



UNITED STATES DEPARTMENT OF COMMERCE
 National Technical Information Service
 5285 Port Royal Road
 Springfield, Virginia 22161

Date 6 August 1981

NTIS Control # _____

TO: Defense Technical Information
 Center - DTIC
 Cameron Station
 Alexandria, Virginia 22314

FROM: NTIS, Input Branch
 5285 Port Royal Road
 Springfield, Virginia 22161

Report # DOD-DF-81-009

ADA # ADA102565

Title: Total Structure Verifier System

Subject report is Standard Process STG report. STG - Special
 Technology Group. Computer Product Follow up date _____

- The report will be accessioned by DDC. The form noting the ADA number is returned.
- The report has been assigned the ADA number noted above and is returned to NTIS for processing.
- DDC will not process the report. It is returned to NTIS

Mag Tape Price 360.00
 PC & MF Price _____

Source DOD A field 3

Stock Quantity _____

Source Share _____

Comments:

field 4 - CP - T05
field 8 - K. 80-22
field 18-19 - DOD-DF-81-009

Dottie Adams

Signature (for billing)

Copy when completed to
 Finance Branch

DOD Report Action Request
 (Replaces NTIS-164 5-72)

Please return to NTIS - Information Services Branch, Room 301, Yorktown Building.
 Attention: Dottie Adams

81 8 07 074

AD A102565

FEDERAL INFORMATION PROCESSING STANDARD SOFTWARE SUMMARY

01. Summary date Yr. Mo. Day 8 10 4 1 4			02. Summary prepared by (Name and Phone) Maj. B. J. Dugan (703)437-2538			03. Summary action New Replacement Deletion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Previous Internal Software ID					
04. Software date Yr. Mo. Day 8 10 10 3 1			05. Software title Total Structure Verifier System (TSVS)			07. Internal Software ID					
06. Short title			08. Software type <input type="checkbox"/> Automated Data System <input checked="" type="checkbox"/> Computer Program <input type="checkbox"/> Subroutine/Module			09. Processing mode <input type="checkbox"/> Interactive <input checked="" type="checkbox"/> Batch <input type="checkbox"/> Combination			10. Application area General <input checked="" type="checkbox"/> Computer Systems Support/Utility <input type="checkbox"/> Scientific/Engineering <input type="checkbox"/> Bibliographic/Textual Management/ Business <input type="checkbox"/> Process Control <input type="checkbox"/> Other Specific Total DBMS Utility		
11. Submitting organization and address Defense Communications Engineering Center 1860 Wiehle Avenue Reston, VA 22090						12. Technical contact(s) and phone Maj. B. J. Dugan (703)437-2538 AUTOVON 364-2538					
13. Narrative The Total Structure Verifier System (TSVS) is a utility which checks TOTAL file internal system fields. TOTAL files have pointer fields matching records within and between files. It is the purpose of the TSVS to check mode with a minimum of user preparation. The TSVS is designed to run in batch mode with a minimum of user preparation. The TSVS will report errors it finds by printing each record in error with a description of the error. The TSVS can find only those errors which are in conflict with the TOTAL file linkage rules. Thus, for example, the TSVS can find an error when a free space record points to an active record, but it cannot find an error when a data field has an incorrect value. In general, the TSVS will find errors of structure, when the TOTAL nucleus routines, while processing through application programs, improperly access records. The TSVS validates the integrity of the individual files without using the data base management system itself. The User's Manual is contained in the first file of the magnetic tape.											
14. Keywords TOTAL; DATA BASE; DBMS											
15. Computer manuf'r and model NASC AS/5-3			16. Computer operating system SVS,MVS			17. Programming language(s) PL/1, ALC			18. Number of source program statements 1500		
19. Computer memory requirements 100K			20. Tape drives 0			21. Disk/Drum units 1			22. Terminals 0		
23. Other operational requirements Total 6.3 or Total 8.0 Data Bases											
24. Software availability Available <input checked="" type="checkbox"/> Limited <input type="checkbox"/> In-house only <input type="checkbox"/> DOD-DF-81-009 DOT/DF-81/005 \$360.00 T05 NAC Software Statement #1						25. Documentation availability Available <input checked="" type="checkbox"/> on tape Inadequate <input type="checkbox"/> In-house only <input type="checkbox"/> DTIC FILE COPY					
26. FOR SUBMITTING ORGANIZATION USE AUG 7 1981 DTIC FILE COPY 4 1511											

COMPUTER MAGNETIC TAPE FILE PROPERTIES

1

01. Completion Date Year Month Day 8 1 0 6 2 3			02. Form Prepared By (Name and Phone) MARK F. AMELL (703) 437-2552			03. Reel ID Number (Property Control No.) U90461		
04. Recording Date Year Month Day 8 1 0 6 2 3			05. File Identifier or Descriptive Title R832.TSVS.USER			06. Short Title (External Label Name) R832.TSVS.USER		
07. Source Unavailable Year Month Day 			08. Documentation Yes No Available <input checked="" type="checkbox"/> <input type="checkbox"/> (Enter Citation) FIRST FILE ON TAPE			09. File Position on Reel 1 of 9		
10. To Be Returned Yes No To Other Than The Sender <input checked="" type="checkbox"/> <input type="checkbox"/>		11. Submitting Organization & Address DCEC/R832 1860 WIENLE AVE. RESTON, Va. 22090			12. Receiving Organization & Address US DEPARTMENT OF COMMERCE NATIONAL TECHNICAL INFO SERVICE SPRINGFIELD, Va. 22161 ATTN: WALTER FINCH			
13. Due Back Date Year Month Day 8 1 0 7 3 1			LEVEL					
14. Technical Contact(s) & Phone Number(s) 2nd Lt MARK F. AMELL (703) 437-2552								

RECORDING SYSTEM CHARACTERISTICS

EQUIPMENT MANUFACTURER AND MODEL	15. Processing Unit ITEL AS/5-3			17. No. of Tracks 7 9 Other			18. Parity Odd Even		19. Density (BPI) 1600
	16. Tape Subsystem IBM 3400-5								
RECORDING SOFTWARE	20. Operating System, Release & Version MVS REL 3.8			22. Internal File Identifier					
	21. Utility Program or Data Base Language IEBGENER								
23. Characters Set (Graphics) <input type="checkbox"/> ASCII <input type="checkbox"/> BCD <input type="checkbox"/> Other (Specify) <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> FIELDATA <input type="checkbox"/> Non-Print Codes			24. Recorded Label (Internal Label) <input type="checkbox"/> Header <input type="checkbox"/> ANSI X 3.27 Standard <input type="checkbox"/> Other <input type="checkbox"/> Trailer <input type="checkbox"/> FIPS Standard <input checked="" type="checkbox"/> None						

FILE CHARACTERISTICS

NUMBER OF RECORDS	25. Physical 63		27. Record Type <input checked="" type="checkbox"/> Fixed Length <input type="checkbox"/> Other Than Fixed		28. Records/Block (Blocking Factor) 39	TYPE OF FILE ORGANIZATION (Check One Box) <input type="checkbox"/> One File One Reel <input type="checkbox"/> One File Multiple Reels <input checked="" type="checkbox"/> Multiple Files One Reel <input type="checkbox"/> Multiple Files Multiple Reels
	26. Logical 2457					
RECORD LENGTH	30. Physical <input type="checkbox"/> Bytes <input checked="" type="checkbox"/> Chars. 3120 <input type="checkbox"/> Words (Bits/Word)					
	31. Logical <input type="checkbox"/> Bytes <input checked="" type="checkbox"/> Chars. 80 <input type="checkbox"/> Words (Bits/Word)					

SUPPLEMENTAL INFORMATION

32. Use/Handling Constraints (Specify if Yes)

Yes	No	
	<input checked="" type="checkbox"/>	

S

DTIC ELECTRONIC

AUG 7 1981

Source tape is in EBCDIC character set. Tapes can be prepared in most standard 7 or 9 track recording modes for 1/2 inch tape. Identify recording mode desired by specifying character set, track, density and parity. Call NTIS Computer Products, if you have any questions.

///JOB CARD

```
///STEP1 EXEC PGM=IEBFIPCH,REGION=80K
///SYSPRINT DD SYSOUT=A
///SYSUT1 DD DSN=R032.TSVS.USER,UNIT=TAPE9,DISP=OLD,
///DCB=(RECFM=FBA,LRECL=80,BLKSIZE=3120),
///VOL=SER=000303,LABEL=(1,NL)
///SYSCAT DD SYSCAT=A,DCB=BLKSIZE=133
///SYSIN DD *
PRINT PREFORM=A
/*
```

NOTES:

1. USER/INSTALLATION GUIDES CCNTAIN UPPER/LOWER CASE CHARACTERS.
2. TAPE FILE #9 CCNTAINS TOTALS SOURCE CODE CHANGES.
(ORIGINAL IS FOR TOTAL 6.3)
DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
3. REFERENCE PAGE 7 OF INSTALLATION GUIDE: ADD 'LABEL=(,NL)'
TO TAPE DD STATEMENT.

TOTAL NUMBER OF LINES 000031.

Approved: _____
Name: GRAB1 ✓
Date: _____
Unit: _____
\$ 360.00 NTIS
A 21

DATE 8/5/81

TO: Input Branch

FROM: Computer Products Group M. Henson
Init.

RE: ^{DOD} ~~DF~~/DF-81/009 ~~005~~. Announce in GRA&I

Priority action required Yes NO

Attached

- Form NTIS ~~221~~ 185
- Form 277
- NTIS 79 completed as required
- RDP
- Consigned Inventory Acquisition Form
(Interagency agreement number and split)

Process for

- | | |
|--------|--|
| K File | <input type="checkbox"/> Documentatio |
| | <input type="checkbox"/> Mag Tape |
| H File | <input type="checkbox"/> Documentatio |
| | <input checked="" type="checkbox"/> Mag Tape |

Action

- Loan Document Form attached
- Defense sponsored. Acquire ADA number
- Highlight document. Blue slip attached
- Order Pending. Return immediately after copying
necessary pages
- Supersedes _____

Remarks:

Note: FORM REQUIRED FOR EACH ITEM
PACKAGE RELATED ITEMS AND PAPERS