02   -1.1729E+02
                49351   -1.1660E+02   -1.1655E+02
                49353   -1.1750E+02   -1.1740E+02
```

Micro Shuttle POLA 1.1 Results

```
                49355   -1.[illegible]E+02   -1.[illegible]E+02
                53446   -1.[illegible]E+02   -1.[illegible]E+02
                53447   -1.[illegible]E+02   -1.[illegible]E+02
                53451   -1.[illegible]E+02   -1.[illegible]E+02
                53452   -1.1579E+02   -1.[illegible]E+02
                53577   -1.1719E+02   -1.[illegible]E+02
                    0   -5.[illegible]E+01   -5.0000E+01
INITIAL RDOTR=0.7[illegible]613D+04

***CONGRD ITERATION     1  COPROD OF U DOT MU
              UDOTMU =   5.[illegible]D+03 A =    2.066E-01 B =    6.[illegible]E-02
               RDOTR =  6.152[illegible]D+02
    ORIGINAL RDOTR =  7.32613E+03
         LAST RDOTR =  7.32613D+03
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.19079E+01
 LOG 10 OF RDOTR RATIO = CONV =  1.07584E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     2  COPROD OF U DOT MU
              UDOTMU =   3.044D+03 A =    2.021E-01 B =    7.[illegible]E-02
               RDOTR =  6.489[illegible]D+01
    ORIGINAL RDOTR =  7.32613E+03
         LAST RDOTR =  6.152[illegible]D+02
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.[illegible]3196E+02
 LOG 10 OF RDOTR RATIO = CONV =  2.21271E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     3  COPROD OF U DOT MU
              UDOTMU =   2.281D+02 A =    1.968E-01 B =    5.662E-02
               RDOTR =  2.54168D+00
    ORIGINAL RDOTR =  7.32613E+03
         LAST RDOTR =  6.48915D+01
 (RDOTR ORIGINAL)/(RDOTR NEW) =  2.88240E+03
 LOG 10 OF RDOTR RATIO = CONV =  3.45975E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     4  COPROD OF U DOT MU
              UDOTMU =   1.334D+01 A =    1.906E-01 B =    5.197E-02
               RDOTR =  1.32090D-01
    ORIGINAL RDOTR =  7.32613E+03
         LAST RDOTR =  2.54168D+00
 (RDOTR ORIGINAL)/(RDOTR NEW) =  5.54632E+04
 LOG 10 OF RDOTR RATIO = CONV =  4.74401E+00  POTCON =  5.00000E+00

***CONGRD ITERATION     5  COPROD OF U DOT MU
              UDOTMU =   7.279D-01 A =    1.815E-01 B =    3.989E-02
               RDOTR =  5.26866D-03
    ORIGINAL RDOTR =  7.32613E+03
         LAST RDOTR =  1.32090D-01
 (RDOTR ORIGINAL)/(RDOTR NEW) =  1.39051E+06
 LOG 10 OF RDOTR RATIO = CONV =  6.14317E+00  POTCON =  5.00000E+00
$$$CONGRD - RDOTR/RDRORG = 0.526866D-02/0.732613E+04 RDRMIN = 0.100000D-19
           AFTER     5 ITERATIONS

 CONGRD SATISFACTORALY CONVERGED


$$ AFTER CONGRD, TOTAL SPCHG ITERATION COUNT, ITSPST =   4,   2TH ITERATION FOR THIS RUN
                GREETINGS FROM POTSET

        DOUBLE POINT POTENTIALS
       WORD,   TOP,    BOTTOM
              24777   -1.1604E+02   -1.1660E+02
              28873   -1.1686E+02   -1.1686E+02
              28936   -1.1551E+02   -1.1654E+02
              28938   -1.1551E+02   -1.1654E+02
              32969   -1.1685E+02   -1.1713E+02
              33032   -1.1585E+02   -1.1667E+02
              33034   -1.1585E+02   -1.1667E+02
              37065   -1.1686E+02   -1.1717E+02
              37128   -1.1633E+02   -1.1672E+02
              37130   -1.1633E+02   -1.1672E+02
              41161   -1.1712E+02   -1.1738E+02
              41224   -1.1666E+02   -1.1708E+02
              41226   -1.1666E+02   -1.1708E+02
              45255   -1.1656E+02   -1.1677E+02
              45257   -1.1738E+02   -1.1746E+02
              45259   -1.1656E+02   -1.1677E+02
              45320   -1.1686E+02   -1.1729E+02
              45322   -1.1686E+02   -1.1729E+02
              49351   -1.1660E+02   -1.1655E+02
              49353   -1.1750E+02   -1.1740E+02
              49355   -1.1660E+02   -1.1655E+02
              53446   -1.1579E+02   -1.1374E+02
              53447   -1.1662E+02   -1.1622E+02
              53451   -1.1662E+02   -1.1622E+02
              53452   -1.1579E+02   -1.1374E+02
              53577   -1.1719E+02   -1.1693E+02
                  0   -5.0000E+01   -5.0000E+01
***POTSET WARNING POT  ALREADY IN CBUF, WITH  2 SLICES DECLARED. DATA IGNORED
 RMS error =  1.90298E-01 RMS convergence limit =  5.00000E-02
                GREETINGS FROM POTSET

        DOUBLE POINT POTENTIALS
       WORD,   TOP,    BOTTOM
              24777   -1.1604E+02   -1.1660E+02
              28873   -1.1686E+02   -1.1686E+02
              28936   -1.1551E+02   -1.1654E+02
              28938   -1.1551E+02   -1.1654E+02
              32969   -1.1685E+02   -1.1713E+02
              33032   -1.1585E+02   -1.1667E+02
              33034   -1.1585E+02   -1.1667E+02
              37065   -1.1686E+02   -1.1717E+02
              37128   -1.1633E+02   -1.1672E+02
              37130   -1.1633E+02   -1.1672E+02
              41161   -1.1712E+02   -1.1738E+02
              41224   -1.1666E+02   -1.1708E+02
              41226   -1.1666E+02   -1.1708E+02
              45255   -1.1656E+02   -1.1677E+02
              45257   -1.1738E+02   -1.1746E+02
              45259   -1.1656E+02   -1.1677E+02
              45320   -1.1686E+02   -1.1729E+02
              45322   -1.1686E+02   -1.1729E+02
              49351   -1.1660E+02   -1.1655E+02
              49353   -1.1750E+02   -1.1740E+02
              49355   -1.1660E+02   -1.1655E+02
              53446   -1.1579E+02   -1.1374E+02
              53447   -1.1662E+02   -1.1622E+02
              53451   -1.1662E+02   -1.1622E+02
              53452   -1.1579E+02   -1.1374E+02
              53577   -1.1719E+02   -1.1693E+02
                  0   -5.0000E+01   -5.0000E+01

                THE ENTIRE POT  DATA IS AS FOLLOWS

              POT  INFORMATION FOR SLICE IZOB =   -2

              -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
   16    17    18
-3 1.E -4 *   -7.55 -7.77 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.78 -7.78 -7.77 -7.77 -7.77 -7.78
-7.79 -7.77 -7.55
-2 1.E -4 *   -7.77 -8.24 -8.27 -8.28 -8.28 -8.28 -8.27 -8.27 -8.25 -8.23 -8.21 -8.20 -8.19 -8.20 -8.21
-8.27 -8.24 -7.77
-1 1.E -4 *   -7.79 -8.27 -8.31 -8.32 -8.32 -8.31 -8.31 -8.29 -8.25 -8.19 -8.13 -8.06 -8.02 -8.06 -8.13
-8.31 -8.27 -7.79
 0 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.30 -8.25 -8.17 -8.03 -7.84 -7.71 -7.69 -7.71 -7.84
-8.31 -8.28 -7.79
 1 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.31 -8.28 -8.20 -8.04 -7.76 -7.43 -7.18 -6.96 -7.18 -7.43
-8.31 -8.27 -7.79
 2 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.31 -8.26 -8.15 -7.88 -7.47 -6.99 -6.43 -6.47 -6.43 -6.99
-8.30 -8.27 -7.79
 3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.31 -8.24 -8.12 -7.75 -7.33 -6.51 -6.21 -5.67 -6.21 -6.51
-8.30 -8.27 -7.79
 4 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.31 -8.24 -8.12 -7.73 -7.32 -6.45 -6.21 -5.56 -6.21 -6.45
-8.30 -8.27 -7.79
 5 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.31 -8.25 -8.14 -7.85 -7.40 -6.90 -6.26 -6.37 -6.26 -6.90
-8.30 -8.27 -7.79
 6 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.31 -8.28 -8.19 -8.00 -7.68 -7.30 -7.03 -6.76 -7.03 -7.30
-8.31 -8.27 -7.79
```

Micro Shuttle POLAR 1.1 Results

```
 7 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.29 -8.24 -8.13 -7.96 -7.73 -7.56 -7.53 -7.56 -7.73
-8.31 -8.28 -7.79
 8 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.31 -8.28 -8.23 -8.15 -8.05 -7.96 -7.91 -7.96 -8.05
-8.31 -8.28 -7.79
 9 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.29 -8.25 -8.22 -8.19 -8.18 -8.19 -8.22
-8.32 -8.28 -7.79
10 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.30 -8.29 -8.28 -8.27 -8.28 -8.29
-8.32 -8.28 -7.79
11 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.31 -8.31 -8.31 -8.31
-8.32 -8.28 -7.79
12 1.E -4 *   -7.79 -8.27 -8.31 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.31 -8.27 -7.79
13 1.E -4 *   -7.77 -8.24 -8.27 -8.28 -8.28 -8.28 -8.28 -8.28 -8.28 -8.28 -8.28 -8.28 -8.28 -8.28 -8.28
-8.27 -8.24 -7.77
14 1.E -4 *   -7.55 -7.77 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79 -7.79
-7.79 -7.77 -7.55

                    POT  INFORMATION FOR SLICE IZOB =   -1

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3     -2     -1      0      1      2      3      4      5      6      7      8      9     10     11
  16     17     18
-3 1.E -4 *   -7.77 -8.24 -8.27 -8.28 -8.28 -8.28 -8.27 -8.27 -8.26 -8.24 -8.21 -8.19 -8.19 -8.19 -8.21
-8.27 -8.24 -7.77
-2 1.E -4 *   -8.24 -9.03 -9.09 -9.09 -9.09 -9.09 -9.08 -9.06 -9.02 -8.96 -8.89 -8.82 -8.78 -8.82 -8.89
-9.08 -9.03 -8.24
-1 1.E -4 *   -8.27 -9.09 -9.15 -9.16 -9.16 -9.15 -9.13 -9.07 -8.97 -8.88 -8.88 -9.08 -9.26 -9.08 -8.88
-9.15 -9.09 -8.27
 0 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.15 -9.09 -8.97 -8.81 -8.86 -9.29 -9.51 -9.23 -9.51 -9.29
-9.14 -9.09 -8.28
 1 1.E -3 *   -0.83 -0.91 -0.92 -0.92 -0.92 -0.91 -0.90 -0.88 -0.87 -0.92 -0.97 -1.05 -1.23 -1.05 -0.97
-0.91 -0.91 -0.83
 2 1.E -3 *   -0.83 -0.91 -0.92 -0.92 -0.92 -0.91 -0.90 -0.87 -0.88 -0.96 -1.02 -1.36 -1.06 -1.36 -1.02
-0.91 -0.91 -0.83
 3 1.E -3 *   -0.83 -0.91 -0.92 -0.92 -0.92 -0.91 -0.89 -0.85 -0.91 -0.87 -1.28 -1.09 -1.68 -1.09 -1.28
-0.91 -0.91 -0.83
 4 1.E -3 *   -0.83 -0.91 -0.92 -0.92 -0.92 -0.91 -0.89 -0.85 -0.91 -0.85 -1.30 -1.00 -1.74 -1.00 -1.30
-0.91 -0.91 -0.83
 5 1.E -3 *   -0.83 -0.91 -0.92 -0.92 -0.92 -0.91 -0.89 -0.86 -0.87 -0.92 -0.96 -1.37 -0.93 -1.37 -0.96
-0.91 -0.91 -0.83
 6 1.E -3 *   -0.83 -0.91 -0.92 -0.92 -0.92 -0.91 -0.90 -0.88 -0.85 -0.89 -0.92 -0.96 -1.19 -0.96 -0.92
-0.91 -0.91 -0.83
 7 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.16 -9.15 -9.07 -8.92 -8.69 -8.58 -8.90 -9.04 -8.51 -9.04 -8.90
-9.14 -9.09 -8.28
 8 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.16 -9.16 -9.12 -9.04 -8.89 -8.72 -8.59 -8.71 -8.89 -8.71 -8.59
-9.15 -9.09 -8.28
 9 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.15 -9.12 -9.05 -8.95 -8.85 -8.74 -8.66 -8.74 -8.85
-9.16 -9.09 -8.28
10 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.16 -9.16 -9.15 -9.13 -9.09 -9.05 -9.02 -9.01 -9.02 -9.05
-9.16 -9.09 -8.28
11 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.15 -9.14 -9.13 -9.13 -9.13 -9.13 -9.14
-9.16 -9.09 -8.28
12 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.15 -9.15 -9.15 -9.15 -9.15 -9.16
-9.16 -9.09 -8.28
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16
-9.16 -9.09 -8.28
14 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16
-9.16 -9.09 -8.28

                    POT  INFORMATION FOR SLICE IZOB =    0

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3     -2     -1      0      1      2      3      4      5      6      7      8      9     10     11
  16     17     18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.30 -8.26 -8.18 -8.07 -7.92 -7.81 -7.77 -7.81 -7.92
-8.31 -8.28 -7.79
-2 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.15 -9.09 -8.97 -8.73 -8.34 -7.94 -7.60 -7.31 -7.60 -7.94
-9.14 -9.09 -8.28
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.92 -0.92 -0.90 -0.88 -0.89 -0.99 -1.05 -1.16 -1.40 -1.16 -1.05
-0.92 -0.91 -0.83
 0 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.91 -0.88 -0.87 -1.21 -2.48 -5.24 -7.02 -5.65 -7.02 -5.24
-0.91 -0.91 -0.83
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.21 -0.76 -2.25 -5.57 -8.97 -5.57 -2.25
-0.09 -0.09 -0.08
 2 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.15 -0.66 -1.29 -0.72 -1.29 -0.66
-0.01 -0.01 -0.01
 3 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.06 -0.18 -1.31 -0.85 -2.96 -0.85 -1.31
-0.01 -0.01 -0.01
 4 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.06 -0.17 -1.37 -0.69 -3.12 -0.69 -1.37
-0.01 -0.01 -0.01
 5 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.17 -0.64 -1.47 -0.62 -1.47 -0.64
-0.01 -0.01 -0.01
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.22 -0.83 -2.43 -5.42 -9.83 -5.42 -2.43
-0.09 -0.09 -0.08
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.21 -0.74 -2.05 -5.11 -9.08 -5.11 -2.05
-0.09 -0.09 -0.08
 8 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.91 -0.88 -0.85 -0.89 -1.22 -1.78 -2.85 -1.92 -2.85 -1.78
-0.92 -0.91 -0.83
 9 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.25 -9.22 -9.12 -8.98 -8.57 -8.42 -8.52 -8.61 -8.07 -8.61 -8.52
-9.21 -9.16 -8.32
10 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.25 -9.25 -9.21 -9.13 -8.98 -8.76 -8.46 -8.24 -8.19 -8.24 -8.46
-9.24 -9.16 -8.32
11 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.26 -9.25 -9.25 -9.23 -9.19 -9.13 -9.09 -9.07 -9.01 -8.98 -9.01 -9.07
-9.24 -9.16 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.25 -9.25 -9.24 -9.24 -9.23 -9.22 -9.21 -9.21 -9.21 -9.22
-9.24 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.31 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =    1

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3     -2     -1      0      1      2      3      4      5      6      7      8      9     10     11
  16     17     18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.30 -8.26 -8.18 -8.07 -7.92 -7.81 -7.77 -7.81 -7.92
-8.31 -8.28 -7.79
-2 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.15 -9.09 -8.97 -8.73 -8.34 -7.94 -7.60 -7.31 -7.60 -7.94
-9.14 -9.09 -8.28
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.92 -0.92 -0.90 -0.88 -0.89 -0.99 -1.05 -1.16 -1.40 -1.16 -1.05
-0.92 -0.91 -0.83
 0 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.91 -0.88 -0.87 -1.21 -2.48 -5.24 -7.02 -5.65 -7.02 -5.24
-0.91 -0.91 -0.83
 1 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.21 -0.76 -2.25 -5.57 -8.97 -5.57 -2.25
-0.09 -0.09 -0.08
 2 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.15 -0.66 -1.29 -0.72 -1.29 -0.66
-0.01 -0.01 -0.01
 3 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.06 -0.18 -1.31 -0.85 -2.96 -0.85 -1.31
-0.01 -0.01 -0.01
 4 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.06 -0.17 -1.37 -0.69 -3.12 -0.69 -1.37
-0.01 -0.01 -0.01
 5 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.17 -0.64 -1.47 -0.62 -1.47 -0.64
-0.01 -0.01 -0.01
 6 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.22 -0.83 -2.43 -5.42 -9.83 -5.42 -2.43
-0.09 -0.09 -0.08
 7 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.21 -0.74 -2.05 -5.11 -9.08 -5.11 -2.05
-0.09 -0.09 -0.08
 8 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.91 -0.88 -0.85 -0.89 -1.22 -1.78 -2.85 -1.92 -2.85 -1.78
-0.92 -0.91 -0.83
 9 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.25 -9.22 -9.12 -8.98 -8.57 -8.42 -8.52 -8.61 -8.07 -8.61 -8.52
-9.21 -9.16 -8.32
10 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.25 -9.25 -9.21 -9.13 -8.98 -8.76 -8.46 -8.24 -8.19 -8.24 -8.46
-9.24 -9.16 -8.32
11 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.26 -9.25 -9.25 -9.23 -9.19 -9.13 -9.09 -9.07 -9.01 -8.98 -9.01 -9.07
-9.24 -9.16 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.25 -9.25 -9.24 -9.24 -9.23 -9.22 -9.21 -9.21 -9.21 -9.22
-9.24 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.31 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =    2

                    -->X IS HORIZONTAL, Y IS VERTICAL<--
```

Micro Shuttle POLAR 1.1 Results

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.31 -8.28 -8.20 -8.04 -7.80 -7.52 -7.30 -7.18 -7.30 -7.52
-8.31 -8.27 -7.79
-2 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.16 -9.12 -9.01 -8.78 -8.28 -7.57 -6.71 -5.84 -5.98 -5.84 -6.71
-9.11 -9.08 -8.28
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.92 -0.91 -0.88 -0.87 -0.97 -1.11 -1.39 -1.87 -1.38 -1.87 -1.39
-0.91 -0.91 -0.83
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.21 -0.59 -0.95 -1.07 -1.98 -1.07 -0.95
-0.09 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.25 -0.99 -1.66 -0.91 -1.68 -0.99
-0.01 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.07 -0.32 -1.16 -2.68 -1.16 -0.32
 0.00  0.00  0.00
 3 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.14 -0.42 -3.34 -0.32 -3.34 -0.42
 0.00  0.00  0.00
 4 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.14 -0.38 -3.61 -0.16 -3.61 -0.38
 0.00  0.00  0.00
 5 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.07 -0.40 -0.97 -2.94 -0.97 -0.40
 0.00  0.00  0.00
 6 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.06 -0.30 -1.52 -2.79 -0.93 -2.79 -1.52
-0.01 -0.01 -0.01
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.10 -0.26 -0.56 -1.00 -0.56 -0.26
-0.01 -0.01 -0.01
 8 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.91 -0.86 -0.84 -1.15 -2.12 -4.52 -6.87 -5.11 -6.87 -4.52
-0.90 -0.91 -0.83
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.92 -0.90 -0.86 -0.82 -0.88 -0.92 -0.95 -1.18 -0.95 -0.92
-0.92 -0.91 -0.83
10 1.E -4 *   -8.32 -9.17 -9.25 -9.26 -9.25 -9.23 -9.16 -8.99 -8.68 -8.17 -7.58 -7.15 -6.81 -7.15 -7.58
-9.22 -9.16 -8.32
11 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.26 -9.25 -9.23 -9.19 -9.11 -8.99 -8.85 -8.73 -8.69 -8.73 -8.85
-9.24 -9.16 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.25 -9.25 -9.24 -9.23 -9.21 -9.19 -9.18 -9.17 -9.18 -9.19
-9.24 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.17 -9.17 -9.17 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16 -9.16
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.32 -8.28 -7.79
```

POT INFORMATION FOR SLICE IZOB = 3

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.30 -8.24 -8.09 -7.81 -7.37 -6.87 -6.42 -6.30 -6.42 -6.87
-8.29 -8.27 -7.79
-2 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.15 -9.08 -8.91 -8.48 -7.60 -6.43 -4.66 -3.86 -2.45 -3.86 -4.66
-9.07 -9.07 -8.27
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.92 -0.90 -0.86 -0.90 -1.10 -1.33 -2.21 -1.97 -3.57 -1.97 -2.21
-0.90 -0.91 -0.83
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.12 -0.43 -1.13 -1.50 -3.33 -1.65 -3.33 -1.50
-0.09 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.11 -0.74 -2.15 -1.24 -4.71 -1.24 -2.15
-0.01 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.18 -1.27 -4.76  0.07 -4.76 -1.27
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.10 -1.04 -0.10 -0.03
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.06 -1.05 -0.06 -0.04
 0.00  0.00  0.00
 5 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.22 -1.21 -8.77  2.84 -8.77 -1.21
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.08 -0.43 -1.00 -2.98 -1.00 -0.43
 0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.07 -0.23 -0.73 -1.64 -0.80 -1.64 -0.73
-0.01 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.10 -0.20 -0.57 -1.12 -1.17 -2.08 -1.17 -1.12
-0.09 -0.09 -0.08
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.91 -0.88 -0.85 -0.89 -0.96 -0.97 -1.42 -0.95 -1.42 -0.97
-0.91 -0.91 -0.83
10 1.E -4 *   -8.32 -9.17 -9.25 -9.26 -9.24 -9.20 -9.06 -8.78 -8.17 -7.31 -6.35 -5.32 -5.30 -5.32 -6.35
-9.19 -9.15 -8.32
11 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.25 -9.24 -9.20 -9.12 -8.96 -8.75 -8.49 -8.32 -8.22 -8.32 -8.49
-9.23 -9.16 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.25 -9.24 -9.23 -9.21 -9.18 -9.15 -9.12 -9.11 -9.12 -9.15
-9.24 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.17 -9.17 -9.16 -9.16 -9.16 -9.16 -9.15 -9.15 -9.15 -9.16
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.32 -8.28 -7.79
```

POT INFORMATION FOR SLICE IZOB = 4

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.31 -8.28 -8.18 -7.94 -7.48 -6.78 -5.95 -5.28 -4.97 -5.28 -5.95
-8.28 -8.27 -7.79
-2 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.13 -9.02 -8.76 -8.04 -6.81 -4.62 -2.15  0.41  0.60  0.41 -2.15
-9.02 -9.06 -8.27
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.91 -0.88 -0.84 -0.98 -1.18 -2.06 -2.82 -4.10 -3.28 -4.10 -2.82
-0.88 -0.91 -0.83
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.08 -0.18 -0.86 -1.51 -3.23 -3.90 -6.09 -3.90 -3.23
-0.08 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.25 -1.89 -2.75 -5.51 -3.84 -5.51 -2.75
-0.01 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.08 -0.30 -3.69 -2.35 -5.39 -2.35 -3.69
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.03 -1.06 -1.06 -1.06 -1.06 -0.03
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.03 -1.06  0.00 -1.06 -0.03
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.05 -0.06 -1.07 -0.06 -0.05
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.06 -0.26 -0.50 -4.05 -0.54 -4.05 -0.50
 0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.22 -0.74 -2.55 -1.93 -4.56 -1.93 -2.55
-0.01 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.16 -0.45 -1.16 -1.29 -2.87 -1.85 -2.87 -1.29
-0.09 -0.09 -0.08
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.92 -0.90 -0.87 -0.89 -1.00 -1.05 -1.69 -1.27 -2.16 -1.27 -1.69
-0.90 -0.91 -0.83
10 1.E -4 *   -8.32 -9.17 -9.25 -9.26 -9.23 -9.16 -8.93 -8.46 -7.47 -6.22 -4.28 -3.41 -2.30 -3.41 -4.28
-9.15 -9.14 -8.32
11 1.E -4 *   -8.32 -9.16 -9.25 -9.26 -9.25 -9.23 -9.16 -9.01 -8.76 -8.41 -8.05 -7.75 -7.67 -7.75 -8.05
-9.22 -9.16 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.25 -9.24 -9.22 -9.19 -9.15 -9.10 -9.06 -9.04 -9.06 -9.10
-9.24 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.17 -9.16 -9.16 -9.16 -9.15 -9.15 -9.15 -9.15 -9.15 -9.15
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.33 -8.33 -8.33 -8.33 -8.32
-8.32 -8.28 -7.79
```

POT INFORMATION FOR SLICE IZOB = 5

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.31 -8.26 -8.10 -7.75 -7.08 -6.10 -4.90 -3.94 -3.55 -3.94 -4.90
-8.25 -8.26 -7.79
-2 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.11 -8.96 -8.55 -7.56 -5.81 -2.54  0.75  4.49  5.69  4.49  0.75
-8.95 -9.03 -8.27
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.91 -0.86 -0.85 -1.03 -1.43 -2.88 -3.34 -5.11 -5.25 -5.11 -3.34
-0.86 -0.90 -0.83
 0 1.E -7 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.35 -1.19 -2.18 -5.55 -6.26 -7.39 -6.26 -5.55
-0.08 -0.09 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.08 -0.73 -2.83 -3.55 -8.82 -9.49 -8.82 -3.55
-0.01 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.16 -1.25 -6.31 -5.08 -7.98 -5.08 -6.31
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.06 -1.12 -1.12 -1.12 -0.06
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.11 -1.11  0.00 -1.11 -0.11
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.01 -0.21 -1.11 -0.21 -0.01
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.16 -1.22 -3.56 -5.89 -3.78 -5.89 -3.56
```

```
  0.00  0.00  0.00
  7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.07 -0.67 -1.66 -2.73 -3.60 -4.91 -3.60 -2.73
-0.01 -0.01 -0.01
  8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.32 -0.77 -1.57 -2.83 -3.57 -3.92 -3.57 -2.83
-0.08 -0.09 -0.08
  9 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.91 -0.88 -0.89 -0.94 -1.17 -1.49 -1.52 -1.90 -1.70 -1.90 -1.52
-0.88 -0.90 -0.83
 10 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.21 -9.12 -8.76 -8.10 -6.70 -4.76 -2.61 -0.68 -0.12 -0.68 -2.61
-9.11 -9.12 -8.32
 11 1.E -4 *   -8.32 -9.17 -9.25 -9.26 -9.25 -9.21 -9.10 -8.88 -8.51 -8.04 -7.53 -7.19 -7.02 -7.19 -7.53
-9.20 -9.15 -8.32
 12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.23 -9.21 -9.17 -9.11 -9.04 -8.99 -8.97 -8.99 -9.04
-9.24 -9.16 -8.32
 13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.16 -9.16 -9.16 -9.15 -9.15 -9.14 -9.14 -9.14 -9.14 -9.14
-9.16 -9.09 -8.28
 14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =    6

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.30 -8.22 -8.01 -7.53 -6.67 -5.37 -3.92 -2.67 -2.21 -2.67 -3.92
-8.22 -8.25 -7.79
-2 1.E -3 *   -0.83 -0.91 -0.92 -0.92 -0.91 -0.89 -0.83 -0.71 -0.45 -0.08  0.45  0.83  1.02  0.83  0.45
-0.89 -0.90 -0.83
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.90 -0.83 -0.89 -1.01 -2.01 -2.92 -5.12 -5.56 -6.16 -5.56 -5.12
-0.83 -0.89 -0.83
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.07 -0.09 -0.60 -1.21 -3.85 -5.33 -8.56 -9.34 -8.56 -5.33
-0.07 -0.09 -0.08
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.16 -0.24 -0.83 -1.05 -1.16 -1.05 -0.83
0.00  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.39 -0.22 -1.20 -1.91 -1.20 -0.22
0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.01 -1.14 -1.15  0.00 -1.15 -1.14
0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.08 -0.22 -1.16 -1.17 -1.16 -0.22
0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.01 -1.16 -0.28 -1.16 -0.28 -1.16
0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.14 -3.76 -0.88 -7.74 -2.16 -7.74 -0.88
0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.09 -1.51 -1.48 -5.91 -3.75 -7.87 -3.75 -5.91
-0.01 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.56 -0.85 -2.76 -2.37 -5.11 -5.38 -5.11 -2.37
-0.08 -0.09 -0.08
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.90 -0.86 -0.93 -0.95 -1.55 -1.29 -2.48 -1.29 -2.64 -1.29 -2.48
-0.85 -0.89 -0.83
10 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.19 -9.07 -8.57 -7.77 -5.76 -3.69 -0.13  1.29  3.15  1.29 -0.13
-9.06 -9.10 -8.31
11 1.E -4 *   -8.32 -9.17 -9.25 -9.26 -9.24 -9.19 -9.04 -8.74 -8.26 -7.65 -7.07 -6.60 -6.47 -6.60 -7.07
-9.18 -9.15 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.23 -9.20 -9.16 -9.07 -8.99 -8.93 -8.90 -8.93 -8.99
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.16 -9.16 -9.16 -9.15 -9.14 -9.14 -9.13 -9.13 -9.13 -9.14
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =    7

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.31 -8.28 -8.17 -7.89 -7.28 -6.22 -4.70 -3.00 -1.64 -1.10 -1.63 -3.00
-8.17 -8.24 -7.79
-2 1.E -3 *   -0.83 -0.91 -0.92 -0.91 -0.90 -0.88 -0.79 -0.64 -0.42 -0.13  0.30  0.78  1.08  1.08  0.78
-0.88 -0.89 -0.82
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.88 -0.80 -0.93 -1.14 -1.25 -3.41 -5.05 -6.20 -6.78 -6.20 -5.05
-0.80 -0.87 -0.82
 0 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.08 -0.17 -0.45 -0.80 -0.94 -1.00 -0.94 -0.80
-0.01 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.20 -0.31 -0.78 -1.12 -1.27 -1.12 -0.78
0.00  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.47 -0.48 -1.23 -1.78 -1.23 -0.48
0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -1.15 -1.16  0.00 -1.16 -1.15
0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.10 -0.34 -1.17 -0.54  0.00 -0.34
0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -1.16 -0.25 -0.14 -0.25 -1.16
0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.25 -4.67 -3.40 -6.93 -5.07 -6.93 -3.40
0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01  0.00 -0.02 -0.12 -1.97 -2.34 -5.30 -4.76 -6.05 -4.76 -5.30
0.00 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.07 -0.10 -0.72 -1.14 -2.93 -3.60 -4.93 -4.83 -4.93 -3.60
-0.07 -0.08 -0.08
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.90 -0.84 -0.95 -1.01 -1.65 -1.63 -1.87 -1.50 -1.51 -1.50 -1.87
-0.83 -0.89 -0.83
10 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.17 -9.02 -8.40 -7.40 -5.06 -2.31  1.23  3.76  4.94  3.76  1.23
-9.02 -9.08 -8.31
11 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.24 -9.17 -8.98 -8.61 -8.02 -7.31 -6.60 -6.12 -5.92 -6.12 -6.60
-9.16 -9.14 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.22 -9.19 -9.12 -9.03 -8.93 -8.85 -8.81 -8.85 -8.93
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.16 -9.16 -9.15 -9.14 -9.13 -9.13 -9.12 -9.12 -9.12 -9.13
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =    8

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.31 -8.31 -8.26 -8.11 -7.73 -6.96 -5.70 -3.97 -2.09 -0.59 -0.03 -0.59 -2.09
-8.10 -8.22 -7.78
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.91 -0.90 -0.86 -0.75 -0.55 -0.17  0.39  1.04  1.55  1.79  1.55  1.04
-0.86 -0.89 -0.82
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.91 -0.87 -0.80 -1.01 -1.36 -2.53 -3.96 -5.42 -6.09 -6.82 -6.09 -5.42
-0.80 -0.86 -0.82
 0 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.11 -0.23 -0.47 -0.73 -1.00 -1.03 -1.00 -0.73
-0.01 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.27 -0.48 -0.86 -1.07 -1.29 -1.07 -0.86
0.00  0.00  0.00
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.09 -0.40 -4.83 -5.50 -8.14 -7.47 -8.14 -5.50
0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -1.16 -1.16  0.00 -1.16 -1.16
0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.10 -0.35 -1.17 -0.68  0.00 -0.35
0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -1.16 -0.24 -0.18 -0.24 -1.16
0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.31 -4.79 -3.36 -6.12 -2.67 -6.12 -3.36
0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01  0.00 -0.02 -0.15 -2.11 -2.91 -5.92 -4.83 -6.84 -4.83 -5.92
0.00 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.08 -0.07 -0.10 -0.78 -1.39 -3.14 -3.55 -5.09 -4.30 -5.09 -3.55
-0.07 -0.08 -0.08
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.89 -0.82 -0.94 -1.05 -1.66 -1.69 -2.09 -1.29 -1.66 -1.29 -2.09
-0.82 -0.88 -0.83
10 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.15 -8.97 -8.27 -7.03 -4.47 -1.25  2.78  5.06  6.41  5.06  2.78
-8.96 -9.06 -8.31
11 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.23 -9.15 -8.93 -8.49 -7.80 -6.96 -6.15 -5.54 -5.30 -5.54 -6.15
-9.14 -9.14 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.22 -9.18 -9.11 -9.01 -8.94 -8.89 -8.87 -8.89 -8.94
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.16 -9.17 -9.16 -9.16 -9.15 -9.14 -9.13 -9.11 -9.10 -9.09 -9.10 -9.11
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =    9

                    -->X IS HORIZONTAL, Y IS VERTICAL<--
```

Micro Shuttle POLAR 1.1 Results

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.31 -8.30 -8.23 -8.02 -7.53 -6.58 -5.09 -3.07 -0.98  0.68  1.49  0.68 -0.98
-8.01 -8.18 -7.77
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.91 -0.89 -0.84 -0.70 -0.44  0.04  0.18  1.49  2.08  2.33  2.08  1.49
-0.83 -0.86 -0.82
-1 1.E -3 *   -0.83 -0.92 -0.92 -0.90 -0.85 -0.86 -1.17 -1.70 -3.08 -3.66 -5.57 -5.80 -6.21 -5.80 -5.57
-0.86 -0.84 -0.81
 0 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.04 -0.16 -0.30 -0.65 -0.80 -1.08 -1.13 -1.08 -0.80
-0.01 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.08 -0.35 -0.50 -0.98 -1.10 -1.25 -1.10 -0.98
 0.00  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.12 -0.75 -0.80 -1.01 -0.82 -1.01 -0.80
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03 -0.01 -1.16 -1.17  0.00 -1.17 -1.16
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.13 -0.39 -1.17 -0.61  0.00 -0.39
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -1.16 -0.24 -0.16 -0.24 -1.16
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.05 -0.33 -4.85 -3.45 -6.30 -3.04 -6.30 -4.45
 0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01  0.00 -0.02 -0.17 -2.17 -3.07 -6.00 -4.65 -6.55 -4.65 -6.00
 0.00 -0.01 -0.01
 8 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.08 -0.06 -0.10 -0.80 -1.50 -3.46 -4.22 -5.97 -5.08 -5.97 -4.22
-0.06 -0.08 -0.08
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.88 -0.80 -0.90 -1.03 -1.74 -2.03 -2.84 -3.06 -4.43 -3.07 -2.84
-0.80 -0.87 -0.83
10 1.E -4 *   -8.32 -9.17 -9.25 -9.24 -9.14 -8.93 -8.13 -6.71 -3.91 -1.09  1.80  3.96  6.20  3.95  1.79
-8.92 -9.05 -8.31
11 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.23 -9.14 -8.89 -8.38 -7.58 -6.65 -5.82 -5.48 -5.50 -5.48 -5.82
-9.13 -9.14 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.21 -9.15 -9.04 -8.88 -8.69 -8.53 -8.45 -8.53 -8.69
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.16 -9.14 -9.12 -9.10 -9.07 -9.04 -9.04 -9.04 -9.07
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.32 -8.28 -7.79
```

POT INFORMATION FOR SLICE IZOB = 10

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.31 -8.28 -8.18 -7.91 -7.30 -6.17 -4.41 -2.13  0.32  2.19  2.90  2.19  0.32
-7.91 -8.14 -7.76
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.90 -0.88 -0.80 -0.65 -0.31  0.26  1.11  2.00  2.77  3.06  2.77  2.00
-0.80 -0.87 -0.82
-1 1.E -3 *   -0.83 -0.91 -0.92 -0.89 -0.85 -1.02 -1.29 -2.35 -3.31 -5.02 -5.11 -5.77 -6.00 -5.77 -5.11
-1.01 -0.84 -0.80
 0 1.E -1 *   -0.01 -0.01 -0.0  -0.01 -0.01 -0.02 -0.09 -0.18 -0.44 -0.63 -1.02 -1.21 -1.25 -1.21 -1.02
-0.02 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.0  0.00  0.00  0.00 -0.02 -0.20 -0.38 -0.94 -1.09 -1.39 -1.60 -1.39 -1.09
 0.00  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.38 -0.34 -1.15 -1.46 -1.31 -1.46 -1.15
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -1.16 -1.17 -1.17  0.00 -1.17 -1.17
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.09 -0.41 -1.17 -0.76  0.00 -0.41
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.05 -1.17 -0.31 -0.20 -0.31 -1.17
 0.00  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.05 -0.37 -4.95 -3.82 -6.45 -3.94 -6.45 -3.82
 0.00  0.00  0.00
 7 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.07 -0.18 -2.20 -3.37 -7.20 -7.15 -7.88 -7.15 -7.20
-0.01 -0.01 -0.01
 8 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.08 -0.16 -0.41 -0.60 -1.07 -1.46 -1.07 -0.60
-0.01 -0.01 -0.01
 9 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.88 -0.78 -0.86 -0.95 -1.95 -3.47 -7.80 -9.36 -6.27 -9.36 -7.79
-0.78 -0.87 -0.82
10 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.91 -0.89 -0.80 -0.64 -0.40 -0.37 -0.54 -1.42 -2.36 -1.42 -0.54
-0.89 -0.90 -0.83
11 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.23 -9.13 -8.85 -8.28 -7.42 -6.61 -6.30 -5.99 -5.32 -5.99 -6.31
-9.12 -9.14 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.20 -9.13 -8.97 -8.78 -8.43 -8.20 -8.14 -8.20 -8.43
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.15 -9.14 -9.10 -9.05 -8.99 -8.95 -8.92 -8.95 -8.99
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.31 -8.31 -8.31 -8.31 -8.31
-8.32 -8.28 -7.79
```

POT INFORMATION FOR SLICE IZOB = 11

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.27 -8.31 -8.27 -8.14 -7.81 -7.10 -5.85 -3.87 -1.34  1.36  3.46  4.27  3.46  1.36
-7.81 -8.09 -7.74
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.90 -0.87 -0.78 -0.60 -0.19  0.42  1.39  2.46  3.35  3.68  3.35  2.46
-0.78 -0.86 -0.81
-1 1.E -3 *   -0.83 -0.91 -0.91 -0.88 -0.89 -1.16 -1.54 -2.95 -3.48 -5.01 -5.44 -5.76 -5.46 -5.76 -5.44
-1.16 -0.88 -0.79
 0 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.03 -0.13 -0.22 -0.58 -0.81 -1.16 -1.38 -1.52 -1.38 -1.16
-0.03 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.07 -0.32 -0.39 -0.95 -1.37 -1.77 -1.86 -1.77 -1.37
-0.01  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.11 -0.72 -0.72 -1.21 -1.64 -1.92 -1.64 -1.21
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.03  0.00 -1.16  0.00 -1.17  0.00 -1.17  0.00
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.08 -0.12 -0.52 -1.17 -0.82  0.00 -0.52
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.06 -1.17 -0.34 -0.31 -0.34 -1.17
 0.00  0.00  0.00
 6 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -0.49 -0.52 -1.27 -0.47 -1.27 -0.52
 0.00  0.00  0.00
 7 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.21 -0.36 -0.94 -1.52 -3.72 -1.52 -0.94
 0.00  0.00  0.00
 8 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.07 -0.16 -0.48 -1.50 -2.70 -0.95 -2.70 -1.50
-0.01 -0.01 -0.01
 9 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.08 -0.08 -0.09 -0.22 -0.74 -2.21 -5.41 -9.85 -5.40 -2.20
-0.08 -0.09 -0.08
10 1.E -3 *   -0.83 -0.92 -0.92 -0.92 -0.91 -0.89 -0.79 -0.62 -0.53 -1.06 -2.97 -4.69 -2.79 -4.69 -2.96
-0.89 -0.90 -0.83
11 1.E -4 *   -8.32 -9.17 -9.25 -9.25 -9.23 -9.13 -8.82 -8.22 -7.44 -7.32 -7.15 -7.36 -9.53 -7.38 -7.17
-9.12 -9.13 -8.32
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.19 -9.10 -8.89 -8.54 -8.13 -7.81 -7.52 -7.82 -8.13
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.15 -9.13 -9.07 -8.99 -8.89 -8.80 -8.78 -8.81 -8.89
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.31 -8.30 -8.30 -8.30 -8.31
-8.32 -8.28 -7.79
```

POT INFORMATION FOR SLICE IZOB = 12

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -4 *   -7.79 -8.27 -8.30 -8.26 -8.11 -7.75 -7.02 -5.71 -3.75 -1.14  1.61  3.79  4.62  3.79  1.61
-7.74 -8.07 -7.73
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.90 -0.86 -0.77 -0.56 -0.19  0.53  1.47  2.61  3.53  3.89  3.53  2.61
-0.77 -0.85 -0.81
-1 1.E -3 *   -0.83 -0.91 -0.91 -0.87 -0.97 -1.17 -1.99 -2.67 -4.66 -5.04 -5.81 -5.94 -5.90 -5.94 -5.81
-1.17 -0.96 -0.78
 0 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.06 -0.12 -0.34 -0.47 -0.89 -1.19 -1.44 -1.56 -1.44 -1.19
-0.06 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.15 -0.26 -0.74 -0.95 -1.49 -1.97 -2.12 -1.97 -1.49
-0.01  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.37 -0.32 -0.94 -1.35 -1.82 -2.14 -1.82 -1.35
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -1.12 -1.15  0.00 -1.17  0.00 -1.17  0.00
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.04 -0.14 -0.52 -1.17 -1.17 -1.17 -0.52
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -1.17 -1.17 -1.17 -1.17 -1.17
 0.00  0.00  0.00
```

```
 6 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.06 -0.10 -1.17 -0.10 -0.06
 0.00  0.00  0.00
 7 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.17 -0.38 -0.92 -6.83  2.14 -6.83 -0.92
 0.00  0.00  0.00
 8 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.05 -0.30 -1.03 -2.97 -1.03 -0.29
 0.00  0.00  0.00
 9 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.12 -0.62 -1.39 -0.58 -1.39 -0.62
-0.01 -0.01 -0.01
10 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.06 -0.07 -0.26 -0.56 -0.56 -1.38 -0.56 -0.56
-0.09 -0.09 -0.08
11 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.91 -0.88 -0.82 -0.79 -0.81 -0.85 -1.24 -0.82 -1.24 -0.85
-0.91 -0.91 -0.83
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.19 -9.08 -8.81 -8.39 -7.88 -7.26 -7.35 -7.26 -7.89
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.15 -9.12 -9.05 -8.93 -8.78 -8.68 -8.61 -8.68 -8.79
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.31 -8.30 -8.29 -8.28 -8.29 -8.30
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   13

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
   16    17    18
-3 1.E -4 *   -7.79 -8.27 -8.30 -8.25 -8.11 -7.76 -7.08 -5.90 -4.09 -1.76  0.74  2.73  3.48  2.73  0.74
-7.75 -8.06 -7.73
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.90 -0.86 -0.78 -0.58 -0.23  0.36  1.24  2.26  3.08  3.42  3.08  2.26
-0.78 -0.85 -0.81
-1 1.E -3 *   -0.83 -0.91 -0.91 -0.87 -1.01 -1.16 -2.05 -2.85 -3.84 -4.84 -5.52 -5.52 -5.01 -5.52 -5.52
-1.16 -1.00 -0.78
 0 1.E -2 *   -0.07 -0.01 -0.01 -0.01 -0.01 -0.07 -0.12 -0.31 -0.54 -0.83 -1.12 -1.39 -1.45 -1.39 -1.12
-0.07 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.10 -0.25 -0.55 -0.87 -1.32 -1.69 -1.91 -1.69 -1.32
-0.01  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.45 -0.46 -0.78 -1.29 -1.97 -2.20 -1.97 -1.29
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.07 -1.14  0.00  0.00 -1.17 -1.17 -1.17  0.00
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.05 -0.05 -0.10 -0.42 -1.17  0.00 -1.17 -0.42
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.06 -0.06 -1.17  0.00 -1.17 -0.06
 0.00  0.00  0.00
 6 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.00 -0.14 -1.16 -0.14 -0.00
 0.00  0.00  0.00
 7 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.03 -1.13 -0.03 -0.01
 0.00  0.00  0.00
 8 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.05 -0.23 -3.60  0.10 -3.60 -0.23
 0.00  0.00  0.00
 9 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.10 -1.33 -0.62 -3.14 -0.62 -1.32
-0.01 -0.01 -0.01
10 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.06 -0.08 -0.46 -0.41 -1.56 -0.59 -1.56 -0.41
-0.09 -0.09 -0.08
11 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.92 -0.88 -0.83 -0.87 -0.81 -1.27 -1.00 -1.75 -1.01 -1.28
-0.91 -0.91 -0.83
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.18 -9.09 -8.75 -8.41 -7.58 -7.38 -6.74 -7.39 -7.60
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.15 -9.11 -9.03 -8.89 -8.73 -8.58 -8.54 -8.58 -8.73
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.30 -8.29 -8.28 -8.28 -8.28 -8.29
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   14

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
   16    17    18
-3 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.30 -8.29 -8.28 -8.28 -8.28 -8.29
-8.32 -8.28 -7.79
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.90 -0.87 -0.80 -0.64 -0.38 -0.12  0.16  0.53  1.01  1.16  1.01  0.53
-0.80 -0.86 -0.81
-1 1.E -3 *   -0.83 -0.91 -0.91 -0.88 -0.99 -1.14 -1.86 -2.39 -3.93 -4.35 -5.16 -5.46 -5.44 -5.36 -5.16
-1.14 -0.98 -0.78
 0 1.E -2 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.06 -0.10 -0.27 -0.35 -0.63 -0.84 -1.04 -1.12 -1.04 -0.84
-0.06 -0.01 -0.01
 1 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.15 -0.19 -0.53 -0.70 -1.09 -1.37 -1.48 -1.37 -1.09
-0.01  0.00  0.00
 2 1.E  1 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.37 -0.21 -0.48 -0.68 -1.11 -1.34 -1.11 -0.68
 0.00  0.00  0.00
 3 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -1.15 -1.16 -1.17 -1.17 -1.17 -1.17 -1.17
 0.00  0.00  0.00
 4 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.04 -0.02 -0.06 -0.26 -1.17 -1.17 -1.17 -0.26
 0.00  0.00  0.00
 5 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.07 -1.17 -1.17 -1.17 -0.07
 0.00  0.00  0.00
 6 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -0.06 -1.15 -0.06 -0.04
 0.00  0.00  0.00
 7 1.E  2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.03 -1.13 -0.02 -0.01
 0.00  0.00  0.00
 8 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.04 -0.18 -3.57  0.15 -3.57 -0.17
 0.00  0.00  0.00
 9 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.09 -1.33 -0.60 -3.10 -0.60 -1.33
-0.01 -0.01 -0.01
10 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07 -0.08 -0.48 -0.41 -1.58 -0.63 -1.58 -0.41
-0.09 -0.09 -0.08
11 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.92 -0.89 -0.84 -0.91 -0.86 -1.36 -1.10 -1.83 -1.10 -1.36
-0.92 -0.91 -0.83
12 1.E -4 *   -8.32 -9.16 -9.24 -9.25 -9.25 -9.24 -9.19 -9.11 -8.79 -8.48 -7.69 -7.51 -6.90 -7.52 -7.70
-9.23 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.15 -9.12 -9.04 -8.90 -8.75 -8.59 -8.55 -8.59 -8.75
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.30 -8.29 -8.28 -8.27 -8.28 -8.29
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   15

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
   16    17    18
-3 1.E -4 *   -7.79 -8.27 -8.31 -8.28 -8.18 -7.97 -7.56 -6.90 -5.92 -4.71 -3.43 -2.43 -2.05 -2.43 -3.43
-7.96 -8.14 -7.75
-2 1.E -3 *   -0.83 -0.91 -0.91 -0.90 -0.88 -0.83 -0.72 -0.53 -0.26  0.16  0.62  1.00  1.16  1.00  0.62
-0.82 -0.87 -0.82
-1 1.E -3 *   -0.83 -0.91 -0.91 -0.89 -0.93 -1.11 -1.46 -2.24 -2.56 -3.38 -3.90 -4.23 -4.38 -4.23 -3.90
-1.11 -0.93 -0.80
 0 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.11 -0.35 -0.87 -1.49 -3.27 -4.55 -5.99 -7.19 -7.64 -7.19 -5.99
-0.35 -0.11 -0.08
 1 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.07 -0.64 -1.81 -2.03 -3.42 -5.31 -7.07 -7.81 -7.07 -5.31
-0.07 -0.01 -0.01
 2 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.13 -1.04 -3.73 -4.82 -5.40 -6.13 -6.55 -6.13 -5.40
-0.01  0.00  0.00
 3 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.02 -0.07 -2.70  0.12 -3.20 -5.21 -6.87 -6.76 -6.87 -5.21
-0.02  0.00  0.00
 4 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.13 -1.04 -3.77 -5.73 -9.75 -7.80 -7.77 -7.80 -9.75
-0.01  0.00  0.00
 5 1.E  0 *    0.00  0.00  0.00  0.00  0.00 -0.01 -0.06 -0.19 -0.27 -0.85 -5.15 -4.99 -8.65 -4.99 -5.15
-0.01  0.00  0.00
 6 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.06 -0.33 -1.52 -7.81 -5.53 -7.80 -1.51
 0.00  0.00  0.00
 7 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.02 -0.10 -0.37 -3.79 -0.05 -3.78 -0.37
 0.00  0.00  0.00
 8 1.E  0 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.01 -0.02 -0.19 -1.04 -2.66 -1.03 -0.19
 0.00  0.00  0.00
 9 1.E -1 *   -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.08 -0.61 -1.28 -0.63 -1.28 -0.61
-0.01 -0.01 -0.01
10 1.E -2 *   -0.08 -0.09 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.09 -0.30 -0.59 -0.65 -1.37 -0.65 -0.59
-0.09 -0.09 -0.08
11 1.E -3 *   -0.83 -0.92 -0.92 -0.93 -0.92 -0.92 -0.90 -0.87 -0.89 -0.96 -1.07 -1.46 -1.12 -1.47 -1.07
-0.92 -0.92 -0.83
12 1.E -4 *   -8.32  9.16 -9.24 -9.25 -9.25 -9.24 -9.21 -9.14 -8.92 -8.59 -8.17 -7.65 -7.74 -7.65 -8.18
-9.24 -9.16 -8.32
13 1.E -4 *   -8.28 -9.09 -9.16 -9.17 -9.17 -9.16 -9.16 -9.13 -9.07 -8.96 -8.82 -8.71 -8.65 -8.71 -8.82
-9.16 -9.09 -8.28
14 1.E -4 *   -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.31 -8.30 -8.29 -8.29 -8.28 -8.29 -8.29
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   16
```

Micro Shuttle POLAR 1.1 Results

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.79	-8.28	-8.31	-8.29	-8.23	-8.09	-7.84	-7.44	-6.90	-6.25	-5.61	-5.12	-4.90	-5.12	-5.61
-8.09 -8.19 -7.77															
-2 1.E -4 *	-8.28	-9.09	-9.13	-9.08	-8.92	-8.60	-7.99	-7.05	-5.45	-3.59	-1.56	0.12	0.71	0.12	-1.56
-8.59 -8.85 -8.19															
-1 1.E -3 *	-8.83	-0.91	-0.92	-0.90	-0.90	-1.00	-1.25	-1.57	-2.22	-2.69	-3.09	-3.45	-3.49	-3.45	-3.09
-1.00 -0.89 -0.81															
0 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.19	-0.49	-1.19	-1.54	-2.21	-3.00	-3.44	-3.75	-3.44	-3.00
-0.19 -0.10 -0.08															
1 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.19	-0.69	-2.44	-3.04	-2.74	-3.21	-3.36	-3.21	-2.74
-0.04 -0.01 -0.01															
2 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.06	-0.54	-1.61	-2.39	-3.68	-4.58	-5.52	-5.64	-5.52	-4.58
-0.06 -0.01 -0.01															
3 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.05	-0.92	-1.31	-5.05	-5.84	-8.42	-8.74	-9.00	-8.74	-8.42
-0.05 -0.01 -0.01															
4 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.06	-0.54	-1.76	-1.96	-4.60	-6.50	-8.86	-8.51	-8.86	-6.50
-0.06 -0.01 -0.01															
5 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.19	-0.69	-1.81	-4.40	-5.90	-8.94	-7.29	-8.94	-5.90
-0.04 -0.01 -0.01															
6 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.05	-0.11	-0.29	-1.18	-4.05	-4.02	-6.93	-4.02	-4.05
-0.02 -0.01 -0.01															
7 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.09	-0.38	-2.19	-2.55	-5.65	-2.55	-2.19
-0.01 -0.01 -0.01															
8 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.03	-0.13	-0.72	-1.40	-0.75	-1.40	-0.71
-0.01 -0.01 -0.01															
9 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.08	-0.07	-0.12	-0.49	-1.82	-5.20	-8.73	-5.19	-1.81
-0.09 -0.09 -0.08															
10 1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.92	-0.92	-0.88	-0.82	-0.91	-1.66	-3.80	-5.40	-4.17	-5.40	-3.80
-0.91 -0.91 -0.83															
11 1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.93	-0.92	-0.91	-0.89	-0.88	-0.94	-1.00	-1.10	-1.30	-1.10	-1.01
-0.92 -0.92 -0.83															
12 1.E -4 *	-8.32	-9.16	-9.24	-9.25	-9.25	-9.25	-9.22	-9.17	-9.04	-8.81	-8.53	-8.31	-8.09	-8.31	-8.54
-9.24 -9.16 -8.32															
13 1.E -4 *	-8.28	-9.09	-9.16	-9.17	-9.17	-9.17	-9.16	-9.14	-9.10	-9.03	-8.94	-8.86	-8.83	-8.86	-8.94
-9.16 -9.09 -8.28															
14 1.E -4 *	-7.79	-8.28	-8.32	-8.32	-8.32	-8.32	-8.32	-8.31	-8.31	-8.30	-8.30	-8.29	-8.30	-8.30	
-8.32 -8.28 -7.79															

POT INFORMATION FOR SLICE IZOB = 17

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.79	-8.28	-8.31	-8.21	-8.27	-8.20	-8.07	-7.88	-7.65	-7.44	-7.28	-7.18	-7.15	-7.18	-7.28
-8.20 -8.23 -7.78															
-2 1.E -4 *	-8.28	-9.09	-9.15	-9.11	-9.02	-8.88	-8.59	-8.27	-7.93	-7.60	-7.30	-7.06	-7.01	-7.06	-7.30
-8.87 -8.95 -8.23															
-1 1.E -3 *	-0.83	-0.92	-0.92	-0.91	-0.90	-0.92	-1.10	-1.29	-1.55	-1.88	-2.23	-2.57	-2.65	-2.57	-2.23
-0.92 -0.89 -0.82															
0 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.12	-0.21	-0.69	-1.08	-1.39	-1.64	-1.62	-1.71	-1.62	-1.64
-0.12 -0.09 -0.08															
1 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.05	-0.13	-1.01	-1.10	-0.34	-0.38	-0.41	-0.38	-0.34
-0.02 -0.01 -0.01															
2 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.03	-0.08	-0.37	-1.44	-1.42	-0.74	-0.83	-0.88	-0.83	-0.74
-0.03 -0.01 -0.01															
3 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.07	-0.83	-0.93	-0.75	-1.03	-1.55	-1.87	-1.55	-1.03
-0.04 -0.01 -0.01															
4 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.03	-0.08	-0.52	-0.81	-0.77	-1.19	-1.91	-2.57	-1.91	-1.19
-0.03 -0.01 -0.01															
5 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.06	-0.11	-0.23	-0.49	-2.36	-2.77	-1.79	-2.77	-2.36
-0.02 -0.01 -0.01															
6 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.05	-0.13	-0.36	-2.02	-2.38	-0.92	-2.38	-2.02
-0.01 -0.01 -0.01															
7 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.14	-0.39	-1.87	-2.84	-4.82	-4.65	-4.82	-2.84
-0.09 -0.09 -0.08															
8 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.08	-0.08	-0.18	-0.55	-1.18	-1.70	-2.62	-1.70	-1.18
-0.09 -0.09 -0.08															
9 1.E -3 *	-0.83	-0.92	-0.92	-0.92	-0.92	-0.90	-0.86	-0.82	-1.03	-2.10	-4.67	-6.55	-5.40	-6.54	-4.67
-0.90 -0.91 -0.83															
10 1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.92	-0.92	-0.91	-0.88	-0.89	-1.11	-1.67	-2.74	-3.58	-2.74	-1.67
-0.92 -0.92 -0.83															
11 1.E -4 *	-8.32	-9.16	-9.25	-9.26	-9.25	-9.24	-9.19	-9.08	-8.94	-9.03	-9.09	-9.89	-9.61	-9.90	-9.55
-9.24 -9.16 -8.32															
12 1.E -4 *	-8.32	-9.16	-9.24	-9.25	-9.25	-9.25	-9.24	-9.19	-9.14	-9.03	-8.86	-8.75	-8.75	-8.75	-8.82
-9.24 -9.16 -8.32															
13 1.E -4 *	-8.28	-9.09	-9.16	-9.16	-9.17	-9.17	-9.16	-9.15	-9.13	-9.09	-9.04	-9.03	-8.98	-9.00	-9.06
-9.16 -9.09 -8.28															
14 1.E -4 *	-7.79	-8.28	-8.32	-8.32	-8.32	-8.32	-8.32	-8.32	-8.32	-8.31	-8.31	-8.30	-8.31	-8.31	
-8.32 -8.28 -7.79															

POT INFORMATION FOR SLICE IZOB = 18

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.79	-8.28	-8.31	-8.31	-8.30	-8.27	-8.22	-8.17	-8.18	-8.29	-8.45	-8.62	-8.70	-8.62	-8.45
-8.27 -8.26 -7.79															
-2 1.E -3 *	-0.83	-0.91	-0.92	-0.91	-0.91	-0.90	-0.90	-0.91	-0.94	-1.00	-1.07	-1.13	-1.16	-1.13	-1.07
-0.90 -0.90 -0.83															
-1 1.E -3 *	-0.83	-0.92	-0.92	-0.92	-0.91	-0.91	-0.98	-1.19	-1.44	-1.82	-2.24	-2.54	-2.67	-2.54	-2.24
-0.91 -0.90 -0.83															
0 1.E -3 *	-0.83	-0.92	-0.92	-0.91	-0.90	-0.95	-1.26	-2.54	-5.18	-6.43	-6.12	-6.62	-7.04	-6.62	-6.12
-0.95 -0.90 -0.82															
1 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.11	-0.18	-0.62	-0.95	-1.27	-1.60	-1.64	-1.76	-1.64	-1.60
-0.11 -0.09 -0.08															
2 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.12	-0.30	-0.94	-1.56	-2.34	-3.19	-3.82	-4.16	-3.82	-3.19
-0.12 -0.09 -0.08															
3 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.04	-0.08	-0.21	-0.35	-0.52	-0.84	-1.05	-0.84	-0.52
-0.01 -0.01 -0.01															
4 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.03	-0.08	-0.16	-0.37	-0.59	-1.12	-1.56	-1.12	-0.59
-0.01 -0.01 -0.01															
5 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.05	-0.11	-0.26	-1.93	-2.30	-1.11	-2.30	-1.93
-0.01 -0.01 -0.01															
6 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.05	-0.16	-1.77	-1.91	-0.54	-1.91	-1.77
-0.01 -0.01 -0.01															
7 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.09	-0.10	-0.14	-0.28	-1.02	-1.58	-2.11	-2.87	-2.11	-1.58
-0.09 -0.09 -0.08															
8 1.E -3 *	-0.83	-0.92	-0.92	-0.92	-0.92	-0.91	-0.92	-1.04	-1.62	-2.65	-4.40	-6.36	-6.49	-6.36	-4.40
-0.91 -0.91 -0.83															
9 1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.92	-0.92	-0.91	-0.94	-1.05	-1.37	-1.80	-2.23	-2.58	-2.24	-1.80
-0.92 -0.91 -0.83															
10 1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.93	-0.92	-0.92	-0.97	-0.93	-0.98	-1.09	-1.15	-1.14	-1.15	-1.09
-0.92 -0.92 -0.83															
11 1.E -4 *	-8.32	-9.16	-9.25	-9.26	-9.26	-9.25	-9.24	-9.20	-9.14	-9.12	-9.23	-9.57	-9.73	-9.52	-9.23
-9.25 -9.17 -8.32															
12 1.E -4 *	-8.32	-9.16	-9.24	-9.25	-9.25	-9.25	-9.25	-9.23	-9.21	-9.16	-9.12	-9.07	-9.04	-9.07	-9.12
-9.24 -9.16 -8.32															
13 1.E -4 *	-8.28	-9.09	-9.16	-9.16	-9.17	-9.17	-9.16	-9.16	-9.15	-9.14	-9.12	-9.10	-9.09	-9.10	-9.12
-9.16 -9.09 -8.28															
14 1.E -4 *	-7.79	-8.28	-8.32	-8.32	-8.32	-8.32	-8.32	-8.32	-8.32	-8.32	-8.31	-8.31	-8.31	-8.32	
-8.32 -8.28 -7.79															

POT INFORMATION FOR SLICE IZOB = 19

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
16 17 18															
-3 1.E -4 *	-7.79	-8.28	-8.32	-8.32	-8.31	-8.31	-8.32	-8.38	-8.58	-8.92	-9.32	-9.68	-9.84	-9.68	-9.32
-8.31 -8.27 -7.79															
-2 1.E -3 *	-0.83	-0.91	-0.92	-0.92	-0.91	-0.91	-0.93	-0.97	-1.05	-1.18	-1.31	-1.43	-1.47	-1.43	-1.31
-0.91 -0.91 .83															
-1 1.E -3 *	-0.83	-0.92	-0.92	-0.92	-0.92	-0.93	-0.98	-1.15	-1.47	-1.93	-2.43	-2.85	-3.03	-2.85	-2.43
-0.93 -0.91 -0.83															
0 1.E -3 *	-0.83	-0.92	-0.92	-0.92	-0.92	-0.95	-1.12	-1.61	-2.43	-3.78	-5.50	-6.90	-7.44	-6.90	-5.50
-0.95 -0.91 -0.83															
1 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.14	-0.26	-0.50	-0.86	-1.25	-1.58	-1.70	-1.58	-1.25
-0.10 -0.09 -0.08															
2 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.11	-0.18	-0.40	-0.93	-1.67	-2.57	-3.44	-3.81	-3.44	-2.57
-0.11 -0.09 -0.08															
3 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.12	-0.20	-0.51	-1.29	-2.56	-4.24	-6.86	-8.50	-6.86	-4.24
-0.11 -0.09 -0.08															
4 1.E -1 *	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.05	-0.13	-0.28	-0.51	-0.91	-1.18	-0.91	-0.51
-0.01 -0.01 -0.01															
5 1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.09	-0.11	-0.17	-0.38	-0.89	-2.26	-3.87	-6.78	-9.13	-6.78	-3.87

```
-0.11 -0.09 -0.08
 6 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.09 -0.10 -0.14 -0.24 -0.49 -1.43 -2.41 -3.67 -4.68 -3.67 -2.41
-0.10 -0.09 -0.08
 7 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.09 -0.10 -0.11 -0.16 -0.29 -0.66 -1.40 -1.89 -1.93 -1.89 -1.40
-0.10 -0.09 -0.08
 8 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.93 -0.95 -1.02 -1.24 -1.76 -2.72 -4.21 -5.67 -6.30 -5.67 -4.21
-0.95 -0.92 -0.83
 9 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.93 -0.93 -0.96 -1.04 -1.20 -1.47 -1.81 -2.11 -2.22 -2.11 -1.81
-0.93 -0.92 -0.83
10 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.93 -0.93 -0.93 -0.95 -0.99 -1.05 -1.12 -1.17 -1.20 -1.17 -1.12
-0.93 -0.92 -0.83
11 1.E -4 *    -8.32 -9.16 -9.25 -9.26 -9.26 -9.26 -9.27 -9.29 -9.36 -9.47 -9.59 -9.70 -9.75 -9.70 -9.59
-9.25 -9.17 -8.32
12 1.E -4 *    -8.32 -9.16 -9.24 -9.25 -9.25 -9.25 -9.25 -9.25 -9.25 -9.26 -9.27 -9.30 -9.31 -9.30 -9.27
-9.24 -9.16 -8.32
13 1.E -4 *    -8.28 -9.09 -9.16 -9.16 -9.17 -9.17 -9.17 -9.17 -9.17 -9.16 -9.16 -9.16 -9.15 -9.16 -9.16
-9.16 -9.09 -8.28
14 1.E -4 *    -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   20

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                          -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -3 *    -0.76 -0.83 -0.83 -0.83 -0.83 -0.83 -0.84 -0.86 -0.89 -0.95 -1.02 -1.07 -1.09 -1.07 -1.02
-0.83 -0.83 -0.78
-2 1.E -3 *    -0.83 -0.91 -0.92 -0.92 -0.92 -0.92 -0.95 -1.03 -1.15 -1.33 -1.52 -1.67 -1.73 -1.67 -1.52
-0.92 -0.91 -0.83
-1 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.93 -0.95 -1.03 -1.25 -1.64 -2.24 -2.89 -3.42 -3.65 -3.42 -2.89
-0.95 -0.92 -0.83
 0 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.94 -0.99 -1.21 -1.78 -2.86 -4.49 -6.39 -7.95 -8.58 -7.95 -6.39
-0.99 -0.93 -0.83
 1 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.09 -0.11 -0.15 -0.30 -0.57 -0.95 -1.37 -1.70 -1.83 -1.70 -1.37
-0.11 -0.09 -0.08
 2 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.12 -0.20 -0.45 -0.95 -1.67 -2.54 -3.39 -3.77 -3.39 -2.54
-0.12 -0.10 -0.08
 3 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.13 -0.23 -0.56 -1.27 -2.41 -3.93 -6.10 -7.42 -6.10 -3.94
-0.13 -0.10 -0.08
 4 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.13 -0.24 -0.58 -1.33 -2.61 -4.36 -7.49 -9.67 -7.49 -4.36
-0.13 -0.10 -0.08
 5 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.12 -0.20 -0.46 -0.99 -1.88 -3.30 -5.70 -7.20 -5.70 -3.30
-0.12 -0.10 -0.08
 6 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.11 -0.16 -0.29 -0.57 -1.04 -1.92 -3.07 -3.61 -3.07 -1.92
-0.11 -0.10 -0.08
 7 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.10 -0.13 -0.19 -0.33 -0.58 -1.01 -1.49 -1.71 -1.49 -1.01
-0.10 -0.09 -0.08
 8 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.94 -0.98 -1.10 -1.42 -2.03 -3.10 -4.93 -6.57 -7.07 -6.57 -4.93
-0.98 -0.93 -0.83
 9 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.94 -0.94 -1.00 -1.19 -1.57 -2.24 -3.20 -4.62 -5.26 -4.62 -3.20
-0.94 -0.92 -0.83
10 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.93 -0.94 -0.96 -1.04 -1.20 -1.49 -1.96 -2.59 -2.87 -2.59 -1.96
-0.94 -0.92 -0.83
11 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.93 -0.93 -0.94 -0.96 -0.99 -1.06 -1.16 -1.30 -1.36 -1.30 -1.16
-0.93 -0.92 -0.83
12 1.E -4 *    -8.32 -9.16 -9.24 -9.25 -9.25 -9.26 -9.27 -9.29 -9.36 -9.47 -9.59 -9.70 -9.75 -9.70 -9.59
-9.25 -9.16 -8.32
13 1.E -4 *    -8.28 -9.09 -9.16 -9.16 -9.17 -9.17 -9.17 -9.17 -9.17 -9.16 -9.16 -9.16 -9.15 -9.16 -9.16
-9.16 -9.09 -8.28
14 1.E -4 *    -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   21

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                          -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -3 *    -0.78 -0.83 -0.83 -0.83 -0.83 -0.85 -0.87 -0.92 -1.00 -1.11 -1.25 -1.36 -1.37 -1.34 -1.25
-0.84 -0.83 -0.78
-2 1.E -3 *    -0.83 -0.91 -0.92 -0.92 -0.93 -0.96 -1.04 -1.19 -1.43 -1.73 -2.04 -2.26 -2.33 -2.26 -2.04
-0.96 -0.92 -0.83
-1 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.95 -1.02 -1.22 -1.64 -2.28 -3.11 -3.96 -4.64 -4.94 -4.64 -3.96
-1.02 -0.94 -0.84
 0 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.11 -0.16 -0.25 -0.40 -0.61 -0.83 -1.00 -1.07 -1.00 -0.83
-0.11 -0.10 -0.08
 1 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.13 -0.21 -0.40 -0.71 -1.13 -1.56 -1.89 -2.04 -1.89 -1.56
-0.13 -0.10 -0.09
 2 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.15 -0.27 -0.53 -1.00 -1.65 -2.44 -3.23 -3.62 -3.23 -2.44
-0.15 -0.11 -0.09
 3 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.16 -0.31 -0.62 -1.21 -2.12 -3.31 -4.87 -5.76 -4.87 -3.31
-0.16 -0.11 -0.09
 4 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.17 -0.32 -0.69 -1.36 -2.40 -3.75 -5.68 -6.91 -5.68 -3.75
-0.17 -0.11 -0.09
 5 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.16 -0.28 -0.59 -1.14 -1.98 -3.17 -4.71 -5.57 -4.71 -3.17
-0.16 -0.11 -0.09
 6 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.14 -0.22 -0.39 -0.72 -1.24 -2.06 -2.92 -3.27 -2.92 -2.06
-0.14 -0.11 -0.09
 7 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.12 -0.17 -0.27 -0.44 -0.73 -1.19 -1.59 -1.72 -1.59 -1.19
-0.12 -0.10 -0.08
 8 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -1.01 -1.32 -1.83 -2.72 -4.13 -6.21 -7.94 -8.39 -7.94 -6.21
-1.01 -0.96 -0.84
 9 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.95 -0.99 -1.11 -1.35 -1.74 -2.32 -3.00 -3.65 -3.96 -3.65 -3.00
-0.99 -0.94 -0.84
10 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.95 -1.00 -1.10 -1.24 -1.44 -1.67 -1.86 -1.93 -1.86 -1.67
-0.99 -0.92 -0.83
11 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.94 -0.96 -1.01 -1.03 -1.11 -1.18 -1.25 -1.27 -1.25 -1.18
-0.96 -0.92 -0.83
12 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.94 -0.96 -0.98 -0.99 -1.00 -1.02 -1.02 -1.02 -1.02 -1.00
-0.96 -0.92 -0.83
13 1.E -4 *    -8.32 -9.16 -9.24 -9.25 -9.25 -9.26 -9.27 -9.29 -9.36 -9.47 -9.59 -9.70 -9.75 -9.70 -9.59
-9.25 -9.16 -8.32
14 1.E -4 *    -8.28 -9.09 -9.16 -9.16 -9.17 -9.17 -9.17 -9.17 -9.17 -9.16 -9.16 -9.16 -9.15 -9.16 -9.16
-9.16 -9.09 -8.28
15 1.E -4 *    -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   22

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                          -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10    11
  16    17    18
-3 1.E -3 *    -0.78 -0.83 -0.83 -0.83 -0.83 -0.85 -0.87 -0.92 -1.00 -1.11 -1.25 -1.36 -1.37 -1.34 -1.25
-0.84 -0.83 -0.78
-2 1.E -3 *    -0.83 -0.91 -0.92 -0.92 -0.93 -0.96 -1.04 -1.19 -1.43 -1.73 -2.04 -2.26 -2.33 -2.26 -2.04
-0.96 -0.92 -0.83
-1 1.E -3 *    -0.83 -0.92 -0.92 -0.93 -0.95 -1.02 -1.22 -1.64 -2.28 -3.11 -3.96 -4.64 -4.94 -4.64 -3.96
-1.02 -0.94 -0.84
 0 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.11 -0.16 -0.25 -0.40 -0.61 -0.83 -1.00 -1.07 -1.00 -0.83
-0.11 -0.10 -0.08
 1 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.13 -0.21 -0.40 -0.71 -1.13 -1.56 -1.89 -2.04 -1.89 -1.56
-0.13 -0.10 -0.09
 2 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.15 -0.27 -0.53 -1.00 -1.65 -2.44 -3.23 -3.62 -3.23 -2.44
-0.15 -0.11 -0.09
 3 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.16 -0.31 -0.62 -1.21 -2.12 -3.31 -4.87 -5.76 -4.87 -3.31
-0.16 -0.11 -0.09
 4 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.17 -0.32 -0.69 -1.36 -2.40 -3.75 -5.68 -6.91 -5.68 -3.75
-0.17 -0.11 -0.09
 5 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.16 -0.28 -0.59 -1.14 -1.98 -3.17 -4.71 -5.57 -4.71 -3.17
-0.16 -0.11 -0.09
 6 1.E -2 *    -0.08 -0.09 -0.09 -0.10 -0.11 -0.14 -0.22 -0.39 -0.72 -1.24 -2.06 -2.92 -3.27 -2.92 -2.06
-0.14 -0.11 -0.09
 7 1.E -2 *    -0.08 -0.09 -0.09 -0.09 -0.10 -0.12 -0.17 -0.27 -0.44 -0.73 -1.19 -1.59 -1.72 -1.59 -1.19
-0.12 -0.10 -0.08
 8 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -1.01 -1.32 -1.83 -2.72 -4.13 -6.21 -7.94 -8.39 -7.94 -6.21
-1.01 -0.96 -0.84
 9 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.95 -0.99 -1.11 -1.35 -1.74 -2.32 -3.00 -3.65 -3.96 -3.65 -3.00
-0.99 -0.94 -0.84
10 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.95 -1.00 -1.10 -1.24 -1.44 -1.67 -1.86 -1.93 -1.86 -1.67
-0.99 -0.92 -0.83
11 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.94 -0.96 -1.01 -1.03 -1.11 -1.18 -1.25 -1.27 -1.25 -1.18
-0.96 -0.92 -0.83
12 1.E -3 *    -0.83 -0.92 -0.93 -0.93 -0.93 -0.94 -0.96 -0.98 -0.99 -1.00 -1.02 -1.02 -1.02 -1.02 -1.00
-0.96 -0.92 -0.83
13 1.E -4 *    -8.32 -9.16 -9.24 -9.25 -9.25 -9.26 -9.27 -9.29 -9.36 -9.47 -9.59 -9.70 -9.75 -9.70 -9.59
-9.25 -9.16 -8.32
14 1.E -4 *    -8.28 -9.09 -9.16 -9.16 -9.17 -9.17 -9.17 -9.17 -9.17 -9.16 -9.16 -9.16 -9.15 -9.16 -9.16
-9.16 -9.09 -8.28
15 1.E -4 *    -7.79 -8.28 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.32 -8.33 -8.33 -8.33 -8.33 -8.33 -8.33
-8.32 -8.28 -7.79

                    POT  INFORMATION FOR SLICE IZOB =   23
```

Micro Shuttle POLAR 1.1 Results

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	16	17	18
-3	1.E -3 *	-0.78	-0.83	-0.83	-0.83	-0.84	-0.86	-0.90	-0.97	-1.07	-1.23	-1.40	-1.51	-1.55	-1.51	-1.40	-0.86	-0.83	-0.78
-2	1.E -3 *	-0.83	-0.91	-0.92	-0.92	-0.93	-0.99	-1.10	-1.31	-1.62	-2.00	-2.35	-2.59	-2.66	-2.59	-2.35	-0.99	-0.93	-0.83
-1	1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.97	-1.08	-1.36	-1.89	-2.64	-3.58	-4.51	-5.22	-5.53	-5.22	-4.51	-1.08	-0.97	-0.84
0	1.E -2 *	-0.08	-0.09	-0.09	-0.09	-0.10	-0.12	-0.18	-0.29	-0.46	-0.69	-0.91	-1.08	-1.15	-1.08	-0.91	-0.12	-0.10	-0.09
1	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.11	-0.14	-0.24	-0.45	-0.78	-1.19	-1.62	-1.95	-2.08	-1.95	-1.62	-0.14	-0.11	-0.09
2	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.11	-0.17	-0.30	-0.58	-1.04	-1.67	-2.39	-3.13	-3.49	-3.13	-2.39	-0.17	-0.11	-0.09
3	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.12	-0.18	-0.34	-0.66	-1.24	-2.10	-3.16	-4.49	-5.24	-4.49	-3.16	-0.18	-0.12	-0.09
4	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.12	-0.19	-0.35	-0.73	-1.39	-2.37	-3.56	-5.16	-6.13	-5.16	-3.56	-0.19	-0.12	-0.09
5	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.12	-0.18	-0.32	-0.64	-1.20	-2.01	-3.11	-4.43	-5.13	-4.43	-3.11	-0.18	-0.12	-0.09
6	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.11	-0.15	-0.25	-0.45	-0.80	-1.33	-2.12	-2.91	-3.23	-2.91	-2.12	-0.15	-0.11	-0.09
7	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.11	-0.13	-0.19	-0.31	-0.50	-0.81	-1.27	-1.65	-1.77	-1.65	-1.27	-0.13	-0.10	-0.09
8	1.E -3 *	-0.83	-0.92	-0.93	-0.94	-1.00	-1.14	-1.47	-2.10	-3.12	-4.67	-6.98	-8.68	-9.02	-8.68	-6.98	-1.14	-0.99	-0.85
9	1.E -3 *	-0.83	-0.92	-0.93	-0.93	-0.96	-1.04	-1.19	-1.50	-1.97	-2.66	-3.47	-4.19	-4.51	-4.19	-3.47	-1.03	-0.95	-0.84
10	1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.94	-0.97	-1.05	-1.17	-1.36	-1.62	-1.93	-2.16	-2.24	-2.16	-1.93	-0.97	-0.93	-0.83
11	1.E -3 *	-0.83	-0.92	-0.92	-0.93	-0.93	-0.94	-0.97	-1.01	-1.09	-1.19	-1.30	-1.38	-1.41	-1.38	-1.30	-0.94	-0.92	-0.83
12	1.E -3 *	-0.83	-0.92	-0.92	-0.92	-0.92	-0.93	-0.94	-0.95	-0.98	-1.01	-1.05	-1.08	-1.09	-1.08	-1.05	-0.93	-0.92	-0.83
13	1.E -4 *	-8.27	-9.09	-9.15	-9.16	-9.16	-9.17	-9.18	-9.20	-9.28	-9.36	-9.45	-9.54	-9.57	-9.54	-9.45	-9.16	-9.09	-8.27
14	1.E -4 *	-7.79	-8.27	-8.31	-8.32	-8.32	-8.32	-8.32	-8.32	-8.33	-8.34	-8.37	-8.39	-8.39	-8.39	-8.37	-8.31	-8.27	-7.79

POT INFORMATION FOR SLICE IZOB = 24

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	16	17	18
-3	1.E -3 *	-0.78	-0.82	-0.83	-0.83	-0.84	-0.87	-0.93	-1.03	-1.17	-1.37	-1.57	-1.70	-1.74	-1.70	-1.57	-0.87	-0.84	-0.78
-2	1.E -3 *	-0.82	-0.90	-0.91	-0.92	-0.94	-1.02	-1.18	-1.45	-1.84	-2.28	-2.66	-2.92	-3.01	-2.92	-2.66	-1.07	-0.94	-0.83
-1	1.E -3 *	-0.83	-0.91	-0.92	-0.94	-1.00	-1.16	-1.51	-2.15	-3.03	-4.09	-5.08	-5.79	-6.07	-5.79	-5.08	-1.16	-0.99	-0.85
0	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.11	-0.14	-0.20	-0.33	-0.52	-0.76	-0.99	-1.16	-1.22	-1.16	-0.99	-0.14	-0.11	-0.09
1	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.12	-0.16	-0.27	-0.48	-0.81	-1.23	-1.64	-1.97	-2.11	-1.97	-1.64	-0.16	-0.11	-0.09
2	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.12	-0.19	-0.33	-0.60	-1.05	-1.63	-2.31	-3.00	-3.33	-3.00	-2.31	-0.19	-0.12	-0.09
3	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.13	-0.20	-0.37	-0.69	-1.24	-2.01	-2.95	-4.08	-4.70	-4.08	-2.95	-0.20	-0.13	-0.09
4	1.E -2 *	-0.08	-0.09	-0.10	-0.11	-0.13	-0.21	-0.38	-0.75	-1.38	-2.25	-3.27	-4.58	-5.36	-4.58	-3.27	-0.21	-0.13	-0.10
5	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.13	-0.20	-0.35	-0.68	-1.23	-1.98	-2.93	-4.05	-4.64	-4.05	-2.93	-0.20	-0.13	-0.09
6	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.12	-0.17	-0.29	-0.51	-0.87	-1.40	-2.12	-2.82	-3.10	-2.82	-2.12	-0.17	-0.12	-0.09
7	1.E -2 *	-0.08	-0.09	-0.09	-0.10	-0.11	-0.15	-0.21	-0.37	-0.57	-0.89	-1.32	-1.67	-1.79	-1.67	-1.32	-0.14	-0.11	-0.09
8	1.E -3 *	-0.83	-0.91	-0.92	-0.95	-1.03	-1.23	-1.62	-2.37	-3.58	-5.29	-7.54	-9.24	-9.70	-9.24	-7.54	-1.23	-1.02	-0.86
9	1.E -3 *	-0.83	-0.91	-0.92	-0.93	-0.98	-1.08	-1.28	-1.66	-2.21	-3.03	-3.93	-4.65	-4.98	-4.65	-3.93	-1.08	-0.97	-0.84
10	1.E -3 *	-0.83	-0.91	-0.92	-0.92	-0.94	-0.99	-1.09	-1.25	-1.49	-1.82	-2.17	-2.43	-2.51	-2.43	-2.17	-0.99	-0.93	-0.83
11	1.E -3 *	-0.83	-0.91	-0.92	-0.92	-0.93	-0.94	-0.98	-1.05	-1.15	-1.28	-1.42	-1.52	-1.55	-1.52	-1.42	-0.94	-0.92	-0.83
12	1.E -3 *	-0.83	-0.91	-0.92	-0.92	-0.92	-0.92	-0.94	-0.96	-1.00	-1.05	-1.09	-1.14	-1.16	-1.14	-1.09	-0.92	-0.91	-0.83
13	1.E -4 *	-8.24	-9.03	-9.09	-9.09	-9.09	-9.10	-9.13	-9.19	-9.32	-9.44	-9.60	-9.75	-9.79	-9.75	-9.60	-9.10	-9.04	-8.24
14	1.E -4 *	-7.77	-8.24	-8.27	-8.28	-8.28	-8.28	-8.28	-8.29	-8.30	-8.34	-8.39	-8.43	-8.43	-8.43	-8.39	-8.28	-8.24	-7.77

POT INFORMATION FOR SLICE IZOB = 25

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	16	17	18
-3	1.E -3 *	-0.75	-0.78	-0.78	-0.78	-0.80	-0.83	-0.91	-1.02	-1.19	-1.41	-1.63	-1.77	-1.82	-1.77	-1.63	-0.83	-0.80	-0.76
-2	1.E -3 *	-0.78	-0.82	-0.83	-0.84	-0.87	-0.96	-1.15	-1.46	-1.86	-2.31	-2.71	-2.97	-3.07	-2.97	-2.71	-0.96	-0.87	-0.79
-1	1.E -3 *	-0.78	-0.83	-0.84	-0.86	-0.94	-1.12	-1.52	-2.20	-3.08	-4.10	-5.05	-5.70	-5.96	-5.70	-5.05	-1.12	-0.93	-0.81
0	1.E -2 *	-0.08	-0.08	-0.08	-0.09	-0.10	-0.14	-0.20	-0.33	-0.52	-0.74	-0.95	-1.11	-1.17	-1.11	-0.95	-0.14	-0.10	-0.08
1	1.E -2 *	-0.08	-0.08	-0.09	-0.09	-0.11	-0.16	-0.27	-0.47	-0.77	-1.15	-1.52	-1.81	-1.94	-1.81	-1.52	-0.16	-0.11	-0.09
2	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.12	-0.19	-0.32	-0.57	-0.95	-1.46	-2.05	-2.63	-2.93	-2.63	-2.05	-0.19	-0.12	-0.09
3	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.13	-0.20	-0.35	-0.63	-1.10	-1.74	-2.50	-3.42	-3.93	-3.42	-2.50	-0.20	-0.13	-0.09
4	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.13	-0.21	-0.37	-0.70	-1.25	-1.97	-2.79	-3.79	-4.38	-3.79	-2.79	-0.21	-0.13	-0.09
5	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.13	-0.20	-0.35	-0.66	-1.15	-1.80	-2.59	-3.44	-3.87	-3.44	-2.59	-0.20	-0.13	-0.09
6	1.E -2 *	-0.08	-0.08	-0.09	-0.10	-0.12	-0.18	-0.29	-0.50	-0.84	-1.32	-1.95	-2.49	-2.69	-2.49	-1.95	-0.18	-0.12	-0.09
7	1.E -2 *	-0.08	-0.08	-0.09	-0.09	-0.11	-0.15	-0.22	-0.35	-0.56	-0.86	-1.26	-1.54	-1.62	-1.54	-1.26	-0.15	-0.11	-0.09
8	1.E -3 *	-0.78	-0.83	-0.84	-0.88	-0.97	-1.20	-1.62	-2.39	-3.62	-5.27	-7.32	-8.79	-9.16	-8.79	-7.32	-1.20	-0.97	-0.83
9	1.E -3 *	-0.78	-0.83	-0.84	-0.86	-0.91	-1.02	-1.24	-1.67	-2.27	-3.09	-3.93	-4.62	-4.96	-4.62	-3.93	-1.02	-0.91	-0.81
10	1.E -3 *	-0.78	-0.83	-0.83	-0.84	-0.87	-0.92	-1.03	-1.22	-1.51	-1.86	-2.19	-2.45	-2.54	-2.45	-2.19	-0.92	-0.86	-0.79
11	1.E -3 *	-0.78	-0.83	-0.83	-0.83	-0.85	-0.87	-0.92	-0.99	-1.11	-1.27	-1.42	-1.53	-1.55	-1.53	-1.42	-0.87	-0.84	-0.78
12	1.E -3 *	-0.78	-0.83	-0.83	-0.83	-0.83	-0.84	-0.87	-0.90	-0.94	-1.00	-1.04	-1.10	-1.14	-1.10	-1.04	-0.84	-0.83	-0.78
13	1.E -4 *	-7.77	-8.24	-8.27	-8.28	-8.28	-8.29	-8.35	-8.45	-8.59	-8.74	-8.98	-9.18	-9.22	-9.18	-8.98	-8.29	-8.24	-7.77
14	1.E -4 *	-7.55	-7.77	-7.79	-7.79	-7.79	-7.80	-7.80	-7.81	-7.85	-7.90	-7.98	-8.04	-8.05	-8.04	-7.98	-7.79	-7.77	-7.55

END OF POT DATA.

THE ENTIRE QUSD DATA IS AS FOLLOWS

QUSD INFORMATION FOR SLICE IZOB = -3

-->X IS HORIZONTAL, Y IS VERTICAL<--

	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	15	16	17	18	19
-4	1.E -6 *	-1.42	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.42	0.00
-3	1.E -6 *	-1.25	-0.91	-0.90	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	-0.90	-0.91	-1.25 0.00
-2	1.E -6 *	-1.25	-0.90	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.86	-0.86	-0.87	-0.87	-0.90	-1.25 0.00
-1	1.E -6 *	-1.25	-0.89	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.87	-0.87	-0.89	-1.25 0.00
0	1.E -6 *	-1.25	-0.89	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.87	-0.87	-0.89	-1.25 0.00

Micro Muscle POLAR'1.1 Results

```
 1 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.86 -0.85 -0.86 -0.86 -0.86 -0.86
-0.87 -0.87 -0.89 -1.25  0.00
 2 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.85 -0.86 -0.86 -0.86 -0.86
-0.87 -0.87 -0.89 -1.25  0.00
 3 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.85 -0.85 -0.86 -0.86 -0.85
-0.87 -0.87 -0.89 -1.25  0.00
 4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.85 -0.85 -0.86 -0.86 -0.85
-0.87 -0.87 -0.89 -1.25  0.00
 5 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.85 -0.85 -0.85 -0.85 -0.85
-0.87 -0.87 -0.89 -1.25  0.00
 6 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.85 -0.85 -0.85 -0.85 -0.85
-0.87 -0.87 -0.89 -1.25  0.00
 7 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.86 -0.85 -0.85 -0.85 -0.86
-0.87 -0.87 -0.89 -1.25  0.00
 8 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.97 -0.87 -0.87 -0.86 -0.86 -0.86 -0.86 -0.86
-0.87 -0.87 -0.89 -1.25  0.00
 9 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
10 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
11 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
12 1.E -6 *   -1.25 -0.90 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.90 -1.25  0.00
13 1.E -6 *   -1.25 -0.91 -0.90 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89
-0.89 -0.91 -0.91 -1.25  0.00
14 1.E -6 *   -1.42 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25
-1.25 -1.25 -1.25 -1.42  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = -2

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.91 -0.90 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89
-0.89 -0.90 -0.91 -1.25  0.00
-3 1.E -7 *   -9.12 -2.04 -1.58 -1.55 -1.55 -1.55 -1.54 -1.54 -1.52 -1.50 -1.48 -1.45 -1.44 -1.44 -1.45
-1.55 -1.58 -2.04 -9.12  0.00
-2 1.E -7 *   -8.96 -1.58 -0.98 -0.94 -0.94 -0.93 -0.93 -0.91 -0.86 -0.76 -0.55 -0.21  0.08  0.08 -0.21
-0.93 -0.98 -1.58 -8.96  0.00
-1 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.86 -0.82 -0.69 -0.24  0.78  2.14  3.07  3.07  2.14
-0.87 -0.93 -1.55 -8.95  0.00
 0 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.87 -0.84 -0.77 -0.40  0.97  3.69  7.11  9.78  9.78  7.11
-0.84 -0.92 -1.55 -8.95  0.00
 1 1.E -6 *   -0.89 -0.15 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07  0.01  0.28  0.80  1.47  1.93  1.93  1.47
-0.08 -0.09 -0.15 -0.89  0.00
 2 1.E -6 *   -0.89 -0.15 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07  0.08  0.45  1.24  2.17  2.83  2.83  2.17
-0.08 -0.09 -0.15 -0.89  0.00
 3 1.E -6 *   -0.89 -0.15 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07  0.11  0.52  1.44  2.43  3.24  3.24  2.43
-0.08 -0.09 -0.15 -0.89  0.00
 4 1.E -6 *   -0.89 -0.15 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07  0.08  0.44  1.24  2.18  2.84  2.84  2.18
-0.08 -0.09 -0.15 -0.89  0.00
 5 1.E -6 *   -0.89 -0.15 -0.09 -0.09 -0.09 -0.09 -0.08 -0.07  0.02  0.29  0.81  1.49  1.95  1.95  1.49
-0.08 -0.09 -0.15 -0.89  0.00
 6 1.E -6 *   -0.89 -0.15 -0.09 -0.09 -0.08 -0.07 -0.05 -0.36  1.04  3.09  7.22  9.92  9.92  7.22
-0.84 -0.92 -1.55 -8.95  0.00
 7 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.86 -0.80 -0.65 -0.18  0.86  2.25  3.18  3.18  2.25
-0.86 -0.93 -1.55 -8.95  0.00
 8 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.88 -0.87 -0.84 -0.79 -0.67 -0.44 -0.09  0.21  0.21 -0.09
-0.88 -0.94 -1.55 -8.95  0.00
 9 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.87 -0.85 -0.81 -0.77 -0.74 -0.73 -0.73 -0.74
-0.86 -0.94  1.55 -8.95  0.00
10 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.89 -0.88 -0.88 -0.87 -0.86 -0.85 -0.83 -0.82 -0.82 -0.83
-0.89 -0.94 -1.55 -8.95  0.00
11 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.89 -0.89 -0.89 -0.88 -0.88 -0.88 -0.87 -0.87 -0.87 -0.88
-0.89 -0.94 -1.55 -8.95  0.00
12 1.E -7 *   -8.96 -1.58 -0.98 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94 -0.93 -0.93 -0.93 -0.93 -0.93 -0.93
-0.98 -0.98 -1.58 -8.96  0.00
13 1.E -7 *   -9.12 -2.04 -1.58 -1.55 -1.55 -1.55 -1.55 -1.55 -1.55 -1.55 -1.55 -1.55 -1.55 -1.55 -1.55
-1.55 -1.58 -2.04 -9.12  0.00
14 1.E -6 *   -1.25 -0.91 -0.90 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89
-0.89 -0.90 -0.91 -1.25  0.00
```

15 1.E -1 * 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00

QUSD INFORMATION FOR SLICE IZOB = -1

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.90 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.90 -1.25  0.00
-3 1.E -7 *   -8.96 -1.58 -0.98 -0.94 -0.94 -0.93 -0.93 -0.91 -0.87 -0.83 -0.78 -0.75 -0.73 -0.73 -0.75
-0.93 -0.98 -1.58 -8.96  0.00
-2 1.E -7 *   -8.73 -0.98 -0.22 -0.16 -0.15 -0.15 -0.12 -0.07  0.11  0.70  1.96  3.51  4.52  4.52  3.51
-0.13 -0.21 -0.98 -8.73  0.00
-1 1.E -6 *   -0.87 -0.09 -0.02 -0.01 -0.01 -0.01  0.00  0.01  0.11  0.46  1.16  2.06  2.79  2.79  2.06
 0.00 -0.01 -0.09 -0.87  0.00
 0 1.E -6 *   -0.87 -0.09 -0.02 -0.01 -0.01 -0.01  0.00  0.04  0.40  1.50  3.63  6.28  7.93  7.93  6.28
 0.00 -0.01 -0.09 -0.87  0.00
 1 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.09  0.32  0.76  1.25  1.61  1.61  1.25
 0.00  0.00 -0.01 -0.09  0.00
 2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.14  0.51  1.14  1.88  2.40  2.40  1.88
 0.00  0.00 -0.01 -0.09  0.00
 3 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.16  0.60  1.29  2.21  2.72  2.72  2.21
 0.00  0.00 -0.01 -0.09  0.00
 4 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.15  0.52  1.17  1.94  2.47  2.47  1.94
 0.00  0.00 -0.01 -0.09  0.00
 5 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.35  0.83  1.33  1.73  1.73  1.33
 0.00  0.00 -0.01 -0.09  0.00
 6 1.E -6 *   -0.87 -0.09 -0.02 -0.01 -0.01  0.00  0.01  0.05  0.47  1.73  4.17  7.25  9.12  9.12  7.25
 0.01 -0.01 -0.09 -0.87  0.00
 7 1.E -6 *   -0.87 -0.09 -0.02 -0.01 -0.01 -0.01  0.00  0.02  0.15  0.62  1.52  2.66  3.59  3.59  2.66
 0.00 -0.01 -0.09 -0.87  0.00
 8 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.07 -0.04  0.04  0.32  1.35  3.63  6.48  8.32  8.32  6.48
-0.05 -0.14 -0.93 -8.72  0.00
 9 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.07 -0.04  0.03  0.15  0.39  0.76  1.07  1.07  0.76
-0.07 -0.15 -0.94 -8.72  0.00
10 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.07 -0.05 -0.02  0.02  0.05  0.07  0.07  0.05
-0.08 -0.15 -0.94 -8.72  0.00
11 1.E -7 *   -8.72 -0.94 -0.16 -0.09 -0.09 -0.09 -0.09 -0.08 -0.08 -0.07 -0.06 -0.05 -0.05 -0.05 -0.05
-0.09 -0.16 -0.94 -8.72  0.00
12 1.E -7 *   -8.73 -0.98 -0.22 -0.16 -0.15 -0.15 -0.15 -0.15 -0.15 -0.15 -0.15 -0.15 -0.15 -0.15 -0.15
-0.16 -0.22 -0.98 -8.73  0.00
13 1.E -7 *   -8.96 -1.58 -0.98 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94 -0.94
-0.94 -0.98 -1.58 -8.96  0.00
14 1.E -6 *   -1.25 -0.90 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.90 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 0

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.86 -0.86 -0.86
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -6 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.87 -0.83 -0.76 -0.69 -0.63 -0.58 -0.57 -0.57 -0.58
-0.87 -0.94 -1.55 -8.95  0.00
-2 1.E -6 *   -0.87 -0.09 -0.02 -0.01 -0.01 -0.01  0.00  0.01  0.09  0.31  0.69  1.12  1.45  1.45  1.12
 0.00  0.01 -0.09 -0.87  0.00
-1 1.E -6 *   -0.87 -0.09 -0.02 -0.01 -0.01 -0.01  0.00  0.01  0.08  0.53  1.83  4.26  7.11  8.75  8.75  7.11
 0.01 -0.01 -0.09 -0.87  0.00
 0 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.17  0.59  1.57  3.19  4.87  4.87  3.19
 0.00  0.00 -0.01 -0.09  0.00
 1 1.E -4 *   -0.87 -0.09 -0.02 -0.01 -0.01 -0.01  0.00  0.00  0.04  0.13  0.40  0.84  1.10  1.10  0.84
 0.00  0.00 -0.01 -0.09  0.00
 2 1.E -4 *   -0.01 -0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.20  0.73  1.41  1.79  1.79  1.31
 0.00  0.00 -0.01 -0.09  0.00
 3 1.E -4 *   -0.01 -0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.23  0.92  1.44  2.21  2.21  1.44
 0.00  0.00 -0.01 -0.09  0.00
 4 1.E -4 *   -0.01 -0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.21  0.76  1.34  1.83  1.83  1.34
 0.00  0.00 -0.01 -0.09  0.00
 5 1.E -4 *   -0.01 -0.00  0.00  0.00  0.00  0.00  0.00  0.04  0.15  0.44  0.91  1.17  1.17  0.91
```

Micro Shuttle POLAR 1.1 Results

```
 0.00  0.00  0.00 -0.01  0.00
 6 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.20  0.74  1.93  3.71  5.07  5.60  5.07
 0.00  0.00 -0.01 -0.09  0.00
 7 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.27  0.69  1.12  1.38  1.48  1.37
 0.00  0.00 -0.01 -0.09  0.00
 8 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.00  0.01  0.04  0.17  0.65  1.56  2.73  3.37  3.67  2.73
 0.01 -0.01 -0.09 -0.87  0.00
 9 1.E -7 *    -8.70 -0.89 -0.09 -0.02 -0.01  0.00  0.03  0.10  0.28  0.79  1.91  3.39  4.39  4.39  3.39
 0.03 -0.08 -0.89 -8.70  0.00
10 1.E -7 *    -8.70 -0.89 -0.09 -0.02 -0.01 -0.01  0.00  0.03  0.07  0.13  0.20  0.26  0.29  0.29  0.26
 0.00 -0.09 -0.89 -8.70  0.00
11 1.E -7 *    -8.70 -0.89 -0.09 -0.02 -0.02 -0.01 -0.01 -0.01  0.01  0.02  0.05  0.07  0.08  0.08  0.07
-0.02 -0.09 -0.89 -8.70  0.00
12 1.E -7 *    -8.72 -0.94 -0.16 -0.09 -0.09 -0.09 -0.09 -0.09 -0.08 -0.08 -0.08 -0.07 -0.07 -0.07 -0.07
-0.09 -0.16 -0.94 -8.72  0.00
13 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =    1

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.85 -0.85 -0.85 -0.85
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.88 -0.87 -0.84 -0.77 -0.68 -0.57 -0.48 -0.44 -0.41 -0.41 -0.44
-0.84 -0.92 -1.55 -8.95  0.00
-2 1.E -6 *    -0.87 -0.09 -0.02 -0.01 -0.01  0.00  0.00  0.05  0.29  0.85  1.75  2.79  3.42  3.42  2.79
 0.00 -0.01 -0.09 -0.87  0.00
-1 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.03  0.16  0.51  1.07  1.64  2.07  2.07  1.64
 0.00  0.00 -0.01 -0.09  0.00
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.18  0.53  1.04  1.27  1.27  1.04
 0.00  0.00  0.00 -0.01  0.00
 1 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.10  0.45  1.67  4.70  9.48  9.48  4.70
 0.00  0.00  0.00 -0.01  0.00
 2 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.31  1.22  1.71  1.71  1.22
 0.00  0.00  0.00  0.00  0.00
 3 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.10  0.36  1.73  1.76  1.76  1.73
 0.00  0.00  0.00  0.00  0.00
 4 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.09  0.32  1.26  1.75  1.75  1.26
 0.00  0.00  0.00  0.00  0.00
 5 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.20  0.50  1.01  1.01  0.50
 0.00  0.00  0.00  0.00  0.00
 6 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.24  0.79  1.64  1.99  1.99  1.64
 0.00  0.00  0.00 -0.01  0.00
 7 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.04  0.25  0.86  2.14  4.02  5.93  5.93  4.02
 0.01  0.00 -0.01 -0.09  0.00
 8 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.22  0.49  0.84  1.05  1.05  0.84
 0.00  0.00 -0.01 -0.09  0.00
 9 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.00  0.01  0.03  0.09  0.29  0.65  1.06  1.37  1.37  1.06
 0.01 -0.01 -0.09 -0.87  0.00
10 1.E -7 *    -8.70 -0.89 -0.08 -0.01  0.00  0.01  0.03  0.07  0.16  0.26  0.37  0.46  0.50  0.50  0.46
 0.02 -0.08 -0.88 -8.70  0.00
11 1.E -7 *    -8.70 -0.89 -0.09 -0.02 -0.01 -0.01  0.00  0.01  0.03  0.07  0.11  0.15  0.18  0.18  0.15
-0.01 -0.09 -0.89 -8.70  0.00
12 1.E -7 *    -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.08 -0.08 -0.07 -0.06 -0.05 -0.05 -0.05 -0.05
-0.09 -0.15 -0.94 -8.72  0.00
13 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.88 -0.88 -0.88 -0.88 -0.88 -0.88
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =    2

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.84 -0.83 -0.82 -0.82 -0.83
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.88 -0.84 -0.76 -0.62 -0.44 -0.24 -0.07  0.08  0.15  0.15  0.08
-0.77 -0.89 -1.54 -8.94  0.00
-2 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.14  0.36  0.69  1.06  1.30  1.30  1.06
 0.01  0.00 -0.01 -0.09  0.00
-1 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.02  0.18  0.75  1.96  3.82  6.00  7.48  7.48  6.00
 0.02  0.00 -0.01 -0.09  0.00
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.24  0.99  2.32  3.63  4.63  4.63  3.63
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.24  1.35  2.77  2.95  2.95  2.77
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.26  2.82  7.80  7.80  2.82
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.51  1.23  1.23  0.51
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.28  2.92  7.56  7.56  2.92
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.17  0.53  2.70  2.70  0.53
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.16  0.46  1.49  2.05  2.05  1.49
 0.00  0.00  0.00  0.00  0.00
 7 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.18  0.53  1.40  2.25  2.88  2.88  2.25
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.02  0.12  0.46  1.23  2.37  3.63  4.48  4.48  3.63
 0.02  0.00 -0.01 -0.09  0.00
 9 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.01  0.06  0.24  0.79  1.81  3.37  4.85  5.83  5.83  4.85
 0.06  0.00 -0.09 -0.87  0.00
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.85 -0.84 -0.83 -0.82 -0.82 -0.83
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.88 -0.84 -0.77 -0.63 -0.45 -0.25 -0.08  0.07  0.14  0.14  0.07
-0.78 -0.89 -1.55 -8.95  0.00
-2 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.14  0.36  0.69  1.06  1.30  1.30  1.06
 0.01  0.00 -0.01 -0.09  0.00
-1 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.02  0.18  0.75  1.96  3.82  6.00  7.48  7.48  6.00
 0.02  0.00 -0.01 -0.09  0.00
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.24  0.99  2.32  3.63  4.63  4.63  3.63
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.24  1.35  2.77  2.95  2.95  2.77
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.26  2.82  7.80  7.80  2.82
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.51  1.23  1.23  0.51
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.28  2.92  7.56  7.56  2.92
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.17  0.53  2.70  2.70  0.53
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.16  0.46  1.49  2.05  2.05  1.49
 0.00  0.00  0.00  0.00  0.00
 7 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.18  0.53  1.40  2.25  2.88  2.88  2.25
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.02  0.12  0.46  1.23  2.37  3.63  4.48  4.48  3.63
 0.02  0.00 -0.01 -0.09  0.00
 9 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.01  0.06  0.24  0.79  1.81  3.37  4.85  5.83  5.83  4.85
 0.06  0.00 -0.09 -0.87  0.00

                QUSD INFORMATION FOR SLICE IZOB =    3

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.84 -0.83 -0.82 -0.82 -0.83
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.88 -0.84 -0.76 -0.62 -0.44 -0.24 -0.07  0.08  0.15  0.15  0.08
-0.77 -0.89 -1.54 -8.94  0.00
-2 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.14  0.36  0.69  1.06  1.30  1.30  1.06
 0.01  0.00 -0.01 -0.09  0.00
-1 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.02  0.18  0.75  1.96  3.82  6.00  7.48  7.48  6.00
 0.02  0.00 -0.01 -0.09  0.00
 0 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.24  0.99  2.32  3.63  4.63  4.63  3.63
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.24  1.35  2.77  2.95  2.95  2.77
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.26  2.82  7.80  7.80  2.82
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.51  1.23  1.23  0.51
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.28  2.92  7.56  7.56  2.92
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.17  0.53  2.70  2.70  0.53
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.16  0.46  1.49  2.05  2.05  1.49
 0.00  0.00  0.00  0.00  0.00
 7 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.18  0.53  1.40  2.25  2.88  2.88  2.25
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.02  0.12  0.46  1.23  2.37  3.63  4.48  4.48  3.63
 0.02  0.00 -0.01 -0.09  0.00
 9 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.01  0.06  0.24  0.79  1.81  3.37  4.85  5.83  5.83  4.85
 0.06  0.00 -0.09 -0.87  0.00
```

```
10 1.E -7 *   -8.70 -8.89 -8.08 -0.01  0.00  0.03  0.09  0.21  0.38  0.63  0.88  1.12  1.25  1.25  1.12
 0.08 -0.05 -0.88 -8.70  0.00
11 1.E -7 *   -8.70 -8.89 -8.09 -0.01 -0.01  0.00  0.02  0.05  0.12  0.21  0.32  0.42  0.48  0.48  0.47
 0.01 -0.09 -0.89 -8.70  0.00
12 1.E -7 *   -8.72 -8.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.07 -0.06 -0.04 -0.02  0.00  0.01  0.01  0.00
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.89 -0.88 -0.88 -0.88 -0.88 -0.88 -0.88 -0.88 -0.88 -0.88
-0.88 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 4

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.85 -0.84 -0.83 -0.81 -0.81 -0.81 -0.81
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.87 -0.82 -0.71 -0.53 -0.28 -0.03  0.26  0.47  0.61  0.61  0.47
-0.71 -0.87 -1.53 -8.94  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.07  0.24  0.59  1.12  1.71  2.10  2.10  1.71
 0.01  0.00 -0.01 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.12  0.30  0.62  0.98  1.24  1.24  0.98
 0.01  0.00  0.00 -0.01  0.00
 0 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.48  1.76  3.55  6.23  8.19  8.19  6.23
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.12  0.58  2.65  3.99  4.84  4.84  3.99
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.13  0.48  5.15  9.67  9.67  5.15
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.18  0.58  9.68  0.00  0.00  9.68
 0.00  0.00  0.00  0.00  0.00
 4 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.05  0.56  1.30  1.30  0.56
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.12  0.31  0.94  5.47  5.47  0.94
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.11  0.47  1.40  3.23  3.42  3.42  3.23
 0.00  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.41  1.14  2.49  3.65  4.74  4.74  3.65
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.05  0.25  0.88  2.09  3.88  5.80  6.97  6.97  5.80
 0.05  0.00 -0.01 -0.09  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.01  0.13  0.53  1.56  3.27  5.55  7.64  8.98  8.98  7.64
 0.53  0.00 -0.08 -0.87  0.00
10 1.E -7 *   -8.70 -0.89 -0.08 -0.01  0.00  0.05  0.13  0.28  0.52  0.86  1.27  1.67  1.91  1.91  1.67
 0.12 -0.01 -0.09 -0.87  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01 -0.01  0.00  0.03  0.08  0.18  0.31  0.45  0.58  0.66  0.66  0.58
 0.02 -0.01 -0.09 -0.87  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.07 -0.05 -0.02  0.00  0.03  0.05  0.05  0.04
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.88 -0.88 -0.88 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 5

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.85 -0.84 -0.83 -0.81 -0.81 -0.81 -0.81
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.87 -0.82 -0.71 -0.53 -0.28 -0.03  0.26  0.47  0.61  0.61  0.47
-0.71 -0.87 -1.53 -8.94  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.07  0.24  0.59  1.12  1.71  2.10  2.10  1.71
 0.01  0.00 -0.01 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.12  0.30  0.62  0.98  1.24  1.24  0.98
 0.01  0.00  0.00 -0.01  0.00
 0 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.48  1.76  3.55  6.23  8.19  8.19  6.23
 0.01  0.00  0.00 -0.01  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.12  0.58  2.65  3.99  4.84  4.84  3.99
 0.00  0.00  0.00  0.00  0.00
 2 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.13  0.48  5.15  9.67  9.67  5.15
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.18  0.58  9.68  0.00  0.00  9.68
 0.00  0.00  0.00  0.00  0.00
 4 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.05  0.56  1.30  1.30  0.56
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.12  0.31  0.94  5.47  5.47  0.94
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.11  0.47  1.40  3.23  3.42  3.42  3.23
 0.00  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.41  1.14  2.49  3.65  4.74  4.74  3.65
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.05  0.25  0.88  2.09  3.88  5.80  6.97  6.97  5.80
 0.05  0.00 -0.01 -0.09  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.01  0.13  0.53  1.56  3.27  5.55  7.64  8.98  8.98  7.64
 0.53  0.00 -0.08 -0.87  0.00
10 1.E -7 *   -8.70 -0.89 -0.08 -0.01  0.00  0.05  0.13  0.28  0.52  0.86  1.27  1.67  1.91  1.91  1.67
 0.12 -0.01 -0.09 -0.87  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01 -0.01  0.00  0.03  0.08  0.18  0.31  0.45  0.58  0.66  0.66  0.58
 0.02 -0.01 -0.09 -0.87  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.07 -0.05 -0.02  0.00  0.03  0.05  0.05  0.04
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.88 -0.88 -0.88 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 6

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.86 -0.85 -0.84 -0.82 -0.81 -0.79 -0.78 -0.78 -0.78
-0.86 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.94 -0.88 -0.84 -0.75 -0.57 -0.28  0.08  0.53  0.96  1.33  1.55  1.55  1.33
-0.58 -0.88 -1.51 -8.94  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.04  0.17  0.50  1.10  1.98  2.90  3.50  3.50  2.90
 0.04  0.00 -0.01 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.24  0.56  1.07  1.66  2.08  2.08  1.66
 0.02  0.00  0.00 -0.01  0.00
 0 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.13  0.31  0.66  1.13  1.46  1.46  1.13
 0.00  0.00  0.00  0.00  0.00
 1 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.03  0.21  0.36  0.71  1.31  1.31  0.71
 0.00  0.00  0.00  0.00  0.00
 2 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.53  1.04  0.01  0.01  1.04
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.65  0.43  1.19  1.19  0.43
 0.00  0.00  0.00  0.00  0.00
 4 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.65  1.42  1.30  1.30  1.42
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.31  5.28  6.40  4.26  4.26  6.40
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.25  2.01  3.08  4.46  5.22  5.22  4.46
 0.01  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.04  0.19  1.15  2.48  4.73  6.41  7.45  7.45  6.41
 0.04  0.00  0.00 -0.01  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.18  0.39  0.66  0.93  1.09  1.09  0.93
 0.01  0.00  0.00 -0.01  0.00
 9 1.E -3 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.13  0.34  0.64  0.98  1.24  1.36  1.36  1.23
 0.03  0.00 -0.01 -0.09  0.00
10 1.E -2 *   -0.87 -0.09 -0.01  0.00  0.00  0.02  0.09  0.21  0.41  0.83  1.47  2.10  2.72  2.72  2.17
 0.21  0.01 -0.08 -0.87  0.00
11 1.E -2 *   -8.70 -0.89 -0.09 -0.01  0.00  0.02  0.06  0.15  0.29  0.49  0.70  0.89  1.00  1.00  0.89
 0.05  0.06 -0.88 -8.70  0.00
12 1.E -2 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.07 -0.05 -0.03 -0.01  0.00  0.05  0.09  0.12  0.09
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -2 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.88 -0.87 -0.87 -0.87 -0.86 -0.86 -0.86 -0.87
-0.87 -0.94 -1.55 -8.95  0.00
14 1.E -1 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
```

```
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =    7

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.86 -0.85 -0.83 -0.82 -0.80 -0.78 -0.77 -0.77 -0.78
-0.86 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.93 -0.87 -0.83 -0.70 -0.48 -0.14  0.31  0.82  1.33  1.76  1.98  1.98  1.76
-0.49 -0.76 -1.49 -8.93  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.01  0.06  0.24  0.66  1.36  2.30  3.24  3.85  3.85  3.24
 0.06  0.01 -0.01 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.03  0.12  0.32  0.69  1.24  1.84  2.24  2.24  1.84
 0.03  0.00  0.00 -0.01  0.00
 0 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.17  0.41  0.75  1.17  1.47  1.47  1.17
 0.01  0.00  0.00  0.00  0.00
 1 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.25  0.46  0.70  1.02  1.02  0.70
 0.00  0.00  0.00  0.00  0.00
 2 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.55  1.05  1.08  1.08  1.05
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.69  1.50  0.01  0.01  1.50
 0.00  0.00  0.00  0.00  0.00
 4 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.69  1.25  0.06  0.06  1.25
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.39  5.44  6.32  2.06  2.06  6.32
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.32  2.32  3.69  4.65  5.21  5.21  4.65
 0.01  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.05  0.24  1.38  3.04  5.30  6.96  7.84  7.84  6.96
 0.05  0.00  0.00 -0.01  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.22  0.45  0.75  1.03  1.19  1.19  1.03
 0.02  0.00  0.00 -0.01  0.00
 9 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.04  0.16  0.41  0.76  1.12  1.37  1.49  1.49  1.37
 0.04  0.00 -0.01 -0.09  0.00
10 1.E -7 *   -8.70 -0.89 -0.08  0.00  0.03  0.11  0.26  0.55  1.04  1.87  3.10  4.50  5.50  5.50  4.50
 0.25  0.03 -0.85 -8.69  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01  0.00  0.02  0.07  0.18  0.35  0.57  0.81  1.01  1.13  1.13  1.01
 0.07 -0.06 -0.88 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.07 -0.05 -0.02  0.03  0.08  0.13  0.16  0.16  0.13
-0.07 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.88 -0.88 -0.87 -0.86 -0.86 -0.85 -0.85 -0.86
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =    8

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.86 -0.86 -0.84 -0.83 -0.81 -0.79 -0.77 -0.77 -0.77 -0.77
-0.86 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.93 -0.86 -0.80 -0.65 -0.40  0.00  0.52  1.12  1.71  2.17  2.45  2.45  2.17
-0.40 -0.70 -1.46 -8.93  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.02  0.11  0.35  0.87  1.67  2.67  3.62  4.21  4.21  3.62
 0.11  0.02 -0.01 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.01  0.05  0.17  0.42  0.87  1.46  2.05  2.44  2.44  2.05
 0.05  0.01  0.00 -0.01  0.00
 0 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.23  0.51  0.89  1.26  1.48  1.48  1.26
 0.01  0.00  0.00  0.00  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.13  0.67  3.13  5.80  7.37  8.21  8.21  7.37
 0.02  0.00  0.00  0.00  0.00
 2 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.56  0.92  1.05  1.05  0.92
 0.00  0.00  0.00  0.00  0.00
 3 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.16  0.74  7.00  3.12  1.25  1.25  3.12
 0.00  0.00  0.00  0.00  0.00
 4 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.71  1.48  0.92  0.92  1.48
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.42  5.47  6.30  2.08  2.08  6.30
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.36  2.42  3.75  4.68  4.70  4.70  4.68
 0.01  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.05  0.27  1.50  3.36  5.79  7.38  8.23  8.23  7.38
 0.05  0.00  0.00 -0.01  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.24  0.51  0.84  1.14  1.32  1.32  1.14
 0.02  0.00  0.00 -0.01  0.00
 9 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.05  0.18  0.46  0.87  1.31  1.65  1.84  1.84  1.65
 0.05  0.00 -0.01 -0.09  0.00
10 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.01  0.03  0.06  0.13  0.31  0.63  1.02  1.28  1.28  1.02
 0.03  0.00 -0.08 -0.87  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01  0.00  0.02  0.09  0.20  0.40  0.70  1.14  1.69  2.11  2.11  1.69
 0.08 -0.06 -0.88 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.07 -0.04  0.00  0.06  0.12  0.18  0.21  0.21  0.18
-0.07 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.88 -0.87 -0.86 -0.85 -0.84 -0.84 -0.84 -0.84
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =    9

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.86 -0.85 -0.84 -0.82 -0.80 -0.78 -0.77 -0.76 -0.76 -0.77
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.93 -0.85 -0.77 -0.60 -0.32  0.10  0.67  1.36  2.06  2.62  2.94  2.94  2.62
-0.33 -0.65 -1.43 -8.92  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.04  0.18  0.51  1.14  2.08  3.19  4.22  4.84  4.84  4.22
 0.18  0.04  0.00 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.02  0.08  0.24  0.57  1.10  1.79  2.47  2.88  2.88  2.47
 0.08  0.02  0.00 -0.01  0.00
 0 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.11  0.32  0.67  1.11  1.51  1.77  1.77  1.51
 0.02  0.00  0.00  0.00  0.00
 1 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.14  0.37  0.69  1.02  1.09  1.09  1.02
 0.00  0.00  0.00  0.00  0.00
 2 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.29  0.81  0.71  1.01  1.01  0.71
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.32  0.95  1.26  0.01  0.01  1.26
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.20  0.81  7.19  6.89  4.45  4.45  6.89
 0.01  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.44  5.49  6.45  2.24  2.24  6.45
 0.00  0.00  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.07  0.39  2.50  3.91  5.02  5.18  5.18  5.02
 0.02  0.00  0.00  0.00  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.30  1.57  3.60  6.42  8.57  9.65  9.65  8.57
 0.06  0.01  0.00 -0.01  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.09  0.26  0.57  1.00  1.46  1.81  1.81  1.46
 0.02  0.00  0.00 -0.01  0.00
 9 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.05  0.18  0.52  1.06  1.77  2.44  2.76  2.76  2.43
 0.05  0.00 -0.01 -0.09  0.00
10 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.01  0.03  0.07  0.22  0.69  1.62  2.85  3.85  3.85  2.85
 0.03  0.01 -0.08 -0.87  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01  0.00  0.03  0.10  0.23  0.51  1.18  2.53  4.23  5.37  5.37  4.23
 0.09 -0.05 -0.88 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.06 -0.03  0.02  0.09  0.16  0.22  0.25  0.25  0.22
-0.07 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.88 -0.87 -0.85 -0.83 -0.82 -0.81 -0.81 -0.82
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   10

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
```

```
   15    16    17    18    19
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.86 -0.85 -0.84 -0.82 -0.80 -0.78 -0.77 -0.76 -0.76 -0.77
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.55 -0.92 -0.84 -0.74 -0.57 -0.28  0.14  0.77  1.54  2.35  3.04  3.42  3.42  3.04
-0.28 -0.62 -1.40 -8.91  0.00
-2 1.E -5 *    -0.09 -0.01  0.00  0.00  0.01  0.07  0.26  0.68  1.42  2.49  3.77  4.95  5.68  5.68  4.95
 0.26  0.07  0.00 -0.09  0.00
-1 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.03  0.12  0.32  0.73  1.36  2.18  3.00  3.50  3.50  3.00
 0.12  0.03  0.00 -0.01  0.00
 0 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.10  0.41  0.83  1.38  1.89  2.25  2.25  1.89
 0.04  0.01  0.00  0.00  0.00
 1 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.28  0.50  0.80  1.28  1.50  1.50  1.28
 0.01  0.00  0.00  0.00  0.00
 2 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.54  1.06  0.52  0.55  0.55  0.52
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.56  1.22  0.67  0.08  0.08  0.67
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.34  0.93  7.47  6.68  2.85  2.85  6.68
 0.01  0.00  0.00  0.00  0.00
 5 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.09  0.47  5.57  6.81  2.83  2.83  6.81
 0.01  0.00  0.00  0.00  0.00
 6 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.08  0.40  2.56  4.37  6.81  7.47  7.47  6.81
 0.02  0.00  0.00  0.00  0.00
 7 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.16  0.38  0.77  1.24  1.86  1.86  1.24
 0.01  0.00  0.00  0.00  0.00
 8 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.02  0.09  0.28  0.66  1.41  2.43  2.93  2.93  2.43
 0.02  0.00  0.00 -0.01  0.00
 9 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.05  0.18  0.58  1.38  2.81  4.82  6.82  6.81  4.81
 0.04  0.00 -0.01 -0.09  0.00
10 1.E -5 *    -0.87 -0.09 -0.01  0.00  0.00  0.01  0.04  0.08  0.41  1.51  3.79  6.80  8.68  8.67  6.78
 0.03  0.01 -0.08 -0.87  0.00
11 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.00  0.01  0.02  0.08  0.25  0.58  0.98  1.30  1.30  0.98
 0.01 -0.01 -0.09 -0.87  0.00
12 1.E -7 *    -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.06 -0.03  0.03  0.11  0.18  0.23  0.24  0.24  0.23
-0.07 -0.15 -0.94 -8.72  0.00
13 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.87 -0.86 -0.84 -0.81 -0.78 -0.77 -0.77 -0.78
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 11

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.86 -0.85 -0.83 -0.82 -0.80 -0.78 -0.77 -0.76 -0.76 -0.77
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.55 -0.92 -0.83 -0.72 -0.56 -0.29  0.12  0.75  1.61  2.56  3.36  3.83  3.83  3.36
-0.30 -0.61 -1.39 -8.90  0.00
-2 1.E -5 *    -0.09 -0.01  0.00  0.00  0.02  0.11  0.34  0.81  1.61  2.76  4.14  5.47  6.30  6.30  5.47
 0.34  0.10  0.01 -0.09  0.00
-1 1.E -4 *    -0.01  0.00  0.00  0.00  0.01  0.05  0.16  0.40  0.83  1.52  2.45  3.36  3.96  3.96  3.36
 0.16  0.05  0.01 -0.01  0.00
 0 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.24  0.52  0.95  1.54  2.20  2.63  2.63  2.20
 0.08  0.01  0.00  0.00  0.00
 1 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.13  0.34  0.61  0.98  1.43  1.77  1.77  1.43
 0.03  0.00  0.00  0.00  0.00
 2 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.18  2.75  7.84  7.21  9.78  4.01  4.01  9.78
 0.02  0.00  0.00  0.00  0.00
 3 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.28  0.80  1.12  0.34  0.31  0.31  0.34
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.13  0.38  1.00  4.09  6.21  3.92  3.92  6.21
 0.02  0.00  0.00  0.00  0.00
 5 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.10  0.47  5.56  6.79  8.33  8.33  6.79
 0.01  0.00  0.00  0.00  0.00
 6 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.24  0.46  0.89  3.25  3.25  0.89
 0.00  0.00  0.00  0.00  0.00
 7 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.15  0.39  0.89  2.71  3.21  3.21  2.71
 0.01  0.00  0.00  0.00  0.00
 8 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.07  0.21  0.54  1.07  1.07  0.53
 0.00  0.00  0.00  0.00  0.00
 9 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.06  0.18  0.48  0.97  1.24  1.24  0.96
 0.00  0.00  0.00 -0.01  0.00
10 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.27  0.70  1.18  1.56  1.56  1.17
 0.00  0.00 -0.01 -0.09  0.00
11 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.03  0.13  0.46  1.06  1.85  2.40  2.40  1.85
 0.01 -0.01 -0.09 -0.87  0.00
12 1.E -7 *    -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.06 -0.02  0.05  0.12  0.17  0.18  0.18  0.18  0.18
-0.06 -0.15 -0.94 -8.72  0.00
13 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.87 -0.85 -0.82 -0.78 -0.75 -0.73 -0.73 -0.75
-0.88 -0.94 -1.55 -8.95  0.00
14 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 12

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.86 -0.86 -0.85 -0.83 -0.82 -0.80 -0.78 -0.77 -0.77 -0.77 -0.77
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.54 -0.92 -0.82 -0.72 -0.57 -0.35  0.06  0.70  1.62  2.67  3.58  4.12  4.12  3.58
-0.35 -0.62 -1.39 -8.89  0.00
-2 1.E -5 *    -0.09 -0.01  0.00  0.00  0.03  0.12  0.37  0.85  1.62  2.72  4.06  5.38  6.21  6.21  5.38
 0.37  0.12  0.02 -0.09  0.00
-1 1.E -4 *    -0.01  0.00  0.00  0.00  0.01  0.06  0.18  0.42  0.84  1.51  2.41  3.32  3.91  3.91  3.32
 0.18  0.06  0.01 -0.01  0.00
 0 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.26  0.53  0.95  1.51  2.17  2.62  2.62  2.17
 0.10  0.01  0.00  0.00  0.00
 1 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.19  0.36  0.57  1.00  1.50  1.88  1.88  1.50
 0.02  0.00  0.00  0.00  0.00
 2 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.52  1.01  0.93  0.38  0.33  0.33  0.38
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.52  1.04  1.22  0.11  0.00  0.00  0.11
 0.00  0.00  0.00  0.00  0.00
 4 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.04  0.09  0.23  1.39  0.00  0.00  1.39
 0.00  0.00  0.00  0.00  0.00
 5 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.32  0.59  1.08  1.08  0.59
 0.00  0.00  0.00  0.00  0.00
 6 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.17  0.45  1.01  7.99  7.98  1.00
 0.00  0.00  0.00  0.00  0.00
 7 1.E -2 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.09  0.36  2.72  2.72  0.35
 0.00  0.00  0.00  0.00  0.00
 8 1.E -3 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.07  0.26  1.22  1.72  1.72  1.22
 0.00  0.00  0.00  0.00  0.00
 9 1.E -4 *    -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.06  0.20  0.74  1.33  1.83  1.83  1.32
 0.00  0.00  0.00 -0.01  0.00
10 1.E -5 *    -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.09  0.39  0.95  1.65  2.16  2.15  1.64
 0.00  0.00 -0.01 -0.09  0.00
11 1.E -6 *    -0.87 -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.02  0.19  0.64  1.56  2.65  3.43  3.43  2.65
 0.01 -0.01 -0.09 -0.87  0.00
12 1.E -7 *    -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.06 -0.01  0.05  0.11  0.14  0.12  0.09  0.09  0.12
-0.06 -0.15 -0.94 -8.72  0.00
13 1.E -7 *    -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.87 -0.85 -0.81 -0.77 -0.72 -0.70 -0.70 -0.72
-0.88 -0.94 -1.55 -8.95  0.00
14 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *     0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 13

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *    -1.25 -0.89 -0.87 -0.87 -0.86 -0.86 -0.84 -0.84 -0.81 -0.79 -0.78 -0.78 -0.78 -0.78 -0.78
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *    -8.95 -1.54 -0.92 -0.82 -0.74 -0.60 -0.39  0.02  0.70  1.65  2.73  3.69  4.25  4.25  3.69
-0.39 -0.65 -1.40 -8.90  0.00
-2 1.E -5 *    -0.09 -0.01  0.00  0.00  0.03  0.12  0.34  0.76  1.41  2.33  3.45  4.56  5.27  5.27  4.56
 0.34  0.11  0.02 -0.09  0.00
-1 1.E -4 *    -0.01  0.00  0.00  0.00  0.01  0.06  0.16  0.38  0.73  1.28  2.01  2.77  3.26  3.26  2.77
 0.16  0.06  0.01 -0.01  0.00
```

Micro Shuttle POLAR 1.1 Results

```
 0 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.23  0.46  0.80  1.26  1.80  2.17  2.17  1.80
 0.10  0.01  0.00  0.00  0.00
 1 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.19  0.34  0.44  0.74  1.17  1.52  1.52  1.17
 0.02  0.00  0.00  0.00  0.00
 2 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.52  1.01  1.05  0.71  0.31  0.31  0.71
 0.00  0.00  0.00  0.00  0.00
 3 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.52  1.03  1.15  0.28  0.00  0.00  0.28
 0.00  0.00  0.00  0.00  0.00
 4 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.19  0.37  0.64  2.09  3.02  0.00  0.00  3.02
 0.02  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.07  0.27  0.76  5.93  9.95  9.95  5.92
 0.01  0.00  0.00  0.00  0.00
 6 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.08  1.03  1.01  0.08
 0.00  0.00  0.00  0.00  0.00
 7 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.08  0.33  5.05  5.05  0.32
 0.00  0.00  0.00  0.00  0.00
 8 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.06  0.24  1.66  1.63  1.63  1.65
 0.00  0.00  0.00  0.00  0.00
 9 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.19  0.86  1.36  2.16  2.15  1.36
 0.00  0.00  0.00 -0.01  0.00
10 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.10  0.44  1.01  1.85  2.31  2.31  1.84
 0.00  0.00 -0.01 -0.09  0.00
11 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.00  0.01  0.02  0.22  0.70  1.78  2.94  3.88  3.88  2.94
 0.01 -0.01 -0.09 -0.87  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.06 -0.02  0.04  0.10  0.09  0.07  0.02  0.02  0.07
-0.07 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.87 -0.85 -0.81 -0.76 -0.72 -0.69 -0.69 -0.72
-0.88 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   14

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.86 -0.85 -0.84 -0.83 -0.82 -0.80 -0.79 -0.79 -0.79 -0.79
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.92 -0.83 -0.76 -0.64 -0.39  0.07  0.81  1.77  2.80  3.70  4.23  4.23  3.70
-0.40 -0.64 -1.43 -8.91  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.02  0.09  0.27  0.58  1.06  1.71  2.49  3.26  3.75  3.75  3.26
 0.27  0.09  0.01 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.04  0.13  0.29  0.54  0.92  1.41  1.91  2.24  2.24  1.91
 0.13  0.04  0.01 -0.01  0.00
 0 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.07  0.17  0.33  0.55  0.84  1.18  1.41  1.41  1.18
 0.07  0.01  0.00  0.00  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.13  0.35  0.69  1.15  2.40  3.59  4.92  6.73  8.53  8.53  6.73
 0.13  0.02  0.00  0.00  0.00
 2 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.16  2.72  5.28  5.51  4.83  3.68  3.68  4.83
 0.02  0.00  0.00  0.00  0.00
 3 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.27  0.53  0.48  0.51  1.06  1.06  0.51
 0.00  0.00  0.00  0.00  0.00
 4 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.04  0.12  0.42  1.04  1.04  0.42
 0.00  0.00  0.00  0.00  0.00
 5 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.02  0.05  0.13  0.45  3.23  6.54  6.54  3.23
 0.01  0.00  0.00  0.00  0.00
 6 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.19  0.53  5.35  5.35  0.53
 0.00  0.00  0.00  0.00  0.00
 7 1.E -2 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.05  0.26  2.68  2.67  0.26
 0.00  0.00  0.00  0.00  0.00
 8 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.05  0.19  1.13  1.60  1.60  1.13
 0.00  0.00  0.00  0.00  0.00
 9 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.15  0.66  1.21  1.70  1.70  1.21
 0.00  0.00  0.00 -0.01  0.00
10 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.08  0.37  0.89  1.56  2.04  2.03  1.55
 0.00  0.00 -0.01 -0.09  0.00
11 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.00  0.01  0.02  0.18  0.62  1.53  2.62  3.39  3.39  2.62
 0.01 -0.01 -0.09 -0.87  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.06 -0.03  0.02  0.07  0.08  0.05  0.02  0.02  0.05
-0.07 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.87 -0.85 -0.82 -0.78 -0.73  0.71 -0.71 -0.73
-0.88 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   15

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.84 -0.83 -0.82 -0.81 -0.80 -0.80 -0.81
-0.86 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.92 -0.85 -0.79 -0.66 -0.37  0.17  0.98  1.94  2.87  3.56  3.89  3.89  3.56
-0.38 -0.71 -1.45 -8.92  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.06  0.17  0.38  0.68  1.06  1.51  1.92  2.19  2.19  1.92
 0.17  0.05  0.00 -0.09  0.00
-1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.03  0.08  0.19  0.35  0.56  0.82  1.07  1.23  1.23  1.07
 0.08  0.03  0.00 -0.01  0.00
 0 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.03  0.08  0.19  0.34  0.54  1.02  2.08  3.31  4.55  5.85  6.83  6.83  5.85
 0.34  0.07  0.01 -0.01  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.39  1.23  2.13  2.66  2.76  3.08  3.08  2.76
 0.08  0.01  0.00  0.00  0.00
 2 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.02  0.11  0.92  1.75  2.76  4.00  4.99  5.76  5.76  4.99
 0.11  0.02  0.00  0.00  0.00
 3 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.02  0.11  0.92  1.77  2.99  4.95  6.31  6.74  6.74  6.31
 0.11  0.02  0.00  0.00  0.00
 4 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.41  1.27  2.55  4.34  5.98  7.00  6.99  5.97
 0.08  0.01  0.00  0.00  0.00
 5 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.11  0.26  0.64  2.12  4.28  5.95  5.95  4.27
 0.03  0.01  0.00  0.00  0.00
 6 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.07  0.23  0.79  3.09  3.72  3.71  3.08
 0.01  0.00  0.00  0.00  0.00
 7 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.08  0.29  1.31  1.82  1.82  1.31
 0.00  0.00  0.00  0.00  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.08  0.27  1.13  3.97  8.98  8.97  3.95
 0.00  0.00  0.00 -0.01  0.00
 9 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.02  0.09  0.34  0.78  1.04  1.04  0.78
 0.00  0.00  0.00 -0.01  0.00
10 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.05  0.23  0.61  1.04  1.38  1.38  1.03
 0.00  0.00 -0.01 -0.09  0.00
11 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.11  0.42  1.01  1.80  2.33  2.33  1.80
 0.00 -0.01 -0.09 -0.87  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.07 -0.04  0.00  0.05  0.07  0.06  0.04  0.04  0.06
-0.07 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.87 -0.86 -0.83 -0.80 -0.77 -0.75 -0.75 -0.77
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   16

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.84 -0.82 -0.81 -0.80 -0.80 -0.81
-0.86 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.93 -0.86 -0.82 -0.70 -0.40  0.19  1.03  1.98  2.72  3.01  3.33  3.33  3.01
-0.40 -0.75 -1.48 -8.93  0.00
-2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.03  0.09  0.20  0.37  0.56  0.75  0.92  1.03  1.03  0.92
 0.09  0.03  0.00 -0.09  0.00
-1 1.E -5 *   -0.09 -0.01  0.00  0.00  0.02  0.12  0.40  1.03  1.94  2.91  3.89  4.70  5.23  5.23  4.70
 0.40  0.12  0.01 -0.09  0.00
 0 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.03  0.13  0.40  1.15  1.95  2.09  2.14  2.34  2.34  2.14
 0.13  0.03  0.00 -0.01  0.00
 1 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.10  0.24 -1.16  0.44  0.47  0.52  0.52  0.47
 0.03  0.01  0.00  0.00  0.00
 2 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.08  0.49  1.48 -0.23  4.96  6.27  7.33  7.78  7.78  7.33
 0.49  0.08  0.01 -0.01  0.00
 3 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.08  0.49  1.54 -3.49  4.92  6.74  8.01  5.65  5.65  8. 1
 0.49  0.08  0.01 -0.01  0.00
 4 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.06  0.31  1.05  2.16  3.99  6.44  8.72  7.29  7.29  8.72
```

Micro Shuttle POLAR 1.1 Results

```
 0.31  0.06  0.01 -0.01  0.00
 5 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.03  0.13  0.42  1.05  2.44  5.12  7.44  7.74  7.74  7.43
 0.13  0.03  0.00 -0.01  0.00
 6 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.01  0.04  0.12  0.33  0.92  2.74  4.50  5.56  5.56  4.49
 0.04  0.01  0.00 -0.01  0.00
 7 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.12  0.37  1.18  2.16  3.03  3.03  2.16
 0.01  0.00  0.00 -0.01  0.00
 8 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.13  0.42  0.91  1.20  1.20  0.91
 0.00  0.00  0.00 -0.01  0.00
 9 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.11  0.45  1.32  2.93  4.65  4.65  2.92
 0.00  0.00 -0.01 -0.09  0.00
10 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.00  0.01  0.03  0.26  1.10  2.96  5.42  6.97  6.96  5.41
 0.01  0.00 -0.09 -0.87  0.00
11 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.05  0.20  0.52  0.92  1.22  1.22  0.92
 0.00 -0.01 -0.09 -0.87  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.07 -0.06 -0.02  0.02  0.05  0.07  0.07  0.07  0.07
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.88 -0.88 -0.88 -0.87 -0.85 -0.83 -0.81 -0.79 -0.79 -0.81
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   17

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.85 -0.84 -0.82 -0.81 -0.79 -0.79 -0.81
-0.86 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.93 -0.87 -0.85 -0.75 -0.49  0.06  0.91  1.77  2.20  2.69  2.53  2.53  2.69
-0.49 -0.80 -1.51 -8.94  0.00
-2 1.E -6 *   -0.87 -0.09 -0.01 -0.01  0.01  0.09  0.37  0.94  1.68  2.46  3.16  3.72  4.04  4.04  3.72
 0.37  0.09 -0.08 -0.87  0.00
-1 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.04  0.16  0.44  0.89  1.31  1.54  1.64  1.69  1.69  1.64
 0.16  0.04  0.00 -0.09  0.00
 0 1.E -5 *   -0.09 -0.01  0.00  0.00  0.02  0.12  0.42  1.20  3.19  6.27  5.48  4.20  4.27  4.27  4.20
 0.42  0.12  0.01 -0.09  0.00
 1 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.02  0.08  0.25  0.77  1.21  1.01  0.78  0.78  0.78  0.78
 0.08  0.02  0.00 -0.01  0.00
 2 1.E -4 *   -0.01  0.00  0.00  0.00  0.01  0.03  0.11  0.42  0.93  1.11  1.03  1.01  1.20  1.20  1.01
 0.11  0.03  0.00 -0.01  0.00
 3 1.E -5 *   -0.09 -0.01  0.00  0.00  0.05  0.30  1.08  4.38  8.33  8.60  8.44  9.82 -1.66 -1.66  9.82
 1.08  0.30  0.04 -0.09  0.00
 4 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.02  0.08  0.27  0.53  0.79  1.53  2.45  0.62  0.62  2.45
 0.08  0.02  0.00 -0.01  0.00
 5 1.E -3 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.01  0.03  0.05  0.20 -2.41  0.23  0.23 -2.41
 0.00  0.00  0.00  0.00  0.00
 6 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.12  0.32  1.11  1.87  1.49  1.39  1.87
 0.01  0.00  0.00 -0.01  0.00
 7 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.04  0.13  0.46  1.44  3.03  4.56  5.56  5.55  4.55
 0.04  0.01 -0.01 -0.09  0.00
 8 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.00  0.01  0.03  0.15  0.50  1.14  1.89  2.49  2.49  1.88
 0.01  0.00 -0.01 -0.09  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.01  0.02  0.09  0.48  1.66  4.05  7.15  9.06  9.05  7.13
 0.02  0.00 -0.09 -0.87  0.00
10 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.00  0.01  0.02  0.10  0.41  1.05  1.91  2.65  2.64  1.91
 0.01 -0.01 -0.09 -0.87  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01 -0.01  0.00  0.01  0.06  0.20  0.73  1.95  3.57  4.68  4.68  3.57
 0.01 -0.08 -0.89 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.07 -0.04 -0.01  0.03  0.06  0.07  0.07  0.06
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.88 -0.88 -0.88 -0.87 -0.86 -0.85 -0.84 -0.83 -0.83 -0.84
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   18

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.86 -0.85 -0.83 -0.81 -0.80 -0.80 -0.80 -0.80 -0.80
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.93 -0.88 -0.86 -0.80 -0.59 -0.10  0.70  1.15  1.78  1.98  2.11  2.11  1.98
-0.59 -0.85 -1.53 -8.94  0.00
-2 1.E -6 *   -0.87 -0.09 -0.01 -0.01  0.00  0.03  0.15  0.38  0.73  1.07  1.39  1.61  1.75  1.75  1.61
 0.15  0.02 -0.09 -0.87  0.00
-1 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.02  0.14  0.53  1.47  2.97  4.40  4.66  4.68  4.45  4.45  4.68
 0.53  0.13 -0.07 -0.87  0.00
 0 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.04  0.13  0.38  0.78  1.12  1.17  0.98  0.91  0.91  0.98
 0.13  0.03  0.00 -0.09  0.00
 1 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.06  0.23  0.69  1.25  1.63  1.72  1.78  1.76  1.76  1.78
 0.23  0.06  0.00 -0.09  0.00
 2 1.E -5 *   -0.09 -0.01  0.00  0.00  0.02  0.08  0.33  0.88  1.57  1.56  1.99  1.99  2.75  2.75  1.99
 0.33  0.08  0.01 -0.09  0.00
 3 1.E -5 *   -0.09 -0.01  0.00  0.00  0.02  0.08  0.33  0.84  1.43  1.32  1.13  1.73 -5.71 -5.71  1.73
 0.33  0.08  0.01 -0.09  0.00
 4 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.07  0.24  0.64  1.06  1.97  5.10  9.98 -1.15 -1.15  9.98
 0.24  0.06  0.00 -0.09  0.00
 5 1.E -4 *   -0.01  0.00  0.00  0.00  0.00  0.00  0.01  0.04  0.08  0.19  0.89  1.46  0.96  0.96  1.46
 0.01  0.00  0.00 -0.01  0.00
 6 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.02  0.05  0.15  0.41  1.20  5.00  8.41  5.79  5.79  8.41
 0.05  0.02 -0.01 -0.09  0.00
 7 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.01  0.02  0.06  0.18  0.57  1.19  1.60  1.91  1.91  1.60
 0.02  0.01 -0.01 -0.09  0.00
 8 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.02  0.07  0.23  0.67  1.78  3.60  5.75  7.29  7.29  5.75
 0.07  0.01 -0.08 -0.87  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.01  0.03  0.09  0.24  0.59  1.21  1.96  2.50  2.50  1.96
 0.03  0.00 -0.09 -0.87  0.00
10 1.E -7 *   -8.70 -0.88 -0.08 -0.01  0.00  0.02  0.07  0.24  0.69  1.58  2.98  5.00  6.23  6.23  5.00
 0.07 -0.06 -0.88 -8.70  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01 -0.01  0.00  0.01  0.05  0.14  0.33  0.71  1.14  1.57  1.57  1.14
 0.00 -0.08 -0.89 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.07 -0.05 -0.02  0.02  0.06  0.08  0.08  0.06
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.88 -0.88 -0.88 -0.88 -0.87 -0.86 -0.86 -0.85 -0.85 -0.86
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                QUSD INFORMATION FOR SLICE IZOB =   19

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                    -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.86 -0.84 -0.81 -0.82 -0.80 -0.81 -0.81 -0.80
-0.87 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.94 -0.88 -0.87 -0.82 -0.61 -0.15  0.51  0.89  1.64  2.15  2.14  2.14  2.15
-0.61 -0.87 -1.53 -8.94  0.00
-2 1.E -6 *   -0.87 -0.09 -0.02 -0.01  0.00  0.02  0.08  0.19  0.38  0.64  0.91  1.12  1.26  1.26  1.12
 0.08  0.01 -0.09 -0.87  0.00
-1 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.01  0.07  0.23  0.61  1.02  1.57  1.75  2.00  2.17  2.17  2.00
 0.23  0.06 -0.08 -0.87  0.00
 0 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.03  0.14  0.47  1.23  2.31  3.47  3.91  3.57  2.89  2.89  3.57
 0.47  0.13 -0.06 -0.87  0.00
 1 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.05  0.21  0.80  1.83  2.01  1.78  2.61  4.96  5.95  5.95  4.96
 0.80  0.20 -0.04 -0.86  0.00
 2 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.07  0.30  0.98  2.30  2.91  1.37  3.52  5.65  6.08  6.08  5.65
 0.98  0.29 -0.02 -0.86  0.00
 3 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.03  0.10  0.22  0.28 -0.05 -0.51 -0.14 -5.71 -5.71 -0.14
 0.10  0.03  0.00 -0.09  0.00
 4 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.03  0.08  0.21  0.16  0.39  0.39  1.49 -5.01 -5.01  1.49
 0.08  0.02  0.00 -0.09  0.00
 5 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.02  0.06  0.16  0.35  0.76  1.79  1.76  1.35  1.35  1.76
 0.06  0.02  0.00 -0.09  0.00
 6 1.E -5 *   -0.09 -0.01  0.00  0.00  0.00  0.01  0.03  0.09  0.21  0.52  1.03  1.32  1.02  1.02  1.32
 0.03  0.01 -0.01 -0.09  0.00
 7 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.02  0.07  0.14  0.43  0.90  2.58  5.25  5.04  6.83  6.83  5.04
 0.14  0.06 -0.07 -0.87  0.00
 8 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.01  0.03  0.08  0.24  0.49  0.90  1.72  2.57  2.88  2.88  2.57
 0.08  0.02 -0.08 -0.87  0.00
```

Micro Shuttle POLAR 1.1 Results

```
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.01  0.04  0.08  0.17  0.39  0.61  0.88  1.05  1.05  0.88
 0.04  0.00 -0.09 -0.87  0.00
10 1.E -7 *   -8.70 -0.89 -0.08 -0.01  0.00  0.03  0.12  0.39  0.78  0.99  1.73  2.20  2.23  2.23  2.20
 0.11 -0.05 -0.88 -8.70  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01 -0.01  0.00  0.02  0.07  0.20  0.43  0.62  0.78  0.81  0.81  0.78
 0.01 -0.08 -0.89 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.08 -0.07 -0.05 -0.01  0.05  0.11  0.16  0.16  0.11
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.88 -0.88 -0.88 -0.88 -0.87 -0.86 -0.85 -0.85 -0.85 -0.85
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 20

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.86 -0.85 -0.83 -0.81 -0.81 -0.84 -0.81 -0.81 -0.84
-0.86 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.94 -0.88 -0.86 -0.78 -0.47 -0.13  0.66  1.15  1.72  2.32  2.44  2.44  2.32
-0.48 -0.83 -1.53 -8.94  0.00
-2 1.E -6 *   -0.87 -0.09 -0.02 -0.01  0.00  0.02  0.07  0.18  0.31  0.63  0.90  1.15  1.33  1.33  1.15
 0.07  0.02 -0.09 -0.87  0.00
-1 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.02  0.06  0.21  0.49  0.84  1.32  1.33  2.35  1.91  1.91  2.35
 0.21  0.06 -0.07 -0.87  0.00
 0 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.04  0.12  0.41  0.92  1.55  2.35  2.56  2.18  2.42  2.42  2.18
 0.41  0.11 -0.05 -0.86  0.00
 1 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.05  0.18  0.59  1.26  0.85  0.71  0.52  2.57  4.94  4.94  2.57
 0.59  0.18 -0.04 -0.86  0.00
 2 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.07  0.24  0.78  1.66  1.92  2.12  2.98  1.42 -0.51 -0.51  1.42
 0.78  0.23 -0.02 -0.86  0.00
 3 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.03  0.08  0.16  0.16 -0.07 -0.59 -0.32 -4.22 -4.22 -0.32
 0.08  0.03  0.00 -0.09  0.00
 4 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.02  0.06  0.16  0.05  0.00 -0.37  0.24 -4.19 -4.19  0.24
 0.06  0.02  0.00 -0.09  0.00
 5 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.07  0.18  0.58  1.31  2.39  4.62  8.28  4.24  0.31  0.31  4.24
 0.58  0.17 -0.02 -0.86  0.00
 6 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.05  0.11  0.37  0.88  1.73  3.16  5.27  4.93  3.48  3.48  4.93
 0.37  0.11 -0.04 -0.86  0.00
 7 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.03  0.08  0.17  0.47  0.75  1.75  3.04  2.00  3.18  3.18  2.00
 0.16  0.07 -0.06 -0.87  0.00
 8 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.01  0.05  0.11  0.23  0.41  0.76  1.40  1.80  2.27  2.27  1.80
 0.11  0.04 -0.08 -0.87  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.00  0.02  0.05  0.10  0.20  0.43  0.62  0.94  1.07  1.07  0.94
 0.05  0.01 -0.08 -0.87  0.00
10 1.E -7 *   -8.70 -0.89 -0.08 -0.01  0.01  0.06  0.23  0.58  0.90  1.12  1.99  2.32  2.72  2.72  2.32
 0.22 -0.02 -0.87 -8.69  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01 -0.01  0.01  0.05  0.14  0.37  0.58  0.65  1.08  1.03  1.03  1.08
 0.04 -0.07 -0.88 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.07 -0.05 -0.01  0.07  0.18  0.19  0.26  0.26  0.19
-0.08 -0.15 -0.94 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.88 -0.88 -0.88 -0.87 -0.86 -0.85 -0.83 -0.82 -0.82 -0.83
-0.89 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 21

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.86 -0.85 -0.85 -0.84 -0.80 -0.85 -0.87 -0.85 -0.85 -0.87
-0.85 -0.87 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.93 -0.88 -0.84 -0.68 -0.46  0.18  1.05  1.77  2.34  2.74  2.90  2.90  2.74
-0.47 -0.73 -1.50 -8.94  0.00
-2 1.E -6 *   -0.87 -0.09 -0.01 -0.01  0.01  0.04  0.11  0.19  0.36  0.64  0.96  1.21  1.40  1.40  1.21
 0.11  0.03 -0.08 -0.87  0.00
-1 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.03  0.06  0.25  0.50  0.82  1.18  1.47  1.90  1.91  1.91  1.90
 0.25  0.05 -0.06 -0.86  0.00
 0 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.04  0.16  0.47  0.98  1.39  1.73  1.92  1.54  1.12  1.12  1.54
 0.47  0.15 -0.04 -0.86  0.00
 1 1.E -6 *   -0.87 -0.09 -0.01  0.02  0.08  0.22  0.66  0.90 -0.15  0.31 -1.78  2.28  1.69  1.69  2.28
 0.66  0.21 -0.01 -0.85  0.00
 2 1.E -6 *   -0.87 -0.09  0.00  0.03  0.08  0.27  0.82  1.23  2.58  2.00  4.23  0.54 -4.44 -4.44  0.54
 0.82  0.26 -0.01 -0.84  0.00
 3 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.03  0.09  0.11  0.17  0.06 -0.24 -0.08 -2.97 -2.97 -0.08
 0.09  0.03  0.00 -0.08  0.00
 4 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.03  0.07  0.12 -0.07 -0.06 -0.36 -0.04 -3.00 -3.00 -0.04
 0.07  0.02  0.00 -0.08  0.00
 5 1.E -6 *   -0.87 -0.09  0.00  0.03  0.08  0.21  0.61  1.26  2.62  2.41  6.28  2.03 -1.64 -1.64  2.03
 0.61  0.20 -0.01 -0.84  0.00
 6 1.E -6 *   -0.87 -0.09 -0.01  0.02  0.07  0.14  0.45  0.81  1.43  2.76  3.45  2.92  3.01  3.01  2.92
 0.45  0.13 -0.02 -0.85  0.00
 7 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.04  0.11  0.22  0.50  0.72  1.37  2.79  0.98  2.06  2.06  0.98
 0.22  0.10 -0.05 -0.86  0.00
 8 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.02  0.06  0.12  0.28  0.41  0.80  1.07  1.97  1.65  1.65  1.97
 0.12  0.05 -0.07 -0.87  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.01  0.03  0.07  0.14  0.19  0.49  0.67  0.92  1.07  1.07  0.92
 0.07  0.02 -0.08 -0.87  0.00
10 1.E -7 *   -8.70 -0.89 -0.08  0.00  0.03  0.12  0.34  0.52  1.28  1.47  2.28  2.81  3.17  3.17  2.81
 0.34  0.04 -0.85 -8.69  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.01  0.00  0.02  0.11  0.29  0.49  0.67  0.76  1.07  1.32  1.32  1.07
 0.10 -0.06 -0.88 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.15 -0.09 -0.08 -0.08 -0.06 -0.02  0.07  0.22  0.33  0.39  0.48  0.48  0.39
-0.07 -0.15 -0.93 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.88 -0.88 -0.88 -0.87 -0.86 -0.84 -0.80 -0.76 -0.74 -0.74 -0.76
-0.88 -0.93 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

QUSD INFORMATION FOR SLICE IZOB = 22

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.86 -0.85 -0.85 -0.85 -0.79 -0.86 -0.91 -0.91 -0.91 -0.91
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *   -8.95 -1.55 -0.94 -0.87 -0.80 -0.58 -0.29  0.64  1.63  2.36  2.74  2.91  2.94  2.94  2.91
-0.29 -0.64 -1.46 -8.93  0.00
-2 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.02  0.06  0.16  0.23  0.45  0.63  0.94  1.16  1.58  1.58  1.16
 0.16  0.06 -0.07 -0.87  0.00
-1 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.05  0.09  0.30  0.50  0.70  1.32  1.45  2.00  1.29  1.29  2.00
 0.30  0.08 -0.04 -0.86  0.00
 0 1.E -6 *   -0.87 -0.09 -0.01  0.02  0.05  0.21  0.48  0.77  1.35  1.19  1.39  0.81  0.91  0.91  0.81
 0.48  0.21 -0.04 -0.85  0.00
 1 1.E -6 *   -0.87 -0.09  0.00  0.03  0.12  0.25  0.53  0.67 -0.79 -0.30 -2.44  0.78  1.10  1.10  0.78
 0.53  0.24  0.03 -0.85  0.00
 2 1.E -6 *   -0.87 -0.09  0.00  0.05  0.08  0.34  0.68  1.18  2.42  1.70  1.85  0.58 -6.76 -6.76  0.58
 0.68  0.33  0.00 -0.83  0.00
 3 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.04  0.08  0.11  0.20  0.00 -0.28 -0.21 -2.36 -2.36 -0.21
 0.08  0.04  0.00 -0.08  0.00
 4 1.E -5 *   -0.09 -0.01  0.00  0.00  0.01  0.03  0.05  0.10 -0.13 -0.21 -0.72 -0.46 -2.61 -2.61 -0.46
 0.05  0.03  0.00 -0.08  0.00
 5 1.E -6 *   -0.87 -0.09  0.00  0.04  0.09  0.25  0.57  1.22  1.90  1.91  3.62 -3.37 -3.45 -3.45 -3.37
 0.56  0.25  0.00 -0.83  0.00
 6 1.E -6 *   -0.87 -0.09  0.00  0.03  0.11  0.19  0.50  0.71  1.36  2.25  2.49  1.10  1.19  1.19  1.10
 0.50  0.18  0.02 -0.85  0.00
 7 1.E -6 *   -0.87 -0.09 -0.01  0.02  0.05  0.15  0.28  0.54  0.86  1.54  2.02 -0.65  3.34  3.34 -0.65
 0.28  0.14 -0.04 -0.85  0.00
 8 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.04  0.07  0.15  0.35  0.51  0.69  1.31  1.49  0.97  0.97  1.49
 0.15  0.06 -0.05 -0.86  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.02  0.04  0.11  0.14  0.22  0.55  0.69  0.97  1.11  1.11  0.97
 0.11  0.03 -0.07 -0.87  0.00
10 1.E -7 *   -8.70 -0.89 -0.09  0.00  0.06  0.24  0.45  0.74  1.67  1.87  2.87  3.41  3.81  3.81  3.41
 0.44  0.16 -0.82 -8.69  0.00
11 1.E -7 *   -8.70 -0.89 -0.09 -0.02  0.00  0.06  0.21  0.37  0.52  0.97  1.04  1.42  1.55  1.55  1.42
 0.21 -0.02 -0.87 -8.70  0.00
12 1.E -7 *   -8.72 -0.94 -0.16 -0.09 -0.08 -0.07 -0.04  0.05  0.22  0.30  0.49  0.53  0.70  0.70  0.53
-0.04 -0.14 -0.93 -8.72  0.00
13 1.E -7 *   -8.95 -1.55 -0.94 -0.89 -0.89 -0.89 -0.88 -0.87 -0.83 -0.78 -0.71 -0.64 -0.67 -0.67 -0.64
```

```
-0.88 -0.94 -1.55 -8.95  0.00
14 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87
-0.87 -0.87 -0.89 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    QUSD INFORMATION FOR SLICE IZOB =   23

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.96 -0.87 -0.87 -0.87 -0.85 -0.85 -0.86 -0.85 -0.82 -0.90 -0.91 -1.05 -1.05 -0.91
-0.85 -0.86 -0.89 -1.25  0.00
-3 1.E -7 *   -8.96 -1.58 -0.97 -0.90 -0.76 -0.56 -0.09  1.08  2.03  2.67  2.70  2.07  3.71  3.71  2.07
-0.09 -0.60 -1.40 -8.93  0.00
-2 1.E -6 *   -0.87 -0.10 -0.02 -0.01  0.02  0.09  0.14  0.28  0.44  0.63  0.97  1.45  1.55  1.55  1.45
 0.14  0.08 -0.06 -0.86  0.00
-1 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.05  0.11  0.34  0.55  0.73  1.37  1.33  1.79  1.69  1.69  1.79
 0.34  0.10 -0.04 -0.85  0.00
 0 1.E -7 *   -8.72 -0.93 -0.08  0.27  0.57  2.47  5.23  5.82  9.81  5.36  3.21  3.40  2.52  2.52  3.40
 5.22  2.40 -0.29 -8.44  0.00
 1 1.E -6 *   -0.87 -0.09  0.00  0.04  0.11  0.30  0.49  0.70  0.03 -1.33 -0.79 -0.52  0.21  0.21 -0.32
 0.49  0.30  0.03 -0.84  0.00
 2 1.E -6 *   -0.87 -0.09  0.00  0.04  0.10  0.39  0.58  0.71  1.49  1.20  1.34 -0.47 -7.52 -7.52 -0.47
 0.58  0.39  0.01 -0.84  0.00
 3 1.E -5 *   -0.89 -0.01  0.00  0.00  0.01  0.05  0.06  0.12  0.04 -0.05 -0.46 -0.33 -2.06 -2.06 -0.33
 0.06  0.05  0.00 -0.08  0.00
 4 1.E -5 *   -0.89 -0.01  0.00  0.00  0.01  0.03  0.04  0.14 -0.08 -0.19 -0.39 -0.32 -2.17 -2.17 -0.32
 0.04  0.03  0.00 -0.08  0.00
 5 1.E -6 *   -0.87 -0.09  0.00  0.04  0.11  0.25  0.55  0.82  1.83  1.53  2.31 -3.79 -7.48 -7.48 -3.79
 0.55  0.25  0.02 -0.84  0.00
 6 1.E -6 *   -0.87 -0.09  0.00  0.03  0.09  0.21  0.51  1.03  1.07  2.24  2.08  2.04  0.33  0.33  2.04
 0.51  0.21  0.01 -0.84  0.00
 7 1.E -6 *   -0.87 -0.09 -0.01  0.02  0.05  0.19  0.25  0.46  0.77  1.40  2.11 -0.84  1.61  1.61 -0.84
 0.25  0.18 -0.03 -0.85  0.00
 8 1.E -6 *   -0.87 -0.09 -0.01  0.01  0.02  0.07  0.19  0.39  0.43  1.05  1.08  1.61  1.23  1.23  1.61
 0.18  0.06 -0.06 -0.85  0.00
 9 1.E -6 *   -0.87 -0.09 -0.01  0.00  0.02  0.05  0.08  0.13  0.30  0.58  0.60  0.76  1.02  1.02  0.76
 0.08  0.04 -0.07 -0.86  0.00
10 1.E -7 *   -8.72 -0.94 -0.15 -0.06  0.05  0.16  0.53  0.90  1.94  1.97  3.19  3.44  3.73  3.73  3.44
 0.53  0.09 -0.80 -8.69  0.00
11 1.E -7 *   -8.72 -0.94 -0.16 -0.08 -0.05  0.05  0.24  0.33  0.67  0.86  1.14  1.45  1.35  1.35  1.45
 0.24 -0.02 -0.90 -8.71  0.00
12 1.E -7 *   -8.73 -0.98 -0.22 -0.16 -0.14 -0.12 -0.05  0.12  0.23  0.21  0.65  0.64  0.72  0.72  0.64
-0.05 -0.18 -0.97 -8.73  0.00
13 1.E -7 *   -8.96 -1.58 -0.98 -0.94 -0.93 -0.93 -0.92 -0.89 -0.82 -0.72 -0.68 -0.67 -0.59 -0.59 -0.67
-0.92 -0.97 -1.58 -8.96  0.00
14 1.E -6 *   -1.25 -0.90 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.87 -0.86 -0.86 -0.86 -0.86
-0.87 -0.87 -0.90 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    QUSD INFORMATION FOR SLICE IZOB =   24

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.25 -0.91 -0.90 -0.89 -0.89 -0.88 -0.88 -0.94 -0.92 -0.91 -0.97 -1.09 -1.21 -1.21 -1.09
-0.88 -0.88 -0.90 -1.25  0.00
-3 1.E -7 *   -9.12 -2.04 -1.53 -1.48 -1.43 -1.17 -0.75  0.32  0.98  0.50 -0.39  0.03  1.51  1.51  0.03
-0.75 -1.20 -1.92 -9.07  0.00
-2 1.E -7 *   -8.96 -1.58 -0.95 -0.77 -0.52  0.21  0.26  0.93  1.25  3.51  5.71  9.06  9.58  9.58  9.06
 0.26  0.16 -1.17 -8.81  0.00
-1 1.E -7 *   -8.95 -1.54 -0.88 -0.60 -0.36 -0.04  0.96  1.93  2.68  3.27  0.70  1.37  1.72  1.72  1.37
 0.96 -0.09 -1.02 -8.71  0.00
 0 1.E -6 *   -0.89 -0.15 -0.08 -0.05 -0.03  0.11  0.17  0.50 -0.13 -0.83 -1.33 -1.88 -2.28 -2.28 -1.88
 0.17  0.11 -0.10 -0.87  0.00
 1 1.E -6 *   -0.89 -0.15 -0.07 -0.05  0.04  0.08  0.21  0.14 -0.76 -1.10 -3.55 -1.76 -2.96 -2.96 -1.76
 0.21  0.08 -0.02 -0.87  0.00
 2 1.E -6 *   -0.89 -0.15 -0.07 -0.03  0.01  0.20  0.26  0.67  0.75  0.11 -0.28 -3.50 -9.97 -9.97 -3.50
 0.26  0.19 -0.06 -0.87  0.00
 3 1.E -5 *   -0.09 -0.01 -0.01  0.00  0.00  0.02  0.04  0.04  0.03 -0.17 -0.33 -0.33 -1.59 -1.59 -0.37
 0.04  0.02  0.00 -0.09  0.00
 4 1.E -5 *   -0.89 -0.01 -0.01  0.00  0.00  0.00  0.01  0.03 -0.15 -0.40 -0.53 -0.44 -1.76 -1.78 -0.44
 0.01  0.00  0.00 -0.09  0.00
 5 1.E -6 *   -0.89 -0.15 -0.07 -0.03  0.01  0.13  0.08  0.40 -0.07 -1.07 -1.41 -6.24 -8.04 -8.04 -6.24
 0.08  0.12 -0.06 -0.87  0.00
 6 1.E -6 *   -0.89 -0.15 -0.07 -0.04  0.01  0.07  0.16  0.37  0.17  0.65 -0.23 -2.16 -1.15 -1.15 -2.16
 0.15  0.07 -0.06 -0.87  0.00
 7 1.E -6 *   -0.89 -0.15 -0.08 -0.06 -0.03  0.10  0.05  0.40  0.19 -0.01  0.35 -1.15  0.18  0.18 -1.15
 0.05  0.09 -0.10 -0.88  0.00
 8 1.E -7 *   -8.95 -1.54 -0.88 -0.64 -0.67 -0.26  0.66  1.86  2.60  4.38  1.77  4.67 -1.92 -1.92  4.67
 0.66 -0.31 -1.34 -8.76  0.00
 9 1.E -7 *   -8.95 -1.55 -0.91 -0.75 -0.54 -0.36 -0.20  0.51  1.07  2.69  3.71  6.64  6.79  6.79  6.64
-0.21 -0.41 -1.20 -8.82  0.00
10 1.E -7 *   -8.95 -1.55 -0.93 -0.84 -0.75 -0.70 -0.28 -0.05  1.00  0.55  1.94  0.80  3.26  3.26  0.80
-0.28 -0.75 -1.42 -8.91  0.00
11 1.E -7 *   -8.95 -1.55 -0.94 -0.88 -0.82 -0.75 -0.56 -0.79 -0.11 -0.17 -0.02  1.01 -0.22 -0.22  1.01
-0.56 -0.80 -1.48 -8.94  0.00
12 1.E -7 *   -8.96 -1.58 -0.98 -0.94 -0.92 -0.88 -0.75 -0.67 -0.62 -0.61 -0.13 -0.28 -0.14 -0.14 -0.28
-0.75 -0.93 -1.57 -8.96  0.00
13 1.E -7 *   -9.12 -2.04 -1.58 -1.55 -1.55 -1.54 -1.52 -1.46 -1.35 -1.29 -1.31 -1.36 -1.16 -1.16 -1.36
-1.52 -1.57 -2.04 -9.12  0.00
14 1.E -6 *   -1.25 -0.91 -0.90 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.89 -0.88 -0.88 -0.89 -0.89 -0.88
-0.89 -0.90 -0.91 -1.25  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    QUSD INFORMATION FOR SLICE IZOB =   25

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E -6 *   -1.42 -1.25 -1.25 -1.25 -1.25 -1.25 -1.31 -1.46 -1.54 -1.67 -1.79 -2.16 -2.25 -2.25 -2.16
-1.31 -1.25 -1.26 -1.42  0.00
-3 1.E -6 *   -1.25 -0.91 -0.90 -0.89 -0.92 -0.95 -1.03 -1.06 -1.36 -1.70 -2.21 -2.44 -2.65 -2.65 -2.44
-1.03 -0.95 -0.94 -1.25  0.00
-2 1.E -6 *   -1.25 -0.90 -0.87 -0.88 -0.89 -0.95 -1.17 -1.63 -2.33 -2.72 -3.23 -3.67 -3.90 -3.90 -3.67
-1.17 -0.95 -0.91 -1.26  0.00
-1 1.E -6 *   -1.25 -0.89 -0.87 -0.89 -0.94 -1.14 -1.47 -2.19 -3.55 -4.51 -6.55 -7.21 -8.18 -8.18 -7.21
-1.47 -1.14 -0.97 -1.27  0.00
 0 1.E -5 *   -0.12 -0.09 -0.09 -0.09 -0.10 -0.12 -0.20 -0.32 -0.57 -0.88 -1.23 -1.45 -1.71 -1.71 -1.45
-0.20 -0.12 -0.10 -0.13  0.00
 1 1.E -5 *   -0.12 -0.09 -0.09 -0.09 -0.10 -0.15 -0.24 -0.41 -0.83 -1.16 -1.83 -2.09 -2.43 -2.43 -2.09
-0.24 -0.15 -0.10 -0.13  0.00
 2 1.E -5 *   -0.12 -0.09 -0.09 -0.09 -0.11 -0.15 -0.27 -0.40 -0.70 -1.26 -1.76 -2.62 -3.79 -3.79 -2.62
-0.27 -0.15 -0.12 -0.13  0.00
 3 1.E -5 *   -0.12 -0.09 -0.09 -0.10 -0.12 -0.16 -0.26 -0.44 -0.88 -1.56 -2.34 -3.10 -4.63 -4.63 -3.10
-0.28 -0.16 -0.12 -0.14  0.00
 4 1.E -5 *   -0.12 -0.09 -0.09 -0.10 -0.11 -0.18 -0.29 -0.51 -1.17 -1.74 -2.67 -3.44 -4.81 -4.81 -3.44
-0.29 -0.18 -0.12 -0.14  0.00
 5 1.E -5 *   -0.12 -0.09 -0.09 -0.09 -0.11 -0.15 -0.26 -0.42 -0.77 -1.32 -1.98 -2.93 -3.52 -3.52 -2.93
-0.26 -0.16 -0.11 -0.13  0.00
 6 1.E -5 *   -0.12 -0.09 -0.09 -0.09 -0.10 -0.14 -0.22 -0.31 -0.57 -0.79 -1.42 -1.91 -2.12 -2.12 -1.91
-0.22 -0.14 -0.11 -0.13  0.00
 7 1.E -5 *   -0.12 -0.09 -0.09 -0.09 -0.10 -0.11 -0.17 -0.24 -0.37 -0.57 -0.77 -1.26 -1.15 -1.15 -1.26
-0.17 -0.11 -0.10 -0.13  0.00
 8 1.E -6 *   -1.25 -0.89 -0.87 -0.89 -0.96 -1.04 -1.28 -1.56 -2.64 -3.23 -5.01 -5.94 -7.04 -7.04 -5.94
-1.28 -1.04 -0.99 -1.27  0.00
 9 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.89 -0.94 -1.02 -1.32 -1.75 -2.26 -2.74 -2.89 -3.55 -3.55 -2.89
-1.02 -0.95 -0.92 -1.25  0.00
10 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.88 -0.92 -0.94 -1.07 -1.15 -1.49 -1.70 -2.20 -1.96 -1.96 -2.20
-0.94 -0.92 -0.90 -1.24  0.00
11 1.E -6 *   -1.25 -0.89 -0.87 -0.87 -0.87 -0.88 -0.89 -0.99 -0.99 -1.13 -1.24 -1.22 -1.47 -1.47 -1.22
-0.89 -0.88 -0.89 -1.25  0.00
12 1.E -6 *   -1.25 -0.90 -0.87 -0.87 -0.87 -0.87 -0.88 -0.90 -0.92 -0.92 -0.95 -1.04 -1.04 -1.04 -1.04
-0.88 -0.87 -0.90 -1.25  0.00
13 1.E -6 *   -1.25 -0.91 -0.90 -0.89 -0.89 -0.89 -0.89 -0.89 -0.90 -0.92 -0.92 -0.95 -0.96 -0.96 -0.95
-0.89 -0.90 -0.91 -1.25  0.00
14 1.E -6 *   -1.42 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.25 -1.24 -1.25 -1.25 -1.26 -1.26 -1.25 -1.25
-1.25 -1.25 -1.25 -1.42  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    END OF QUSD DATA.
```

Micro Shuttle POLAR 1.1 Results

THE ENTIRE SCRN DATA IS AS FOLLOWS

SCRN INFORMATION FOR SLICE IZOB = -3

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = -2

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = -1

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 0

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
```

```
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 1

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 2

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 3

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
```

Micro Shuttle POLAR 1.1 Results

```
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.71 -3.71 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4 00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    4

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.71 -3.71 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    5

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -0.60 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.10  0.00 -3.10
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.04 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    6

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.04 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -1.04 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
```

```
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    7

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.40 -3.40 -3.40 -3.40
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.71  0.00  0.00 -3.71
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -1.82  0.00  0.00 -1.82
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -4.00 -4.00 -3.50
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    8

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =    9

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -0.60 -0.60 -0.60 -0.60
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50  0.00  0.00  0.00  0.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -3.71 -3.50 -3.50 -3.71
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -4.00 -4.00 -3.50
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   10

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                   -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -0.60 -0.60 -0.60 -0.60
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.25  0.00  0.00  0.00  0.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50  0.00 -0.75 -0.75  0.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -4.00 -4.00 -3.50
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
```

Micro Shuttle POLAR 1.1 Results

```
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   10

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  4.00 -3.40 -0.60 -0.60 -0.60 -0.60
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -3.40  0.04  0.00  0.00  0.04
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.04  0.00  0.00  0.04
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -3.50 -4.00 -4.00 -3.50
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   11

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   12

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                      -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
```

```
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   13

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -0.60 -0.40 -0.40 -0.60
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00  0.00  0.00  0.00  0.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.75  0.20  0.00  0.00 -0.20
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -0.20 -0.20 -3.50
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   14

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -1.50 -1.50 -1.50 -1.50
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.50 -1.50 -1.50 -1.50 -1.50
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -1.50  0.02 -3.40 -3.40  0.02
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -1.50 -0.60 -0.60 -1.50
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -3.75 -1.25 -1.25 -3.75
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   15

                    -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                    SCRN INFORMATION FOR SLICE IZOB =   16

                    -->X IS HORIZONTAL, Y IS VERTICAL<--
```

Micro Shuttle POLAR 1.1 Results

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 17

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 18

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00
```

SCRN INFORMATION FOR SLICE IZOB = 19

-->X IS HORIZONTAL, Y IS VERTICAL<--

```
                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
```

```
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   20

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   21

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   22

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                  -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
   15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *    4.00 -4.00 -4.00 -4.00 -4.00  4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00  4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00  4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
```

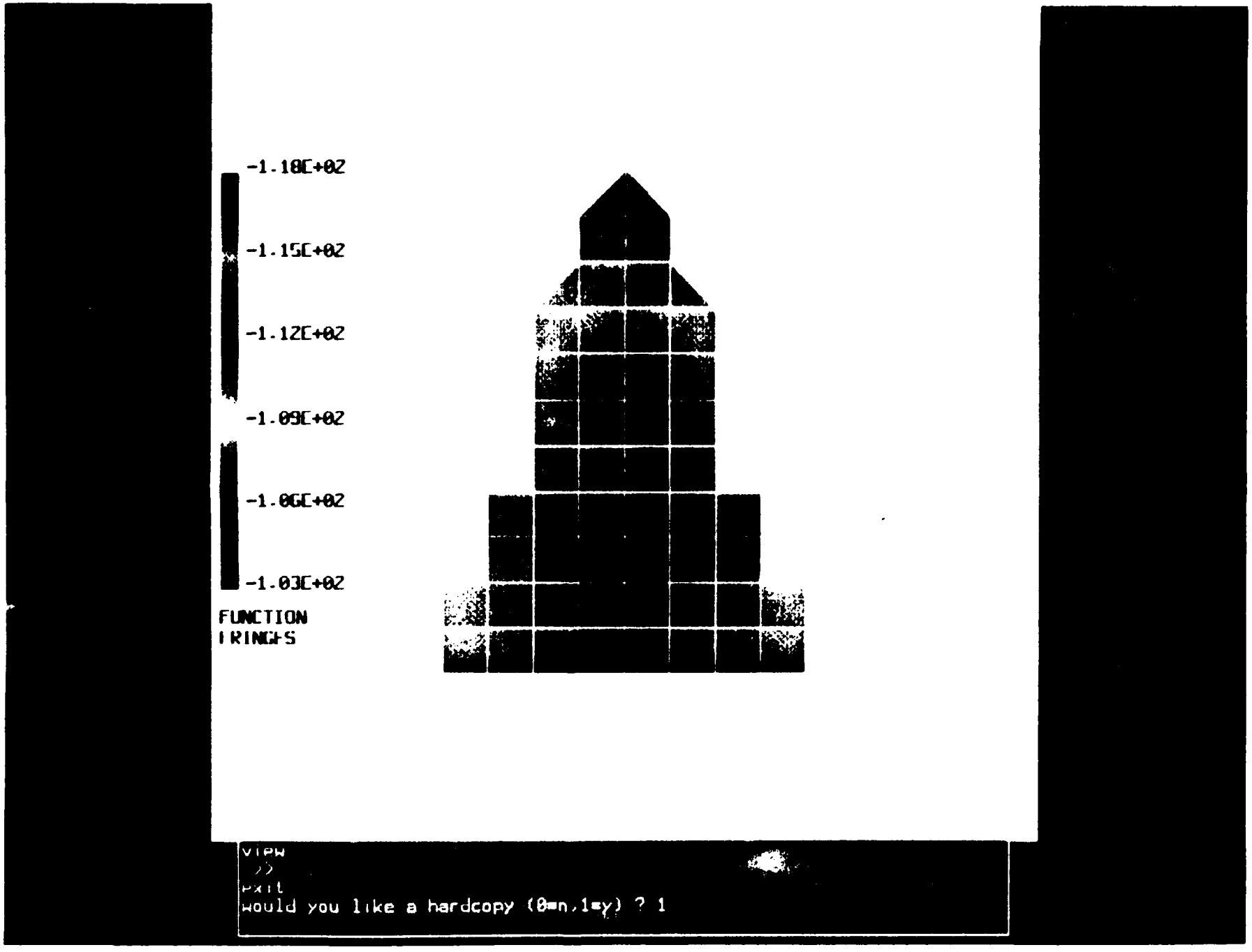
Micro Shuttle POLAR 1.1 Results

```
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   23

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   24

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
 0.00  0.00  0.00  0.00  0.00

                SCRN INFORMATION FOR SLICE IZOB =   25

                -->X IS HORIZONTAL, Y IS VERTICAL<--

                -4    -3    -2    -1     0     1     2     3     4     5     6     7     8     9    10
  15    16    17    18    19
-4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
-1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 0 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 1 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 2 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 3 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 4 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 5 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 6 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 7 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
-4.00 -4.00 -4.00 -4.00  0.00
 8 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
```

Micro Shuttle POLAR 1.1 Results

```
 -4.00 -4.00 -4.00 -4.00  0.00
  9 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
 -4.00 -4.00 -4.00 -4.00  0.00
 10 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
 -4.00 -4.00 -4.00 -4.00  0.00
 11 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
 -4.00 -4.00 -4.00 -4.00  0.00
 12 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
 -4.00 -4.00 -4.00 -4.00  0.00
 13 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
 -4.00 -4.00 -4.00 -4.00  0.00
 14 1.E  0 *   -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00 -4.00
 -4.00 -4.00 -4.00 -4.00  0.00
 15 1.E -1 *    0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
  0.00  0.00  0.00  0.00  0.00
                        END OF SCRN DATA.

                   Normal E field after PWASON


                        THE ENTIRE ENRM DATA IS AS FOLLOWS


                   INFORMATION FOR ENRM LENGTH =    158

     *          0             1             2             3             4             5
     1 -1.546770E+02 -1.546770E+02 -1.004241E+02 -1.004241E+02 -9.176438E+01 -9.176439E+01 -8.314
     9 -1.030636E+02 -1.030636E+02 -9.017591E+01 -9.017592E+01 -1.361801E+02 -6.160282E+01 -6.160
    17 -1.136242E+02 -6.353531E+01 -1.136242E+02 -6.353532E+01 -7.671902E+01 -7.671902E+01 -1.027
    25 -4.706104E+01 -1.027475E+02 -7.129436E+01 -4.803705E+01 -2.704078E+01 -4.803705E+01 -2.704
    33 -1.169007E+02 -1.149508E+02 -1.159793E+02 -1.159793E+02 -1.149508E+02 -1.169007E+02 -9.737
    41 -6.111992E+01 -9.737910E+01 -6.814980E+01 -2.659812E+01 -2.659812E+01 -6.814981E+01 -8.438
    49 -7.983040E+01 -8.438875E+01 -9.210310E+01 -6.351602E+01 -6.351640E+01 -9.210297E+01 -5.936
    57 -2.581549E+01 -5.936524E+01 -8.314968E+01 -7.600382E+01 -7.600385E+01 -8.314969E+01 -7.587
    65 -5.835070E+01 -7.587643E+01 -5.421902E+01 -2.395534E+01 -2.395535E+01 -5.421903E+01 -7.539
    73 -6.907505E+01 -7.539404E+01 -1.438018E+02 -5.731144E+01 -4.883131E+01 -4.883131E+01 -5.731
    81 -1.412176E+02 -3.690331E+01 -2.050376E+01 -2.050363E+01 -3.690332E+01 -1.412176E+02 -6.894
    89 -6.492495E+01 -6.894933E+01 -8.440119E+01 -5.272837E+01 -4.337510E+01 -4.337510E+01 -5.272
    97 -8.002875E+01 -2.854481E+01 -1.907560E+01 -1.364304E+01 -1.907407E+01 -1.364268E+01 -2.854
   105 -7.997646E+01 -7.917997E+01 -6.459001E+01 -4.618757E+01 -7.918165E+01 -7.995758E+01 -1.493
   113 -4.744696E+01 -4.068931E+01 -4.068930E+01 -4.744699E+01 -6.750442E+01 -1.493691E+02 -1.535
   121 -2.923939E+01 -2.923925E+01 -6.456053E+01 -1.535172E+02 -7.285687E+01 -7.248035E+01 -5.995
   129 -6.085452E+01 -9.385258E+01 -1.695843E+02 -9.325324E+01 -6.702955E+01 -5.717182E+01 -5.717
   137 -9.325326E+01 -1.695843E+02 -1.703872E+02 -9.038682E+01 -4.642654E+01 -4.642670E+01 -9.038
   145 -7.313811E+01 -7.317213E+01 -7.075809E+01 -6.971439E+01 -7.072660E+01 -6.927283E+01 -2.046
   153 -1.122626E+02 -7.407135E+01 -7.407157E+01 -1.122630E+02 -8.253761E+01 -8.255796E+01
                        END OF ENRM DATA.


                   INFORMATION FOR SRFV LENGTH =    158

     *          0             1             2             3             4             5
     1 -1.034992E+02 -1.034992E+02 -1.044665E+02 -1.044665E+02 -1.059678E+02 -1.059678E+02 -1.078
     9 -1.073655E+02 -1.073655E+02 -1.078896E+02 -1.078896E+02 -1.134860E+02 -1.154012E+02 -1.153
    17 -1.142506E+02 -1.142796E+02 -1.142506E+02 -1.142796E+02 -1.147242E+02 -1.147242E+02 -1.150
    25 -1.167698E+02 -1.150077E+02 -1.152584E+02 -1.166426E+02 -1.165620E+02 -1.166426E+02 -1.165
    33 -1.161344E+02 -1.154776E+02 -1.169265E+02 -1.169265E+02 -1.154776E+02 -1.161344E+02 -1.159
    41 -1.169501E+02 -1.159601E+02 -1.154740E+02 -1.171598E+02 -1.171598E+02 -1.154740E+02 -1.163
    49 -1.158412E+02 -1.163160E+02 -1.162509E+02 -1.167524E+02 -1.167524E+02 -1.162509E+02 -1.159
    57 -1.170912E+02 -1.159108E+02 -1.161016E+02 -1.161931E+02 -1.161931E+02 -1.161016E+02 -1.163
    65 -1.169601E+02 -1.163093E+02 -1.165304E+02 -1.172543E+02 -1.172543E+02 -1.165304E+02 -1.164
    73 -1.166027E+02 -1.164185E+02 -1.162244E+02 -1.171798E+02 -1.172871E+02 -1.172871E+02 -1.171
    81 -1.162566E+02 -1.167041E+02 -1.175038E+02 -1.175038E+02 -1.167041E+02 -1.162566E+02 -1.171
    89 -1.167217E+02 -1.171302E+02 -1.165486E+02 -1.171277E+02 -1.174790E+02 -1.174790E+02 -1.171
    97 -1.164174E+02 -1.168748E+02 -1.173803E+02 -1.174147E+02 -1.173803E+02 -1.174147E+02 -1.168
   105 -1.171123E+02 -1.171225E+02 -1.159842E+02 -1.159842E+02 -1.171225E+02 -1.171123E+02 -1.088
   113 -1.166789E+02 -1.175304E+02 -1.175304E+02 -1.166789E+02 -1.158459E+02 -1.088940E+02 -1.150
   121 -1.169834E+02 -1.169834E+02 -1.161346E+02 -1.150977E+02 -1.171338E+02 -1.171560E+02 -1.172
   129 -1.172169E+02 -1.170478E+02 -1.145131E+02 -1.157305E+02 -1.166199E+02 -1.172889E+02 -1.173
   137 -1.157305E+02 -1.145131E+02 -1.156042E+02 -1.163329E+02 -1.170259E+02 -1.170260E+02 -1.163
   145 -1.172111E+02 -1.172111E+02 -1.171205E+02 -1.171783E+02 -1.171205E+02 -1.163260E+02 -1.175
   153 -1.175226E+02 -1.173740E+02 -1.173740E+02 -1.175226E+02 -1.164824E+02 -1.164824E+02

***WARNING***openms - MS FILE 11 ALREADY OPEN.
```

```
******* TIMER CALL FROM SCIENC *******

******* AT THE TERMINUS *******
 ELAPSED:     0 00:40:57.71  CPU: 0:32:42.14  BUFIO: 437  DIRIO: 25503  FAULTS: 610
 NEXT CARD PLEASE.
ENDRUN

******* TIMER CALL FROM SCIENC *******

******* AT THE TERMINUS *******
 ELAPSED:     0 00:40:58.31  CPU: 0:32:42.39  BUFIO: 437  DIRIO: 25595  FAULTS: 610
Exit NTERAK
```


-1.18E+02
-1.15E+02
-1.12E+02
-1.09E+02
-1.06E+02
-1.03E+02
FUNCTION
FRINGES
view
>>
exit
Would you like a hardcopy (0=n,1=y) ? 1