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**HUMAN
RESOURCES**

ADVANCED ON-THE-JOB TRAINING SYSTEM:
SYSTEM SUPPORT COMPUTER PROGRAM CONFIGURATION ITEM

Douglas Aircraft Company
A Division of McDonnell Douglas Corporation
2450 South Peoria
Aurora, Colorado 80014

TRAINING SYSTEMS DIVISION
Brooks Air Force Base, Texas 78235-5601

April 1990
Interim Technical Paper for Period August 1985 - December 1989

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LABORATORY

**AIR FORCE SYSTEMS COMMAND
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This paper has been reviewed and is approved for publication.

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13. ABSTRACT (Maximum 200 words) This paper provides performance and design requirements for the complete identification of the System Support Computer Program Configuration Item (CPCI) of the Advanced On-the-job Training System (AOTS). The System Support CPCI is required by the other CPCIs to interface with the Hardware Component. <i>Keywords:</i>				
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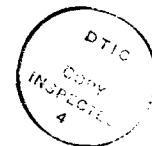
Reviewed and submitted for publication by

Jack L. Blackhurst, Major, USAF
Chief, Advanced On-the-job Training System Program

This publication is primarily a working paper. It is published solely to document work performed.

SUMMARY

The Advanced On-the-job Training System (AOTS) was an Air Staff directed, AFHRL developed, prototype system which designed, developed, and tested a proof-of-concept prototype AOTS within the operational environment of selected work centers at Bergstrom AFB, Texas and Ellington ANGB, Texas from August 1985 through 31 July 1989. This report provides the requirements for the complete identification of the System Support Computer Program Configuration Item (CPCI) of the software component of the AOTS. The System Support CPCI is required by the other CPCIs to interface with the Hardware Component.



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PREFACE

This specification report establishes the requirements for complete identification of the System Support Computer Program Configuration Item (CPCI) for the software component of the Advanced On-the-job Training System (AOTS) Computer Support System. This document was developed by the contractors on the project, Douglas Aircraft Company (Contract No. F33615-84-C-0059). The AFHRL Work Unit number for the project is 2557-00-02. The primary office of responsibility for management of the work unit is the Air Force Human Resources Laboratory, Training Systems Division, and the Air Force AOTS manager is Major Jack Blackhurst.

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1. SCOPE

1.1 Identification. This specification establishes the requirements for complete identification of the System Support Computer Program Configuration Item (CPCI) of the software component of the Advanced On-the-job Training System (AOTS) Computer Support Subsystem.

1.2 Functional Summary. The System Support CPCI shall be composed of the functions required by the other CPCIs to interface with the Hardware Component, described in 70S647401. This CPCI shall perform operating system functions, terminal communication, and data base input/output, and shall provide security functions by controlling access to the system. Purchased software such as a compiler, an editor, and a statistical analysis package shall be part of this CPCI. Also a part of this CPCI shall be utility software common to the other CPCIs.

2. APPLICABLE DOCUMENTS

2.1 Government Documents. The following documents of the exact issue shown form a part of this specification to the extent specified herein. In the event of conflict between the documents referenced and the contents of this specification, the contents of this specification shall be the superceding requirement, with the exception of the AOTS System Specification.

SPECIFICATIONS:

70S647000	System Specification for the Advanced On-the-job Training System
70S647100	Prime Item Development Specification for the Management Subsystem of the Advanced On-the-job Training System
70S647200	Prime Item Development Specification for the AOTS Training Development and Delivery Subsystem
70S647202	Critical Item Development Specification for the Training Delivery Component of the AOTS Training Development and Delivery Subsystem
70S647300	Prime Item Development Specification for the AOTS Evaluation Subsystem
70S647400	Prime Item Development Specification for the Computer Support Subsystem of the Advanced On-the-job Training System
70S647401	Critical Item Development Specification for the Hardware Component of the Advanced On-the-job Training System
70S647411	AOTS Management Computer Program Configuration Item Development Specification
70S647412	AOTS Training Development and Delivery Computer Program Configuration Item Development Specification
70S647413	AOTS Evaluation Computer Program Configuration Item Development Specification
STAND-109 23 April 85	Computer Program Product Specification for the ISS Support Environment

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STANDARDS:

MIL-STD-483 Configuration Management Practices for
(USAF) Systems, Equipment, Munitions, and Computer
21 March 79 Programs
MIL-STD-1815A Reference Manual for the ADA Programming
1983 Language

OTHER PUBLICATIONS:

AOTS Software Development Plan
AOTS Software Test Plan
AOTS Human Engineering Program Plan

2.2 Non-Government Documents

OTHER PUBLICATIONS:

Gane, Chris and Sarson, Trish
Structured Systems Analysis:- Tools and
Techniques, October 1977
International Business Machines Corporation
HIPO - A Design Aid and Documentation
Technique, May 1975

3. REQUIREMENTS

This section contains performance and design requirements for the AOTS System Support CPCI.

3.1 CPCI Structural Description. This CPCI shall be broken down into six major subdivisions. These subdivisions are: Off the Shelf Software, Virtual Machine Interface, Application Support Environment, Access Control, Terminal Support Software, and Utilities. Each subdivision is divided into functions which together provide the automated support for the subdivision.

Off the Shelf Software shall consist of the purchased or leased system software that is required to provide computer support to the AOTS. The Virtual Machine Interface shall provide the Application Support Environment with interfaces to the host operating system. The Application Support Environment shall provide terminal and file management input/output functions, math routines, and program control and communication services to the Management, Evaluation, and Training Development and Delivery CPCIs. Access Control shall manage user entry to the AOTS computer system, provide authorization for users to access programs, and control the file access permissions and data access that a user is allowed within a program. Terminal Support Software shall consist of software packages required to support the AOTS terminal. Utilities shall provide support software common to the other CPCIs.

The six subdivisions are identified in figure 1 in a hierarchical manner. This Hierarchy plus Input-Processing-Output (HIPO) diagram provides a visual table of contents for the CPCI (see HIPO - A Design Aid and Documentation Technique, IBM, 1975). Only the highest level of HIPO diagram is used here: the Visual Table of Contents.

3.1.1 CPC Descriptions. The six subdivisions of the System Support CPCI are described below by specifying the further breakdown of the CPCI into the individual CPCs that comprise the CPCI. These CPCs are listed by CPC number to provide the reference to the detail design in 3.10. The configuration management (CM) identification and the actual Ada name is also supplied for each CPC. The CM identifications are based on the format specified in the AOTS Configuration Management Plan.

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3.1.1.1 Off the Shelf Software. The Off the Shelf Software subdivision is composed of the following CPCs:

<u>CPC No</u>	<u>CM Id</u>	<u>Name</u>
1		VAX/VMS OPERATING SYSTEM
2		VAX/ADA COMPILER
3		VAX FORTRAN
5		ALSYS ADA COMPILER
6		MS-DOS OPERATING SYSTEM
7		ZDS ZSTEM

3.1.1.2 Virtual Machine Interface. The Virtual Machine Interface subdivision is existing ISS software and is composed of the following CPCs:

<u>CPC No</u>	<u>CM Id</u>	<u>Name</u>
4		ISS SUPPORT ENVIRONMENT

3.1.1.3 Application Support Environment. The Application Support Environment subdivision is existing ISS software and is composed of the following CPCs:

<u>CPC No</u>	<u>CM Id</u>	<u>Name</u>
4		ISS SUPPORT ENVIRONMENT

3.1.1.4 Access Control

<u>CPC No</u>	<u>CM Id</u>	<u>Name</u>
8	SUP024S, SUP024B	RANDOM_PASSWORD
9	SUP026S, SUP026B	USER_TYPE
10	SUP027P	AOTS_LOGON

3.1.1.5 Terminal Support Software. The Terminal Support Software subdivision shall consist of the following CPCs:

CPC No	CM Id	Name
11	SUP010P	TERMINAL
12	SUP011P	SCREEN_DUMP
13	SUP012S, SUP012B	COM_PORTS
14	SUP013S, SUP013B	KEYBOARD
15	SUP015S, SUP015B	KBD
16	SUP016S, SUP016B	ASMINT
17	SUP017S, SUP017B	GRBAS
18	SUP018A	COM_CODE
19	SUP019A	GRAF_CODE
20	SUP020P	PATH_OPEN
21	SUP021S, SUP021B	HP_SETUP
22	SUP022S, SUP022B	OKI_SETUP
23	SUP023S, SUP023B	ALPS_SETUP
39	SUP036P	DOS_PATH_OPEN
40	SUP037A	LOGICAL
41	SUP038P	CALIBRATE
42	SUP039S, SUP039B	TOUCH
43	SUP040P	SETOMODE
44	SUP041S, SUP041B	SONY
45	SUP042S, SUP042B	IVD

3.1.1.6 Utilities Software. The Utilities Software subdivision shall consist of the following CPCs:

CPC No	CM Id	Name
24	SUP001S, SUP001B	SCREEN_IO
25	SUP004S, SUP004B	LISTPKG
26	SUP005S, SUP005B	EDFIELD
27	SUP006S, SUP006B	UTILITIES
28	SUP007S, SUP007B	DATE_TIME
29	SUP009S, SUP009B	HELPTTEXT
30	SUP014S, SUP014B	EXPRESSION_HANDLER
31	SUP028S, SUP028B	ITEM_EDITOR
32	SUP029S, SUP029B	ITEM_SUP_TYPES
33	SUP030S	GLOBALS
34	SUP031S, SUP031B	PRINT_SUPPORT
35	SUP032S, SUP032B	LOG_IO
36	, SUP033B	DMSF
37	SUP034P	CALL_DCL
38	SUP035S, SUP035B	SWAP_EMULATORS

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3.1.2 CPC Relationships. The functional requirements of the System Support CPCI as specified in the Part I System Support CPCI Specification shall be accomplished via the CPCs identified in 3.1.1. Table 1 contains a list of these requirements and the CPC that will accomplish them. The relationship of the System Support CPCI and its CPCs is described in 3.2.

3.2 Functional Flow Diagrams/Charts. The ADL included in the Unit Development Folder (UDF) describes the functional flow of the System Support CPCI. Appendix B contains graphic charts depicting the CPCs referenced by each CPC in the CPCI and showing the CPCs referencing each CPC. These charts provide a quick index into the detailed design provided in the ADL of the UDF.

3.3 Interfaces

3.3.1 Interface Requirements

3.3.2 Detailed Interface Definition. The functional interfaces between the System Support CPCI and the other software CPCIs are described below.

3.3.2.1 Terminal Input/Output. The System Support CPCI shall provide functions to the other AOTS CPCIs for performing terminal input/output. The Terminal Communication software described in paragraph 3.2.3.4 shall accomplish this interface. The terminal i/o services provided shall include the following:

- A. Accepting input from a terminal keyboard;
- B. Accepting coordinate data from a digitizer tablet;
- C. Sending text data to a terminal screen;
- D. Sending graphics data to a terminal screen;
- E. Accepting mark reader input.

3.3.2.2 Data Base Input/Output. The System Support CPCI shall provide functions to the other AOTS CPCIs for performing data base input/output. The Data Management software described in paragraph 3.2.3.3 shall accomplish this interface. The data base i/o services shall fall into two categories: file level and record level functions. File level services shall include the following.

- A. Allocation and deallocation of indexed sequential, direct access, and sequential files;
- B. Logically attaching (opening) and detaching (closing) files to/from a program;
- C. Removing (purging) all existing data from a file.

Record level input/output services shall include the following:

- A. Reading a record;
- B. Writing a record;
- C. Deleting a record;
- D. Reserving and releasing a record for/from exclusive use;
- E. Updating an existing record.

3.3.2.3 System Services. The System Support CPCI shall provide functions to the other AOTS CPCIs for performing system services. The Program Control software described in paragraph 3.2.3.1 shall accomplish this interface. The services provided shall include the following miscellaneous functions:

- A. Initiating and terminating program execution;
- B. Communicating between programs;
- C. Allocating and deallocating memory;
- D. Clock and timer services;
- E. Printer output functions.

3.3.2.4 Access Control. The System Support CPCI shall provide access control functions to the other AOTS CPCIs. The Security Interface software described in paragraph 3.2.4.3 shall provide these functions. The functions shall include identifying and validating a person as a user of the AOTS, determining the authorization characteristics of the user, and determining what data a user has access to.

3.3.2.5 Text Editing. The System Support CPCI shall provide text editing functions to the other AOTS CPCIs. The Off the Shelf Software, Text Editor, described in paragraph 3.2.1.3 shall provide source editing functions which will be used during software development and testing.

3.3.2.6 Compilations. The System Support CPCI shall provide software compilation functions to the other AOTS CPCIs. The Off the Shelf Software, Compilers, described in paragraph 3.2.1.2 shall provide the program and module compilation functions which will be used during software development and testing.

3.3.2.7 Airman Information. The System Support CPCI shall utilize a function, the Airman Data Access Function, provided by the Management CPCI for accessing ATR and ITR data for airmen. Airman identification shall be used as input to this function. Output shall be the ATR and/or ITR data for the airman.

3.4 Program Interrupts. Not applicable.

3.5 Timing and Sequencing Description. Sequencing of the programs is not dynamically controlled. As such no special considerations, other than the sequencing described in section 3.10 is needed.

3.6 Special Control Features. Not applicable.

3.7 Storage Allocation

3.7.1 Data Base Definition

3.7.1.1 File Description.

CPC Name	File	Access Record Type Assoc
1 VAX/VMS OPERATING SYSTEM		
2 VAX/ADA COMPILER		
3 VAX FORTRAN		
4 ISS SUPPORT ENVIRONMENT		
5 ALSYS ADA COMPILER		
6 MS-DOS OPERATING SYSTEM		
7 ZDS ZSTEM		
8 RANDOM PASSWORD		
9 USER_TYPE	SUP026XD IN/OUT	USER_TYPE.VALID_USERS_REC_TYPE
	SUP026XI IN/OUT	USER_TYPE.SUPERVISOR_TYPE
	SUP026YI IN	USER_TYPE.SSN_AND_NAME_TYPE
10 AOTS_LOGON	SYSTEMLOG OUT	LGTYPE.LOG_REC_TYPE
	AUSRUSR OUT	A01USRNAM.USER_REC_TYPE
	CTLFILE IN	LGTYPE.CTL_REC_TYPE
	ADASECURE OUT	SACCESS.IMSEC_REC_TYPE
	ADAGRAPH IN	GRTYPES.DRAWING_TYPE
11 TERMINAL		
12 SCREEN_DUMP		
13 COM_PORTS	COMSETUP.DAT IN/OUT	STRING
	COMSETUP.IVD IN/OUT	STRING
14 KEYBOARD		
15 KBD		
16 ASMINT		
17 GRBAS		
18 COM_CODE		
19 GRAF_CODE		
20 PATH_OPEN		
21 HP_SETUP		
22 OKI_SETUP		
23 ALPS_SETUP		
24 SCREEN_IO		
25 LISTPKG		
26 EDFIELD		
27 UTILITIES		
28 DATE_TIME		
29 HELPTXT	SUP009IA IN/OUT	HELPTXT.HELP_RECORD_TYPE

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<u>CPC Name</u>	<u>File</u>	<u>Access Record Type Assoc</u>
30 EXPRESSION_HANDLER		
31 ITEM_EDITOR		
32 ITEM_SUP_TYPES		
33 GLOBALS		
34 PRINT_SUPPORT	SUP031AS IN	STRING
	MGT032DI IN	ATR.ATR_TYPE
35 LOG_IO	EVENT.LOG OUT	STRING
36 DMSF		
37 CALL_DCL		
38 SWAP_EMULATORS	TDEFIL	IN DVI.TDEFILMAPTYPE
		DVI.TERMINALDEVICEMAPTYPE
		DVI.TERMINALNAMEMAPTYPE
		DVI.TERMINALCOMPONENTMAPTYPE
	SUP035AS OUT	STRING
39 DOS_PATH_OPEN		
40 LOGICAL		
41 CALIBRATE	CALIB.DAT OUT	STRING
42 TOUCH	CALIB.DAT IN	STRING
43 SETOMODE		
44 SONY		
45 IVD		

3.7.1.2 Table Description. Not applicable.

3.7.1.3 Item Description. The composite structures in the data base are identified in 3.7.1.1 with direct references to the CPC defining the structure. The structures and thus the items in the structure are described in the ADL included in the Unit Development Folder (UDF).

3.7.1.4 Graphic Table Description. Not applicable.

3.7.1.5 CPCI Constants. There are no global CPCI constants. The Ada visibility rules determine the extent of the visibility of the constants defined in the individual CPCs. The CPC detailed descriptions in section 3.10 identify the constants defined and the scope of the visibility of these constants. The ADL provided should be reviewed for proper end usage of any constant.

3.8 Object Code Creation. Object code shall be created using the hardware identified in the System Support CPCI Part I specification in section 3.1.1. The computer programs required, hardware information, and procedures required are as shown in the documentation for the related government furnished hardware and software.

3.9 Adaptation Data. Not applicable.

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3.10 Detail Design Description

3.10.1 Identification of CPC No. 1. This CPC is composed of the VAX/VMS Operating System on the VAX 8600 located at Brooks Air Force Base. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Digital Equipment Corporation. The version of the operating system supplied is 4.7.

3.10.2 Identification of CPC No. 2. This CPC is composed of the VAX/Ada Compiler on the VAX 8600 located at Brooks Air Force Base. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Digital Equipment Corporation. The version of the operating system supplied is 1.5.

3.10.3 Identification of CPC No. 3. This CPC is composed of the VAX Fortran Compiler on the VAX 8600 located at Brooks Air Force Base. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Digital Equipment Corporation. The version of the operating system supplied is 4.8.

3.10.4 Identification of CPC No. 4. This CPC is composed of the ISS Support Environment. This CPC is supplied as government furnished software and is described in the "Final Computer Program Product Specification for the Instructional Support Software System Support Environment" (STAND-109, 23 April 1985).

3.10.5 Identification of CPC No. 5. This CPC is composed of the Alslys Ada Compiler operating on IBM PC/AT and compatibles (including the Zenith Data Systems Z248). This CPC is described in the supporting documentation distributed by Alslys, Inc. The version of the compiler is Version 1.2.

3.10.6 Identification of CPC No. 6. This CPC is composed of the MS-DOS Operating System to operate on the Zenith Data Systems Z248 microcomputer. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Zenith Data Systems. The version of the operating system is Version 3.1.

3.10.7 Identification of CPC No. 7. This CPC is composed of the ZDS ZSTEM terminal emulation software of operate on the Zenith Data Systems Z248 microcomputer. This CPC is supplied as government furnished software and is described in the supporting

documentation distributed by Zenith Data Systems. The version of the emulator is Version 2.

3.10.8 Identification of CPC No. 8. This CPC is composed of the Ada package designated by CM identification code SUP024S and SUP024B and named RANDOM_PASSWORD.

3.10.8.1 CPC No. 8 Description. The purpose of this package is to generate the secure password for the User and to validate the user on the system.

3.10.8.2 CPC No. 8 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.8.3 CPC No. 8 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.8.4 CPC No. 8 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.8.5 CPC No. 8 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.8.6 CPC No. 8 Listing. The current listing of this CPC is provided in the UDF.

3.10.9 Identification of CPC No. 9. This CPC is composed of the Ada package designated by CM identification code SUP026S and SUP026B and named USER_TYPE.

3.10.9.1 CPC No. 9 Description. This package shall provide utilities for the user interface to the system and the user information to other packages. This package shall also provide the supervisor list and capabilities such as defining, removing of the list and selecting an individual from the list.

3.10.9.2 CPC No. 9 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.9.3 CPC No. 9 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.9.4 CPC No. 9 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.9.5 CPC No. 9 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.9.6 CPC No. 9 Listing. The current listing of this CPC is provided in the UDF.

3.10.10 Identification of CPC No. 10. This CPC is composed of the Ada procedure designated by CM identification code SUP027P and named AOTS_LOGON.

3.10.10.1 CPC No. 10 Description. This package shall integrate all the AOTS softwares, interface users to the system and provide interface between ISS softwares and ISS system utilities to the AOTS system.

3.10.10.2 CPC No. 10 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.10.3 CPC No. 10 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.10.4 CPC No. 10 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the

UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.10.5 CPC No. 10 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.10.6 CPC No. 10 Listing. The current listing of this CPC is provided in the UDF.

3.10.11 Identification of CPC No. 11. This CPC is composed of the Ada procedure designated by CM identification code SUP010P and named TERMINAL.

3.10.11.1 CPC No. 11 Description. This procedure shall provide the capability to use the Z-248 (and compatibles) as a high resolution color graphics terminal. This terminal emulator shall also provide the capability to perform screen prints on the AOTS supported printers.

3.10.11.2 CPC No. 11 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.11.3 CPC No. 11 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.11.4 CPC No. 11 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.11.5 CPC No. 11 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.11.6 CPC No. 11 Listing. The current listing of this CPC is provided in the UDF.

3.10.12 Identification of CPC No. 12. This CPC is composed of the Ada procedure designated by CM identification code SUP011P

and named SCREEN_DUMP.

3.10.12.1 CPC No. 12 Description. Screen_Dump shall provide the capability to dump the current Z-248 screen display generated from the terminal emulator to any of the AOTS supported printers.

3.10.12.2 CPC No. 12 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.12.3 CPC No. 12 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.12.4 CPC No. 12 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.12.5 CPC No. 12 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.12.6 CPC No. 12 Listing. The current listing of this CPC is provided in the UDF.

3.10.13 Identification of CPC No. 13. This CPC is composed of the Ada package designated by CM identification code SUP012S and SUP012B and named COM_PORTS.

3.10.13.1 CPC No. 13 Description. Com_Ports shall provide the interface to the Z-248 communications ports to read the data from the host and other devices connected to alternate ports in a full eight bit binary mode.

3.10.13.2 CPC No. 13 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.13.3 CPC No. 13 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross

reference tables identifying the CPCs that interface to this CPC.

3.10.13.4 CPC No. 13 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.13.5 CPC No. 13 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.13.6 CPC No. 13 Listing. The current listing of this CPC is provided in the UDF.

3.10.14 Identification of CPC No. 14. This CPC is composed of the Ada package designated by CM identification code SUP013S and SUP013B and named KEYBOARD.

3.10.14.1 CPC No. 14 Description. This package shall accept input from the terminal recognizing keypresses defined to be specific functions.

3.10.14.2 CPC No. 14 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.14.3 CPC No. 14 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.14.4 CPC No. 14 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.14.5 CPC No. 14 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.14.6 CPC No. 14 Listing. The current listing of this CPC is provided in the UDF.

3.10.15 Identification of CPC No. 15. This CPC is composed of the Ada package designated by CM identification code SUP015S and SUP015B and named KBD.

3.10.15.1 CPC No. 15 Description. This package shall provide the capability to read user keypresses as either 8 bit fields supporting all function keys or as standard characters. Support for use of soft key translations is also provided.

3.10.15.2 CPC No. 15 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.15.3 CPC No. 15 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.15.4 CPC No. 15 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.15.5 CPC No. 15 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.15.6 CPC No. 15 Listing. The current listing of this CPC is provided in the UDF.

3.10.16 Identification of CPC No. 16. This CPC is composed of the Ada package designated by CM identification code SUP016S and SUP016B and named ASMINT.

3.10.16.1 CPC No. 16 Description. AsmInt shall provide the interface to several assembler routines. These routines provide functionality not directly available in Ada or needing extreme performance improvements.

3.10.16.2 CPC No. 16 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.16.3 CPC No. 16 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.16.4 CPC No. 16 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.16.5 CPC No. 16 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.16.6 CPC No. 16 Listing. The current listing of this CPC is provided in the UDF.

3.10.17 Identification of CPC No. 17. This CPC is composed of the Ada package designated by CM identification code SUP017S and SUP017B and named GRBAS.

3.10.17.1 CPC No. 17 Description. GrBas shall provide support for low-level screen control on the Z-248 by providing an interface to the EGA card and basic graphic functions.

3.10.17.2 CPC No. 17 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.17.3 CPC No. 17 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.17.4 CPC No. 17 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the

UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.17.5 CPC No. 17 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.17.6 CPC No. 17 Listing. The current listing of this CPC is provided in the UDF.

3.10.18 Identification of CPC No. 18. This CPC is composed of the assembly language source code designated by CM identification code SUP018A and named COM_CODE.

3.10.18.1 CPC No. 18 Description. Com_Code shall provide interrupt and low level support for the communications ports on the Zenith Z248 system.

3.10.18.2 CPC No. 18 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.18.3 CPC No. 18 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF.

3.10.18.4 CPC No. 18 Data Organization. The data organization of this CPC is detailed in the ASM source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.18.5 CPC No. 18 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the ASM source code provided in the UDF. No other limitations exist for this CPC except those defined in the ASM source code.

3.10.18.6 CPC No. 18 Listing. The current listing of this CPC is provided in the UDF.

3.10.19 Identification of CPC No. 19. This CPC is composed of the assembly language source code designated by CM identification code SUP019A and named GRAF_CODE.

3.10.19.1 CPC No. 19 Description. Graf_Code shall provide interrupt and low level support for the graphics display functions

on the Zenith Z248 system.

3.10.19.2 CPC No. 19 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.19.3 CPC No. 19 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF.

3.10.19.4 CPC No. 19 Data Organization. The data organization of this CPC is detailed in the ASM source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.19.5 CPC No. 19 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the ASM source code provided in the UDF. No other limitations exist for this CPC except those defined in the ASM source code.

3.10.19.6 CPC No. 19 Listing. The current listing of this CPC is provided in the UDF.

3.10.20 Identification of CPC No. 20. This CPC is composed of the Ada procedure designated by CM identification code SUP020P and named PATH_OPEN.

3.10.20.1 CPC No. 20 Description. This package shall provide the capability to open an Ada Text_IO file by searching the PATH environment variable and using the first occurrence of the file found along this PATH.

3.10.20.2 CPC No. 20 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.20.3 CPC No. 20 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.20.4 CPC No. 20 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.20.5 CPC No. 20 Limitations. The limitations of this CPC

or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.20.6 CPC No. 20 Listing. The current listing of this CPC is provided in the UDF.

3.10.21 Identification of CPC No. 21. This CPC is composed of the Ada package designated by CM identification code SUP021S and SUP021B and named HP_SETUP.

3.10.21.1 CPC No. 21 Description. HP_Setup shall provide the capability to set various options on the HP Laserjet printer and provide the interface to allow printing of graphics or text either direct to the printer or to a file for later printing.

3.10.21.2 CPC No. 21 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.21.3 CPC No. 21 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.21.4 CPC No. 21 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.21.5 CPC No. 21 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.21.6 CPC No. 21 Listing. The current listing of this CPC is provided in the UDF.

3.10.22 Identification of CPC No. 22. This CPC is composed of the Ada package designated by CM identification code SUP022S and SUP022B and named OKI_SETUP.

3.10.22.1 CPC No. 22 Description. Oki_Setup shall provide the

capability set various options on the Okimate 20 color printer and provide the interface to allow printing of graphics or text either direct to the printer or to a file for later printing.

3.10.22.2 CPC No. 22 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.22.3 CPC No. 22 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.22.4 CPC No. 22 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.22.5 CPC No. 22 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.22.6 CPC No. 22 Listing. The current listing of this CPC is provided in the UDF.

3.10.23 Identification of CPC No. 23. This CPC is composed of the Ada package designated by CM identification code SUP023S and SUP023B and named ALPS_SETUP.

3.10.23.1 CPC No. 23 Description. ALPS_Setup shall provide the capability to interface to the ALPS P2000 printer in a text and graphics mode and to provide both direct and file output capability.

3.10.23.2 CPC No. 23 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.23.3 CPC No. 23 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross

reference tables identifying the CPCs that interface to this CPC.

3.10.23.4 CPC No. 23 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.23.5 CPC No. 23 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.23.6 CPC No. 23 Listing. The current listing of this CPC is provided in the UDF.

3.10.24 Identification of CPC No. 24. This CPC is composed of the Ada package designated by CM identification code SUP001S and SUP001B and named SCREEN_IO.

3.10.24.1 CPC No. 24 Description. This package shall provide a common set of routines for field processing and displaying messages throughout AOTS.

3.10.24.2 CPC No. 24 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.24.3 CPC No. 24 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.24.4 CPC No. 24 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.24.5 CPC No. 24 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.24.6 CPC No. 24 Listing. The current listing of this CPC is provided in the UDF.

3.10.25 Identification of CPC No. 25. This CPC is composed of the Ada package designated by CM identification code SUP004S and SUP004B and named LISTPKG.

3.10.25.1 CPC No. 25 Description. This package shall provide a set of subprograms to manage a list of elements on a queue.

3.10.25.2 CPC No. 25 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.25.3 CPC No. 25 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.25.4 CPC No. 25 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.25.5 CPC No. 25 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.25.6 CPC No. 25 Listing. The current listing of this CPC is provided in the UDF.

3.10.26 Identification of CPC No. 26. This CPC is composed of the Ada package designated by CM identification code SUP005S and SUP005B and named EDFIELD.

3.10.26.1 CPC No. 26 Description. This package shall provide the routines necessary to edit a field, display a field, and break the field buffer into displayable strings of the correct size on word boundaries. The editing functions allow full screen cursor positioning within a field movement of the cursor forward and backward by word insertion and overwriting of text and dele-

tion of text by character, word, and line.

3.10.26.2 CPC No. 26 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.26.3 CPC No. 26 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.26.4 CPC No. 26 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.26.5 CPC No. 26 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.26.6 CPC No. 26 Listing. The current listing of this CPC is provided in the UDF.

3.10.27 Identification of CPC No. 27. This CPC is composed of the Ada package designated by CM identification code SUP006S and SUP006B and named UTILITIES.

3.10.27.1 CPC No. 27 Description. Provide a set of AOTS Utilities to do string matching and sorting.

3.10.27.2 CPC No. 27 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.27.3 CPC No. 27 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.27.4 CPC No. 27 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the

UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.27.5 CPC No. 27 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.27.6 CPC No. 27 Listing. The current listing of this CPC is provided in the UDF.

3.10.28 Identification of CPC No. 28. This CPC is composed of the Ada package designated by CM identification code SUP007S and SUP007B and named DATE_TIME.

3.10.28.1 CPC No. 28 Description. Supply necessary Date and Time management procedures.

3.10.28.2 CPC No. 28 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.28.3 CPC No. 28 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.28.4 CPC No. 28 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.28.5 CPC No. 28 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.28.6 CPC No. 28 Listing. The current listing of this CPC is provided in the UDF.

3.10.29 Identification of CPC No. 29. This CPC is composed of

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the Ada package designated by CM identification code SUP009S and SUP009B and named HELPTTEXT.

3.10.29.1 CPC No. 29 Description. This package shall provide the ability for the user to view textual information developed by the Help editing procedure as an aid in responding to system demands for user input. Users accessing Help displays through a means other than procedure Helper will, if their system permissions are sufficient, be allowed to change any data they request be displayed. An appropriate temporary screen will be presented to users so authorized at the time of their entry into the Help procedure. No additions or deletions of Help records will be permitted during such access.

3.10.29.2 CPC No. 29 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.29.3 CPC No. 29 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.29.4 CPC No. 29 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.29.5 CPC No. 29 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.29.6 CPC No. 29 Listing. The current listing of this CPC is provided in the UDF.

3.10.30 Identification of CPC No. 30. This CPC is composed of the Ada package designated by CM identification code SUP014S and SUP014B and named EXPRESSION_HANDLER.

3.10.30.1 CPC No. 30 Description. This package shall provide the capability to request an expression from the users terminal, validate the expression and subsequently evaluate the expression.

Expression in the context used here is a combination of logical, numeric, character, or string field names combined with several basic operators to produce a single result of logical or numeric. All field names within the expression are limited to a maximum of 40 characters consisting of 'A'-'Z', '_', and '0'-'9' and are case insensitive with all characters converted to upper case. Constant values used in the expression are limited to 40 characters if string or else the valid ranges for the base type of the constant.

3.10.30.2 CPC No. 30 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.30.3 CPC No. 30 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.30.4 CPC No. 30 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.30.5 CPC No. 30 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.30.6 CPC No. 30 Listing. The current listing of this CPC is provided in the UDF.

3.10.31 Identification of CPC No. 31. This CPC is composed of the Ada package designated by CM identification code SUP028S and SUP028B and named ITEM_EDITOR.

3.10.31.1 CPC No. 31 Description. This package shall provide the routines used to display or edit an array of items, and select one of an array of items. The item definition record passed to the `display_or_edit_text` procedure and the `display_or_select_item` procedure defines the number of items in each column of the editor, the number of total items on the screen, the column offset for multiple columns on one screen, the

first row used by the editor, the number of lines used by one item, the number of fields used by one item, and an array of booleans that defines which fields are active in an item. The editing operations on item strings supported are: modify an item, insert an item before the current item, add an item to the end, and delete an item. The screen title string is displayed and the screen designator string is automatically incremented. The fields that this item editor uses are sequential from one to the maximum number needed to display one screen. This means each user should start their own field id's after the maximum used in the item editor to avoid conflicts.

3.10.31.2 CPC No. 31 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.31.3 CPC No. 31 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.31.4 CPC No. 31 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.31.5 CPC No. 31 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.31.6 CPC No. 31 Listing. The current listing of this CPC is provided in the UDF.

3.10.32 Identification of CPC No. 32. This CPC is composed of the Ada package designated by CM identification code SUP029S and SUP029B and named ITEM_SUP_TYPES.

3.10.32.1 CPC No. 32 Description. This package shall provide the types necessary to define an item definition record, component switches, and the editor mode for the generic item editor. It also contains support procedures that do not need to be instantiated for each implementation of the item editor

3.10.32.2 CPC No. 32 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.32.3 CPC No. 32 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.32.4 CPC No. 32 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.32.5 CPC No. 32 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.32.6 CPC No. 32 Listing. The current listing of this CPC is provided in the UDF.

3.10.33 Identification of CPC No. 33. This CPC is composed of the Ada package designated by CM identification code SUP030S and named GLOBALS.

3.10.33.1 CPC No. 33 Description. This package will primarily provide the constants for the various version numbers of all AOTS packages, enabling the version numbers to be modified for any and/or all packages without changes to the source image.

3.10.33.2 CPC No. 33 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.33.3 CPC No. 33 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.33.4 CPC No. 33 Data Organization. The data organization

of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.33.5 CPC No. 33 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.33.6 CPC No. 33 Listing. The current listing of this CPC is provided in the UDF.

3.10.34 Identification of CPC No. 34. This CPC is composed of the Ada package designated by CM identification code SUP031S and SUP031B and named PRINT_SUPPORT.

3.10.34.1 CPC No. 34 Description. This package shall provide the support of general interface to print files including page control and page titles.

3.10.34.2 CPC No. 34 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.34.3 CPC No. 34 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.34.4 CPC No. 34 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.34.5 CPC No. 34 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.34.6 CPC No. 34 Listing. The current listing of this CPC is provided in the UDF.

3.10.35 Identification of CPC No. 35. This CPC is composed of the Ada package designated by CM identification code SUP032S and SUP032B and named LOG_IO.

3.10.35.1 CPC No. 35 Description. This package will provide the caller with the ability to append up to five strings to a text file for the purpose of logging. The named file is locked while open. A blank line is appended at the end of the file to separate log records. NOTE : Due to a limit in VMIO, the maximum length of the strings output is 128. Anything after that will be truncated.

3.10.35.2 CPC No. 35 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.35.3 CPC No. 35 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.35.4 CPC No. 35 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.35.5 CPC No. 35 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.35.6 CPC No. 35 Listing. The current listing of this CPC is provided in the UDF.

3.10.36 Identification of CPC No. 36. This CPC is composed of the Ada body designated by CM identification code SUP033B and named DMSF.

3.10.36.1 CPC No. 36 Description. The DMSF Package provides all the necessary operations required by the ISS application software to interface with System files. System files are sequential files outside of the ISS Database.

3.10.36.2 CPC No. 36 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.36.3 CPC No. 36 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.36.4 CPC No. 36 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.36.5 CPC No. 36 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.36.6 CPC No. 36 Listing. The current listing of this CPC is provided in the UDF.

3.10.37 Identification of CPC No. 37. This CPC is composed of the Ada procedure designated by CM identification code SUP034P and named CALL_DCL.

3.10.37.1 CPC No. 37 Description. This procedure will execute a DCL command passed to it from an Ada package.

3.10.37.2 CPC No. 37 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.37.3 CPC No. 37 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.37.4 CPC No. 37 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.37.5 CPC No. 37 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.37.6 CPC No. 37 Listing. The current listing of this CPC is provided in the UDF.

3.10.38 Identification of CPC No. 38. This CPC is composed of the Ada package designated by CM identification code SUP035S and SUP035B and named SWAP_EMULATORS.

3.10.38.1 CPC No. 38 Description. This package provides the capability to swap between the regular terminal emulator and the IVD terminal emulator before going into an ISS procedure which may require one or the other.

3.10.38.2 CPC No. 38 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.38.3 CPC No. 38 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.38.4 CPC No. 38 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.38.5 CPC No. 38 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.38.6 CPC No. 38 Listing. The current listing of this CPC is provided in the UDF.

3.10.39 Identification of CPC No. 39. This CPC is composed of the Ada procedure designated by CM identification code SUP036P and named DOS_PATH_OPEN.

3.10.39.1 CPC No. 39 Description. This package shall provide the capability to open a DOS file handle by searching the PATH environment variable and using the first occurrence of the file found along this PATH.

3.10.39.2 CPC No. 39 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.39.3 CPC No. 39 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.39.4 CPC No. 39 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.39.5 CPC No. 39 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.39.6 CPC No. 39 Listing. The current listing of this CPC is provided in the UDF.

3.10.40 Identification of CPC No. 40. This CPC is composed of the assembly language source code designated by CM identification code SUP037A and named LOGICAL.

3.10.40.1 CPC No. 40 Description. LOGICAL shall provide a set of boolean operations.

3.10.40.2 CPC No. 40 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.40.3 CPC No. 40 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF.

3.10.40.4 CPC No. 40 Data Organization. The data organization of this CPC is detailed in the ASM source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.40.5 CPC No. 40 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the ASM source code provided in the UDF. No other limitations exist for this CPC except those defined in the ASM source code.

3.10.40.6 CPC No. 40 Listing. The current listing of this CPC is provided in the UDF.

3.10.41 Identification of CPC No. 41. This CPC is composed of the Ada procedure designated by CM identification code SUP038P and named CALIBRATE.

3.10.41.1 CPC No. 41 Description. This procedure will, with assistance from the user, create a data file "calib.dat" containing calibration data for the touch screen.

3.10.41.2 CPC No. 41 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.41.3 CPC No. 41 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.41.4 CPC No. 41 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.41.5 CPC No. 41 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.41.6 CPC No. 41 Listing. The current listing of this CPC is provided in the UDF.

3.10.42 Identification of CPC No. 42. This CPC is composed of the Ada package designated by CM identification code SUP039S and SUP039B and named TOUCH.

3.10.42.1 CPC No. 42 Description. This package provides touch screen support for the Elographics Touch Screen. The routines provide calibration of touch coordinates using the file calib.dat

which is created by the program CALIBRATE.

3.10.42.2 CPC No. 42 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.42.3 CPC No. 42 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.42.4 CPC No. 42 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.42.5 CPC No. 42 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.42.6 CPC No. 42 Listing. The current listing of this CPC is provided in the UDF.

3.10.43 Identification of CPC No. 43. This CPC is composed of the Ada procedure designated by CM identification code SUP040P and named SETOMODE.

3.10.43.1 CPC No. 43 Description. This procedure sets the operating mode of the videodisk player.

3.10.43.2 CPC No. 43 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.43.3 CPC No. 43 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.43.4 CPC No. 43 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the

UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.43.5 CPC No. 43 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.43.6 CPC No. 43 Listing. The current listing of this CPC is provided in the UDF.

3.10.44 Identification of CPC No. 44. This CPC is composed of the Ada package designated by CM identification code SUP041S and SUP041B and named SONY.

3.10.44.1 CPC No. 44 Description. This package contains the routines specific to the Sony LDP-2000 videodisc player.

3.10.44.2 CPC No. 44 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.44.3 CPC No. 44 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.44.4 CPC No. 44 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.44.5 CPC No. 44 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.44.6 CPC No. 44 Listing. The current listing of this CPC is provided in the UDF.

3.10.45 Identification of CPC No. 45. This CPC is composed of the Ada package designated by CM identification code SUP042S and SUP042B and named IVD.

3.10.45.1 CPC No. 45 Description. This package shall provide the interface to the video disk player. It is intended to contain commands common to all videodisc players that can be performed by executing the commands included in the TDL file for the device.

3.10.45.2 CPC No. 45 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).

3.10.45.3 CPC No. 45 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.

3.10.45.4 CPC No. 45 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

3.10.45.5 CPC No. 45 Limitations. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

3.10.45.6 CPC No. 45 Listing. The current listing of this CPC is provided in the UDF.

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4. QUALITY ASSURANCE
N/A
5. PREPARATION FOR DELIVERY
N/A

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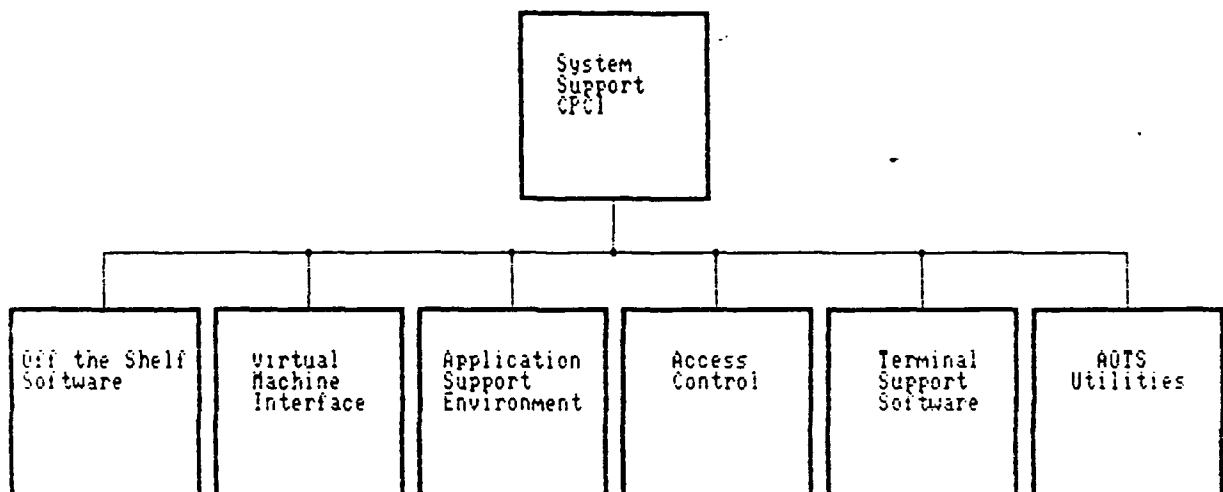


Figure 1
AOTS Visual Table of Contents
System Support CPCI

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Part I Paragraphs (DFD Processes)	CPC Number																						
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3
3.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1	*	*	*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.1	*					*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.2		*	*		*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.3	*						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.4	*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.2				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.1				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.2				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.3				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.4				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.5				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.6				*										*									
3.2.4								*	*	*													
3.2.4.1								*	*	*													
3.2.4.2								*	*														
3.2.4.3								*	*														
3.2.5								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.1								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.2								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.3								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 1 - Part I Paragraph to Part II CPC Cross Reference Matrix

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CPC Number

Part I Paragraphs (DFD Processes)	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
3.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.6																							
3.2.4																							
3.2.4.1																							
3.2.4.2																							
3.2.4.3																							
3.2.5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 1 - Part I Paragraph to Part II CPC Cross Reference Matrix
 (Cont'd)

Specification Number 70S647414

Code Ident 76301

Date: 23 June 1989

10. APPENDIX A - CPC TABLES. The following tables represent lists of specific source packages. The tables are ordered by CPC Number, CM identification, and Ada package name.

Specification Number 70S647414
Code Ident 76301
Date: 23 June 1989

INDEX BY CPC NUMBER

<u>CPC</u>	<u>CM</u>	<u>Id</u>	<u>Package Name</u>
8	SUP024S		RANDOM_PASSWORD
8	SUP024B		RANDOM_PASSWORD
9	SUP026S		USER_TYPE
9	SUP026B		USER_TYPE
10	SUP027P		AOTS_LOGON
11	SUP010P		TERMINAL
12	SUP011P		SCREEN_DUMP
13	SUP012S		COM_PORTS
13	SUP012B		COM_PORTS
14	SUP013S		KEYBOARD
14	SUP013B		KEYBOARD
15	SUP015S		KBD
15	SUP015B		KBD
16	SUP016S		ASMINT
16	SUP016B		ASMINT
17	SUP017S		GRBAS
17	SUP017B		GRBAS
18	SUP018A		COM_CODE
19	SUP019A		GRAF_CODE
20	SUP020P		PATH_OPEN
21	SUP021S		HP_SETUP
21	SUP021B		HP_SETUP
22	SUP022S		OKI_SETUP
22	SUP022B		OKI_SETUP
23	SUP023S		ALPS_SETUP
23	SUP023B		ALPS_SETUP
24	SUP001S		SCREEN_IO
24	SUP001B		SCREEN_IO
25	SUP004S		LISTPKG
25	SUP004B		LISTPKG
26	SUP005S		EDFIELD
26	SUP005B		EDFIELD
27	SUP006S		UTILITIES
27	SUP006B		UTILITIES
28	SUP007S		DATE_TIME
28	SUP007B		DATE_TIME
29	SUP009S		HELPTXT
29	SUP009B		HELPTXT

Specification Number 70S647414
Code Ident 76301
Date: 23 June 1989

INDEX BY CPC NUMBER (Cont.)

<u>CPC</u>	<u>CM</u>	<u>Id</u>	<u>Package Name</u>
30	SUP014S		EXPRESSION_HANDLER
30	SUP014B		EXPRESSION_HANDLER
31	SUP028S		ITEM_EDITOR
31	SUP028B		ITEM_EDITOR
32	SUP029S		ITEM_SUP_TYPES
32	SUP029B		ITEM_SUP_TYPES
33	SUP030S		GLOBALS
34	SUP031S		PRINT_SUPPORT
34	SUP031B		PRINT_SUPPORT
35	SUP032S		LOG_IO
35	SUP032B		LOG_IO
36	SUP033B		DMSF
37	SUP034P		CALL_DCL
38	SUP035S		SWAP_EMULATORS
38	SUP035B		SWAP_EMULATORS
39	SUP036P		DOS_PATH_OPEN
40	SUP037A		LOGICAL
41	SUP038P		CALIBRATE
42	SUP039S		TOUCH
42	SUP039B		TOUCH
43	SUP040P		SETOMODE
44	SUP041S		SONY
44	SUP041B		SONY
45	SUP042S		IVD
45	SUP042B		IVD

Specification Number 70S647414
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INDEX BY CM IDENTIFICATION

<u>CPC</u>	<u>CM Id</u>	<u>Package Name</u>
24	SUP001S	SCREEN_IO
24	SUP001B	SCREEN_IO
25	SUP004S	LISTPKG
25	SUP004B	LISTPKG
26	SUP005S	EDFIELD
26	SUP005B	EDFIELD
27	SUP006S	UTILITIES
27	SUP006B	UTILITIES
28	SUP007S	DATE_TIME
28	SUP007B	DATE_TIME
29	SUP009S	HELPTTEXT
29	SUP009B	HELPTTEXT
11	SUP010P	TERMINAL
12	SUP011P	SCREEN_DUMP
13	SUP012S	COM_PORTS
13	SUP012B	COM_PORTS
14	SUP013S	KEYBOARD
14	SUP013B	KEYBOARD
30	SUP014S	EXPRESSION_HANDLER
30	SUP014B	EXPRESSION_HANDLER
15	SUP015S	KBD
15	SUP015B	KBD
16	SUP016S	ASMINT
16	SUP016B	ASMINT
17	SUP017S	GRBAS
17	SUP017B	GRBAS
18	SUP018A	COM_CODE
19	SUP019A	GRAF_CODE
20	SUP020P	PATH_OPEN
21	SUP021S	HP_SETUP
21	SUP021B	HP_SETUP
22	SUP022S	OKI_SETUP
22	SUP022B	OKI_SETUP
23	SUP023S	ALPS_SETUP
23	SUP023B	ALPS_SETUP
8	SUP024S	RANDOM_PASSWORD
8	SUP024B	RANDOM_PASSWORD

Specification Number 70S647414
Code Ident 76301
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INDEX BY CM IDENTIFICATION (Cont.)

<u>CPC</u>	<u>CM Id</u>	<u>Package Name</u>
9	SUP026S	USER_TYPE
9	SUP026B	USER_TYPE
10	SUP027P	AOTS_LOGON
31	SUP028S	ITEM_EDITOR
31	SUP028B	ITEM_EDITOR
32	SUP029S	ITEM_SUP_TYPES
32	SUP029B	ITEM_SUP_TYPES
33	SUP030S	GLOBALS
34	SUP031S	PRINT_SUPPORT
34	SUP031B	PRINT_SUPPORT
35	SUP032S	LOG_IO
35	SUP032B	LOG_IO
36	SUP033B	DMSF
37	SUP034P	CALL_DCL
38	SUP035S	SWAP_EMULATORS
38	SUP035B	SWAP_EMULATORS
39	SUP036P	DOS_PATH_OPEN
40	SUP037A	LOGICAL
41	SUP038P	CALIBRATE
42	SUP039S	TOUCH
42	SUP039B	TOUCH
43	SUP040P	SETOMODE
44	SUP041S	SONY
44	SUP041B	SONY
45	SUP042S	IVD
45	SUP042B	IVD

Specification Number 70S647414
Code Ident 76301
Date: 23 June 1989

INDEX BY PACKAGE NAME

<u>CPC CM Id</u>	<u>Package Name</u>
23 SUP023S	ALPS_SETUP
23 SUP023B	ALPS_SETUP
10 SUP027P	AOTS_LOGON
16 SUP016S	ASMINT
16 SUP016B	ASMINT
41 SUP038P	CALIBRATE
37 SUP034P	CALL_DCL
18 SUP018A	COM_CODE
13 SUP012S	COM_PORTS
13 SUP012B	COM_PORTS
28 SUP007S	DATE_TIME
28 SUP007B	DATE_TIME
36 SUP033B	DMSF
39 SUP036P	DOS_PATH_OPEN
26 SUP005S	EDFIELD
26 SUP005B	EDFIELD
30 SUP014S	EXPRESSION_HANDLER
30 SUP014B	EXPRESSION_HANDLER
33 SUP030S	GLOBALS
19 SUP019A	GRAF_CODE
17 SUP017S	GRBAS
17 SUP017B	GRBAS
29 SUP009S	HELPTXT
29 SUP009B	HELPTXT
21 SUP021S	HP_SETUP
21 SUP021B	HP_SETUP
31 SUP028S	ITEM_EDITOR
31 SUP028B	ITEM_EDITOR
32 SUP029S	ITEM_SUP_TYPES
32 SUP029B	ITEM_SUP_TYPES
45 SUP042S	IVD
45 SUP042B	IVD
15 SUP015S	KBD
15 SUP015B	KBD
14 SUP013S	KEYBOARD
14 SUP013B	KEYBOARD
25 SUP004S	LISTPKG
25 SUP004B	LISTPKG

Specification Number 70S647414
Code Ident 76301
Date: 23 June 1989

INDEX BY PACKAGE NAME (Cont.)

<u>CPC CM Id</u>	<u>Package Name</u>
40 SUP037A	LOGICAL
35 SUP032S	LOG_IO
35 SUP032B	LOG_IO
22 SUP022S	OKI_SETUP
22 SUP022B	OKI_SETUP
20 SUP020P	PATH_OPEN
34 SUP031S	PRINT_SUPPORT
34 SUP031B	PRINT_SUPPORT
8 SUP024S	RANDOM_PASSWORD
8 SUP024B	RANDOM_PASSWORD
12 SUP011P	SCREEN_DUMP
24 SUP001S	SCREEN_IO
24 SUP001B	SCREEN_IO
43 SUP040P	SETOMODE
44 SUP041S	SONY
44 SUP041B	SONY
38 SUP035S	SWAP_EMULATORS
38 SUP035B	SWAP_EMULATORS
11 SUP010P	TERMINAL
42 SUP039S	TOUCH
42 SUP039B	TOUCH
9 SUP026S	USER_TYPE
9 SUP026B	USER_TYPE
27 SUP006S	UTILITIES
27 SUP006B	UTILITIES

Specification Number 70S647414
Code Ident 76301
Date: 23 June 1989

20. APPENDIX B - CPC REFERENCE LIST AND CHARTS. The following pages detail for each CPC the list of AOTS CPCs that reference the CPC and the interdependencies of the CPC with other CPCs. The CM Identifications are shown on the chart as 'x' to represent an Ada package (both specification and body portions). Due to space limitations the package name is limited to ten characters, the CPCs from a different CPCI are not expanded, CPCs that appear multiple times are only expanded once, and not all ISS references are shown.

CPC No. 8
CM Id SUP024S
Package RANDOM_PASSWORD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

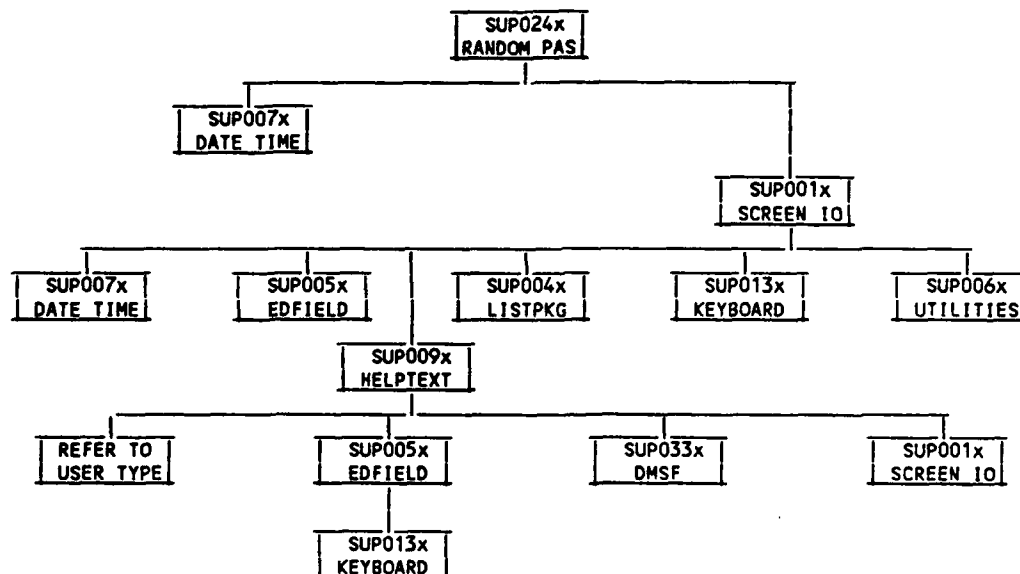
CPC No. 8 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
58	MGT032S	ATR
9	SUP026S	USER TYPE
9	SUP026B	USER TYPE
10	SUP027P	AOTS_LOGON

CPC No. 8
CM Id SUP024S
Package RANDOM_PASSWORD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 9
CM Id SUP026S
Package USER_TYPE

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 9 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVLO01S	BOE
1	EVLO01B	BOE
4	EVLO05B	TEST EDITOR
5	EVLO06S	TIB TYPE
6	EVLO07B	TEST ITEM BANK EDITOR
11	EVLO17S	TEST PRES
11	EVLO17B	TEST PRES
14	EVLO18S	OFFLINE TEST
14	EVLO18B	OFFLINE TEST
15	EVLO20S	FORM DEFINITION
18	EVLO23P	SCANTRON
2	MGT003B	MTL SUPPORT
3	MGT004B	TASK SELECT PRIOR
4	MGT015B	AFSC
7	MGT018B	SUBTASKS
10	MGT024S	OTHER TRS
10	MGT024B	OTHER TRS
13	MGT048S	QC EVAL
13	MGT048B	QC EVAL
14	MGT049B	MQC EVAL
18	MGT055S	MAP TASK
18	MGT055B	MAP TASK
20	MGT058S	MTL BUFFER
23	MGT061P	MTL FUNCTION SELECT
24	MGT086B	GPTR EDIT
25	MGT087S	OPTR EDIT
25	MGT087B	OPTR EDIT
28	MGT093B	MTL INFREQUENT
30	MGT095B	MTL TYPES
33	MGT098B	SUB PRINT
36	MGT101P	UPDATE TRAINING RECORDS
39	MGT112B	ITR RECORD UPDATE
40	MGT113S	REPORT TYPES
40	MGT113B	REPORT TYPES
50	MGT114P	REPORTS
51	MGT115P	PRINT REPORTS
54	MGT007B	ITEM
56	MGT030S	ITR
56	MGT030B	ITR
57	MGT031S	EVENTS
57	MGT031B	EVENTS
58	MGT032S	ATR
58	MGT032B	ATR
59	MGT033S	TRAINING HIST
59	MGT033B	TRAINING HIST
60	MGT039B	QUAL ASS
61	MGT040S	EVENT TYPES
61	MGT040B	EVENT TYPES
62	MGT042S	GENERAL TRNG
62	MGT042B	GENERAL TRNG
64	MGT045S	FORMAL TRNG
64	MGT045B	FORMAL TRNG
65	MGT046S	ECI CDC
65	MGT046B	ECI CDC

CPC No. 9
CM Id SUP026S
Package USER_TYPE

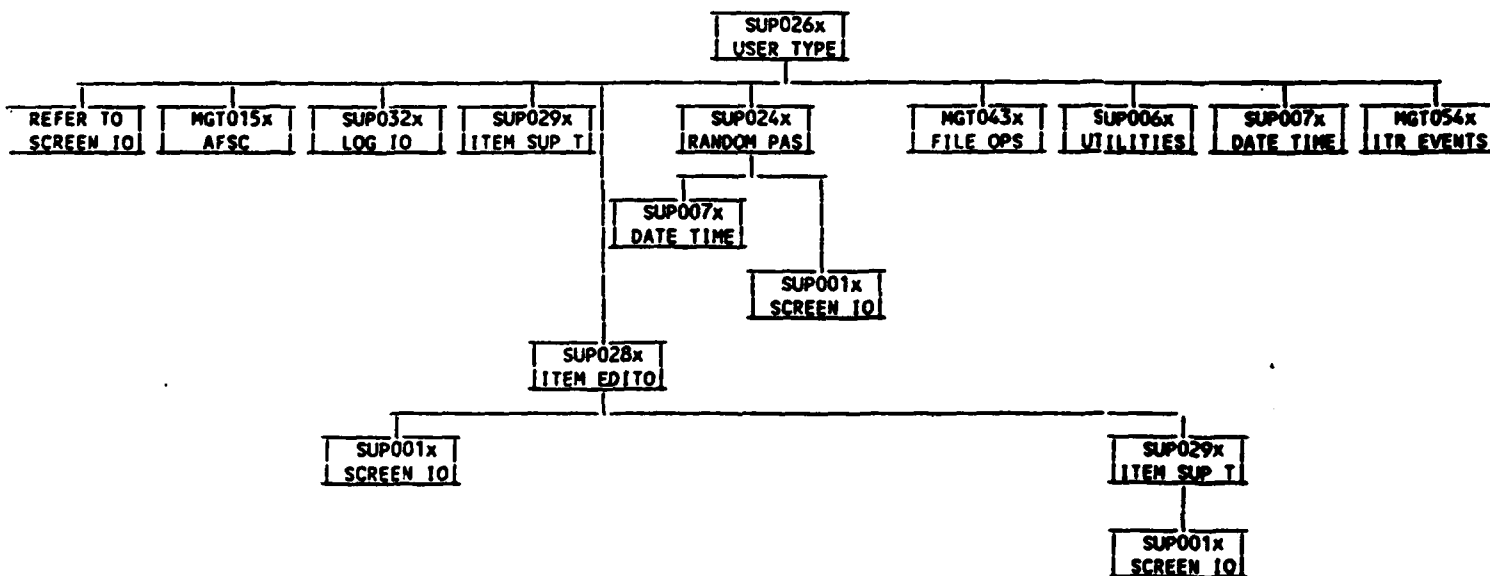
Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 9 Reference List (cont).

CPC	CM ID	PACKAGE NAME
66	MGT047S	ANCADDDCON
66	MGT047B	ANCADDDCON
67	MGT118P	PDS TO AOTS
68	MGT120P	CHECK CHANGES
69	MGT054S	ITR EVENTS
69	MGT054B	ITR EVENTS
70	MGT062S	ITR PRINT
70	MGT062B	ITR PRINT
71	MGT063P	ITR BG
72	MGT064S	MAP DISPLAY
72	MGT064B	MAP DISPLAY
73	MGT065S	ITR TYPES
73	MGT065B	ITR TYPES
93	MGT085P	DAILY RUN
94	MGT088S	ITR ECI
94	MGT088B	ITR ECI
95	MGT089S	TRAINING TYPES
97	MGT038S	SCHEDULER
97	MGT038B	SCHEDULER
99	MGT122B	QCADMIN
100	MGT044S	PME EDIT
100	MGT044B	PME EDIT
10	SUP027P	AOTS LOGON
29	SUP009B	HELPTEXT
34	SUP031S	PRINT SUPPORT
34	SUP031B	PRINT SUPPORT

CPC No. 9
CM Id SUP026S
Package USER_TYPE

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 10
CM Id SUP027P
Package AOTS_LOGON

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

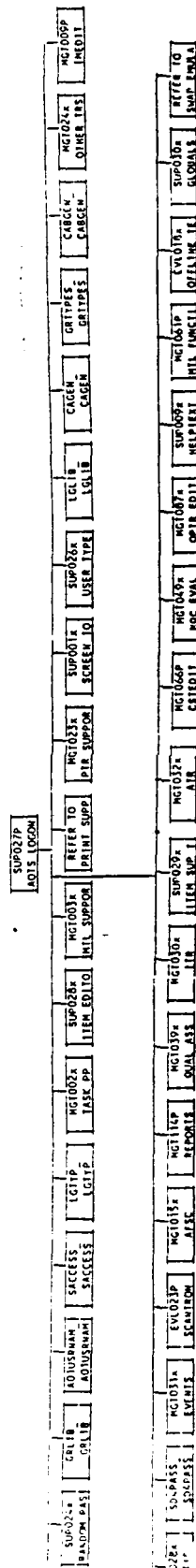
CPC No. 10 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
None		

CPC No. 10
 CM Id SUP027P
 Package AOTS_LOGON

Specification Number 70S647414
 Code Ident 76301
 Date: 23 Jun 1989



CPC No. 11
CM Id SUP010P
Package TERMINAL

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 11 Reference List.

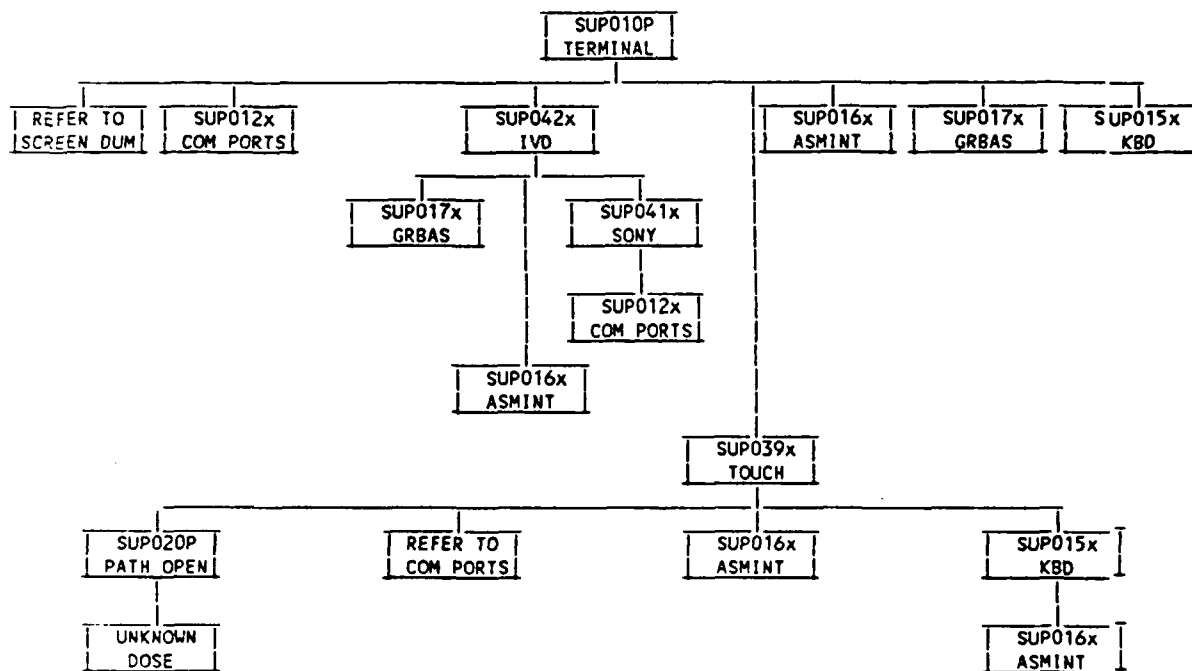
The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
-----	-------	--------------

None		
------	--	--

CPC No. 11
CM Id SUP010P
Package TERMINAL

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 12
CM Id SUP011P
Package SCREEN_DUMP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

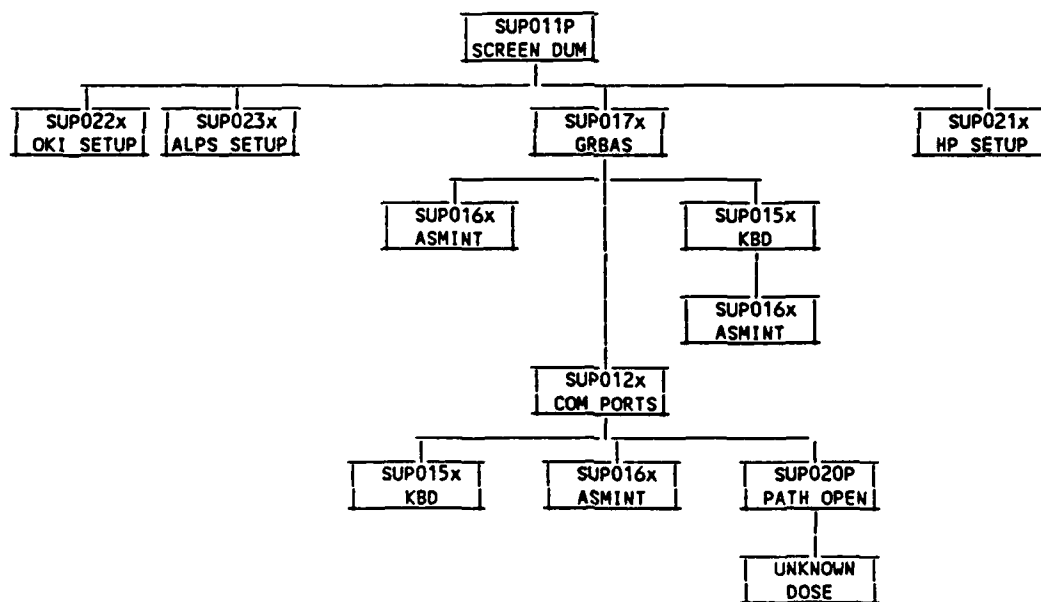
CPC No. 12 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL

CPC No. 12
CM Id SUP011P
Package SCREEN_DUMP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 13
CM Id SUP012S
Package COM_PORTS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

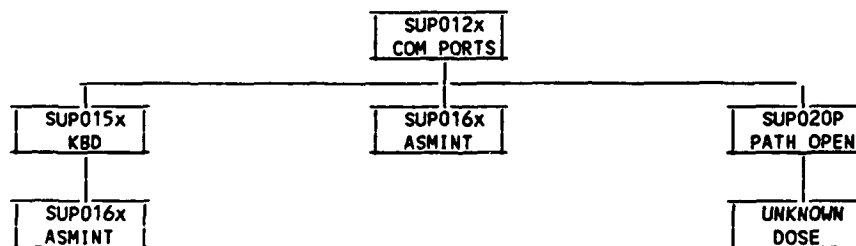
CPC No. 13 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL
17	SUP017B	GRBAS
41	SUP038P	CALIBRATE
42	SUP039B	TOUCH
44	SUP041B	SONY

CPC No. 13
CM Id SUP012S
Package COM_PORTS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 14
CM Id SUP013S
Package KEYBOARD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 14 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVL001B	BOE
10	EVL016B	CR QUES
27	MGT092B	MTL COMMON
50	MGT114P	REPORTS
24	SUP001B	SCREEN IO
26	SUP005B	EDFIELD

CPC No. 14
CM Id SUP013S
Package KEYBOARD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP013x KEYBOARD

CPC No. 15
CM Id SUP015S
Package KBD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

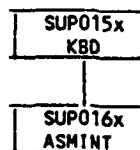
CPC No. 15 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL
13	SUP012B	COM PORTS
17	SUP017B	GRBAS
42	SUP039B	TOUCH

CPC No. 15
CM Id SUP015S
Package KBD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 16
CM Id SUP016S
Package ASMINT

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 16 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL
13	SUP012B	COM PORTS
15	SUP015B	KBD-
17	SUP017B	GRBAS
41	SUP038P	CALIBRATE
42	SUP039B	TOUCH
43	SUP040P	SETOMODE
45	SUP042B	IVD

CPC No. 16
CM Id SUP016S
Package ASMINT

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP016x ASMINT

CPC No. 17
CM Id SUP017S
Package GRBAS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

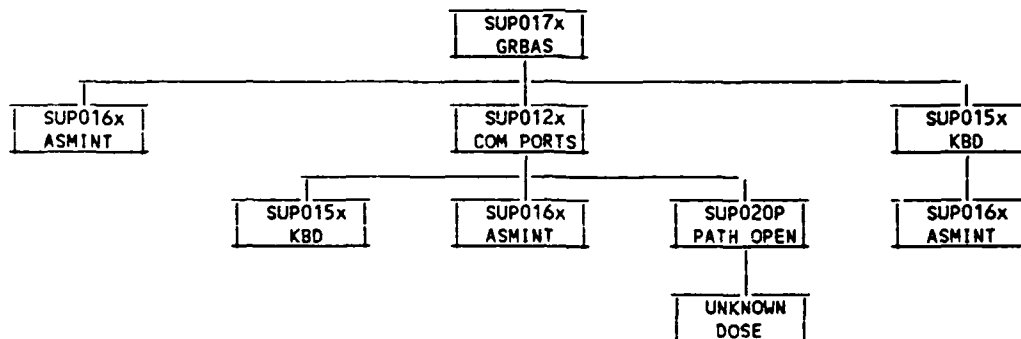
CPC No. 17 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL
12	SUP011P	SCREEN DUMP
41	SUP038P	CALIBRATE
43	SUP040P	SETOMODE
45	SUP042B	IVD

CPC No. 17
CM Id SUP017S
Package GRBAS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 20
CM Id SUP020P
Package PATH_OPEN

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

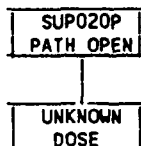
CPC No. 20 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
13	SUP012B	COM PORTS
42	SUP039B	TOUCH

CPC No. 20
CM Id SUP020P
Package PATH_OPEN

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 21
CM Id SUP021S
Package HP_SETUP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 21 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
12	SUP011P	SCREEN_DUMP

CPC No. 21
CM Id SUP021S
Package HP_SETUP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP021x
HP SETUP

CPC No. 22
CM Id SUP022S
Package OKI_SETUP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 22 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
12	SUP011P	SCREEN_DUMP

CPC No. 22
CM Id SUP022S
Package OKI_SETUP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP022x
OKI SETUP

CPC No. 23
CM Id SUP023S
Package ALPS_SETUP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 23 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
12	SUP011P	SCREEN_DUMP

CPC No. 23
CM Id SUP023S
Package ALPS_SETUP

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP023x
ALPS SETUP

CPC No. 24
CM Id SUP001S
Package SCREEN_IO

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 24 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
	CA1CRA	CA1CRA
1	EVL001B	BOE
2	EVL002B	VERB CHECK
4	EVL005B	TEST EDITOR
5	EVL006B	TIB TYPE
6	EVL007S	TEST ITEM BANK EDITOR
6	EVL007B	TEST ITEM BANK EDITOR
7	EVL008B	QUESTION
8	EVL009B	PM OTG
9	EVL012B	GRAFIX
10	EVL016B	CR OUES
11	EVL017B	TEST PRES
12	EVL019S	ALTS
12	EVL019B	ALTS
14	EVL018B	OFFLINE TEST
16	EVL021B	FORM UTILITIES
17	EVL022B	FORM PROCESSING
18	EVL023P	SCANTRON
21	EVL027B	TIETIE
22	EVL028B	DOTIE
1	MGT002B	TASK PP
2	MGT003B	MTL SUPPORT
3	MGT004B	TASK SELECT_PRIOR
4	MGT015B	AFSC
5	MGT016B	MTL UNIT CODES
6	MGT017B	ACTIVITY
7	MGT018B	SUBTASKS
9	MGT023B	PTR SUPPORT
10	MGT024B	OTHER TRS
13	MGT048B	QC EVAL
14	MGT049B	MQC EVAL
15	MGT050B	OTR EDIT
16	MGT051B	OTR PRINT
18	MGT055B	MAP TASK
23	MGT061P	MTL FUNCTION_SELECT
24	MGT086B	GPTR EDIT
25	MGT087B	OPTR EDIT
26	MGT091S	MTL BASIC
27	MGT092B	MTL COMMON
28	MGT093B	MTL INFREQUENT
29	MGT094B	MTL PRINT
30	MGT095S	MTL TYPES
30	MGT095B	MTL TYPES
31	MGT096B	SUB_FUNC
32	MGT097B	SUB_ITEMS
33	MGT098B	SUB_PRINT
35	MGT100S	SUB_UTIL
35	MGT100B	SUB_UTIL
37	MGT102B	DEBUG PKG
39	MGT112B	ITR RECORD UPDATE
40	MGT113B	REPORT TYPES
50	MGT114P	REPORTS
53	MGT005B	CROSS
54	MGT007B	ITEM

CPC No. 24
CM Id SUP001S
Package SCREEN_IO

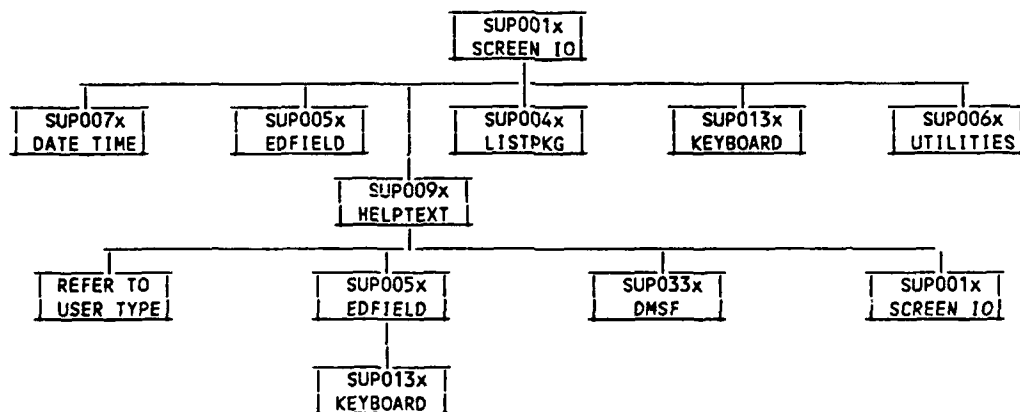
Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 24 Reference List (cont).

CPC	CM ID	PACKAGE NAME
55	MGT009P	IMEDIT
56	MGT030B	ITR
57	MGT031B	EVENTS
58	MGT032S	ATR
58	MGT032B	ATR
59	MGT033B	TRAINING HIST
60	MGT039B	QUAL ASS-
61	MGT040B	EVENT TYPES
62	MGT042S	GENERAL TRNG
62	MGT042B	GENERAL TRNG
63	MGT043B	FILE OPS
64	MGT045B	FORMAL TRNG
65	MGT046B	ECI CDC
66	MGT047B	ANCADDCON
67	MGT118P	PDS TO AOTS
68	MGT120P	CHECK CHANGES
69	MGT054B	ITR EVENTS
70	MGT062B	ITR PRINT
72	MGT064B	MAP DISPLAY
73	MGT065S	ITR TYPES
73	MGT065B	ITR TYPES
94	MGT088B	ITR ECI
97	MGT038B	SCHEDULER
100	MGT044B	PME EDIT
8	SUP024B	RANDOM PASSWORD
9	SUP026S	USER TYPE
9	SUP026B	USER TYPE
10	SUP027P	AOTS LOGON
28	SUP007B	DATE TIME
29	SUP009B	HELPTXT
30	SUP014B	EXPRESSION HANDLER
31	SUP028S	ITEM EDITOR
31	SUP028B	ITEM EDITOR
32	SUP029S	ITEM SUP TYPES
32	SUP029B	ITEM SUP TYPES
34	SUP031B	PRINT SUPPORT
38	SUP035B	SWAP_EMULATORS

CPC No. 24
CM Id SUP001S
Package SCREEN_IO

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 25
CM Id SUP004S
Package LISTPKG

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 25 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
24	SUP001B	SCREEN_IO

CPC No. 25
CM Id SUP004S
Package LISTPKG

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP004x
LISTPKG

CPC No. 26
CM Id SUP005S
Package EDFIELD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

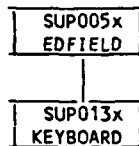
CPC No. 26 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
7	EVL008B	QUESTION
12	EVL019B	ALTS
6	MGT017B	ACTIVITY
22	MGT060B	FINAL MTL FUNCTIONS
33	MGT098B	SUB PRINT
59	MGT033B	TRAINING HIST
64	MGT045B	FORMAL TRNG
66	MGT047B	ANCADDCON
70	MGT062B	ITR PRINT
71	MGT063P	ITR BG
100	MGT044B	PME EDIT
24	SUP001B	SCREEN IO
29	SUP009B	HELPTXT
34	SUP031B	PRINT_SUPPORT

CPC No. 26
CM Id SUP005S
Package EDFIELD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 27
CM Id SUP006S
Package UTILITIES

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 27 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVL001B	BOE
2	EVL002B	VERB CHECK
14	EVL018B	OFFLINE TEST
1	MGT002B	TASK PP
3	MGT004B	TASK SELECT PRIOR
5	MGT016B	MTL UNIT CODES
25	MGT087B	OPTR EDIT
27	MGT092B	MTL COMMON
54	MGT007B	ITEM
56	MGT030B	ITR
58	MGT032B	ATR
60	MGT039B	QUAL ASS
9	SUP026B	USER TYPE
24	SUP001B	SCREEN IO
30	SUP014B	EXPRESSION_HANDLER

CPC No. 27
CM Id SUP006S
Package UTILITIES

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP006x UTILITIES

CPC No. 28
CM Id SUP007S
Package DATE_TIME

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 28 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVL001B	BOE
4	EVL005B	TEST EDITOR
7	EVL008B	QUESTION
8	EVL009B	PM OTG
11	EVL017S	TEST PRES
11	EVL017B	TEST PRES
14	EVL018S	OFFLINE TEST
14	EVL018B	OFFLINE TEST
17	EVL022B	FORM PROCESSING
18	EVL023P	SCANTRON
1	MGT002B	TASK PP
2	MGT003B	MTL SUPPORT
3	MGT004S	TASK SELECT PRIOR
3	MGT004B	TASK SELECT PRIOR
5	MGT016B	MTL UNIT CODES
10	MGT024B	OTHER TRS
13	MGT048S	QC EVAL
13	MGT048B	QC EVAL
14	MGT049B	MQC EVAL
18	MGT055B	MAP TASK
27	MGT092B	MTL COMMON
28	MGT093B	MTL INFREQUENT
29	MGT094B	MTL PRINT
30	MGT095S	MTL TYPES
33	MGT098B	SUB PRINT
36	MGT101P	UPDATE TRAINING RECORDS
39	MGT112B	ITR RECORD UPDATE
40	MGT113S	REPORT TYPES
40	MGT113B	REPORT TYPES
50	MGT114P	REPORTS
51	MGT115P	PRINT REPORTS
54	MGT007B	ITEM
55	MGT009P	IMEDIT
56	MGT030S	ITR
56	MGT030B	ITR
57	MGT031B	EVENTS
58	MGT032S	ATR
58	MGT032B	ATR
59	MGT033S	TRAINING HIST
59	MGT033B	TRAINING HIST
60	MGT039B	QUAL ASS
61	MGT040S	EVENT TYPES
61	MGT040B	EVENT TYPES
62	MGT042S	GENERAL TRNG
62	MGT042B	GENERAL TRNG
64	MGT045S	FORMAL TRNG
64	MGT045B	FORMAL TRNG
65	MGT046S	ECI CDC
65	MGT046B	ECI CDC
66	MGT047S	ANCADDCON
66	MGT047B	ANCADDCON
67	MGT118P	PDS TO AOTS
68	MGT120P	CHECK CHANGES
69	MGT054S	ITR_EVENTS

CPC No. 28
CM Id SUP007S
Package DATE_TIME

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 28 Reference List (cont).

CPC	CM ID	PACKAGE NAME
69	MGT054B	ITR_EVENTS
70	MGT062B	ITR_PRINT
71	MGT063P	ITR_BG
72	MGT064B	MAP_DISPLAY
73	MGT065S	ITR_TYPES
73	MGT065B	ITR_TYPES
75	MGT067P	EXTRACT
93	MGT085P	DAILY_RUN
94	MGT088B	ITR_ECI
95	MGT089S	TRAINING_TYPES
97	MGT038B	SCHEDULER
100	MGT044B	PME_EDIT
8	SUP024B	RANDOM_PASSWORD
9	SUP026B	USER_TYPE
24	SUP001B	SCREEN_IO
30	SUP014S	EXPRESSION_HANDLER
30	SUP014B	EXPRESSION_HANDLER
34	SUP031B	PRINT_SUPPORT

CPC No. 28
CM Id SUP007S
Package DATE_TIME

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP007x
DATE TIME

CPC No. 29
CM Id SUP009S
Package HELPTXT

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

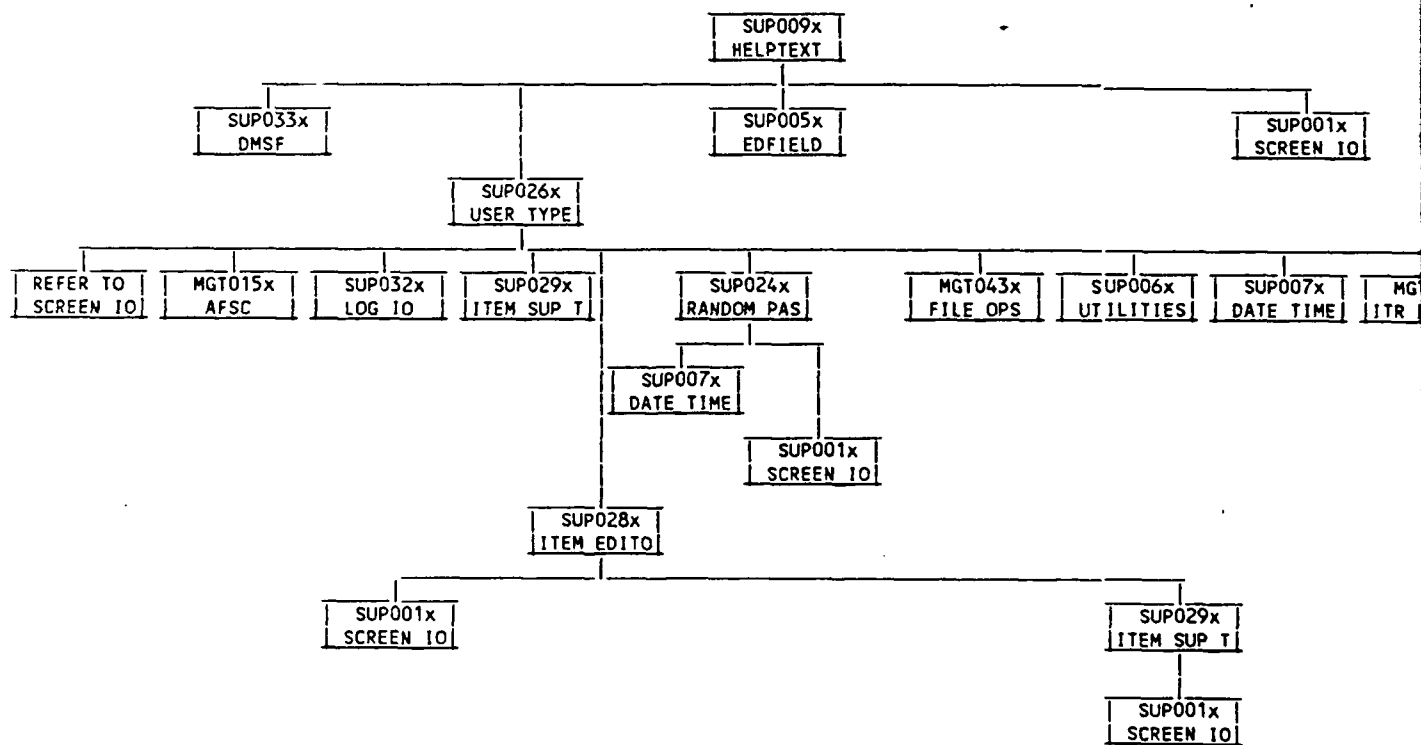
CPC No. 29 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
27	MGT092B	MTL COMMON
10	SUP027P	AOTS LOGON
24	SUP001B	SCREEN_IO

CPC No. 29
CM Id SUP009S
Package HELPTXT

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 30
CM Id SUP014S
Package EXPRESSION_HANDLER

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

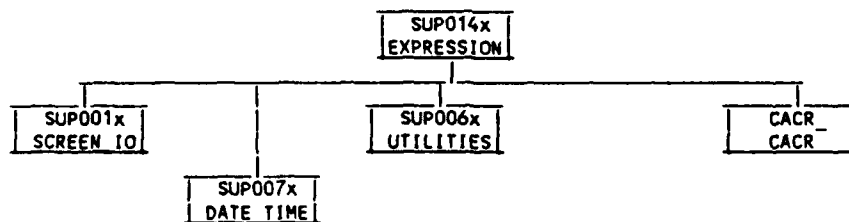
CPC No. 30 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
3	MGT004S	TASK SELECT PRIOR
3	MGT004B	TASK SELECT PRIOR
10	MGT024B	OTHER TRS
27	MGT092B	MTL COMMON
58	MGT032B	ATR

CPC No. 30
CM Id SUP014S
Package EXPRESSION_HANDLER

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 31
CM Id SUP028S
Package ITEM_EDITOR

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

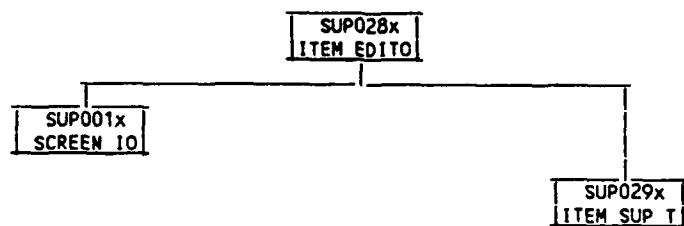
CPC No. 31 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
8	EVL009B	PM OTG
18	EVL023P	SCANTRON
3	MGT004B	TASK SELECT_PRIOR
6	MGT017B	ACTIVITY
7	MGT018B	SUBTASKS
9	MGT023B	PTR SUPPORT
15	MGT050B	OTR_EDIT
25	MGT087B	OPTR_EDIT
56	MGT030B	ITR
57	MGT031B	EVENTS
59	MGT033B	TRAINING HIST
60	MGT039B	QUAL ASS
64	MGT045B	FORMAL TRNG
65	MGT046B	ECI CDC
66	MGT047B	ANCADDCON
69	MGT054B	ITR EVENTS
94	MGT088B	ITR ECI
100	MGT044B	PME_EDIT
9	SUP026B	USER TYPE
10	SUP027P	AOTS_LOGON

CPC No. 31
CM Id SUP028S
Package ITEM_EDITOR

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 32
CM ID SUP029S
Package ITEM_SUP_TYPES

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 32 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
8	EVL009B	PM OTG
18	EVL023P	SCANTRON
3	MGT004B	TASK SELECT_PRIOR
6	MGT017B	ACTIVITY
7	MGT018B	SUBTASKS
9	MGT023B	PTR SUPPORT
15	MGT050B	OTR EDIT
25	MGT087B	OPTR EDIT
56	MGT030B	ITR
57	MGT031B	EVENTS
59	MGT033B	TRAINING HIST
60	MGT039B	QUAL ASS
64	MGT045B	FORMAL TRNG
65	MGT046B	ECI CDC
66	MGT047B	ANCADDCON
69	MGT054B	ITR EVENTS
94	MGT088B	ITR ECI
100	MGT044B	PME EDIT
9	SUP026B	USER TYPE
10	SUP027P	AOTS LOGON
31	SUP028S	ITEM EDITOR
31	SUP028B	ITEM EDITOR

CPC No. 32
CM Id SUP029S
Package ITEM_SUP_TYPES

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP029x
ITEM SUP T

CPC No. 33
CM Id SUP030S
Package GLOBALS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 33 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVL001B	BOE
2	EVL002B	VERB CHECK
4	EVL005B	TEST EDITOR
5	EVL006B	TIB TYPE
6	EVL007B	TEST ITEM BANK EDITOR
7	EVL008B	QUESTION
8	EVL009B	PM OTG
9	EVL012B	GRAFIX
12	EVL019B	ALTS
14	EVL018B	OFFLINE TEST
18	EVL023P	SCANTRON
22	EVL028B	DOTIE
1	MGT002B	TASK PP
2	MGT003B	MTL SUPPORT
3	MGT004B	TASK SELECT PRIOR
4	MGT015B	AFSC
5	MGT016B	MTL UNIT CODES
6	MGT017B	ACTIVITY
7	MGT018B	SUBTASKS
9	MGT023B	PTR SUPPORT
15	MGT050B	OTR EDIT
18	MGT055B	MAP TASK
24	MGT086B	GPTR EDIT
25	MGT087B	OPTR EDIT
27	MGT092B	MTL COMMON
28	MGT093B	MTL INFREQUENT
29	MGT094B	MTL PRINT
30	MGT095B	MTL TYPES
31	MGT096B	SUB FUNC
35	MGT100B	SUB UTIL
50	MGT114P	REPORTS
54	MGT007B	ITEM
56	MGT030B	ITR
57	MGT031B	EVENTS
59	MGT033B	TRAINING HIST
61	MGT040B	EVENT TYPES
62	MGT042B	GENERAL TRNG
64	MGT045B	FORMAL TRNG
69	MGT054B	ITR EVENTS
72	MGT064B	MAP DISPLAY
94	MGT088B	ITR ECI
100	MGT044B	PME EDIT
10	SUP027P	AOTS LOGON

CPC No. 33
CM Id SUP030S
Package GLOBALS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP030x
GLOBALS

CPC No. 34
CM Id SUP031S
Package PRINT_SUPPORT

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 34 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVL001S	BOE
1	EVL001B	BOE
4	EVL005B	TEST EDITOR
5	EVL006S	TIB TYPE
5	EVL006B	TIB TYPE
6	EVL007B	TEST ITEM_BANK_EDITOR
7	EVL008S	QUESTION
7	EVL008B	QUESTION
8	EVL009S	PM OTG
8	EVL009B	PM OTG
12	EVL019S	ALTS
12	EVL019B	ALTS
13	EVL024P	TEST PRINT
14	EVL018B	OFFLINE TEST
17	EVL022B	FORM_PROCESSING
20	EVL026P	TIE
1	MGT002S	TASK PP
1	MGT002B	TASK PP
2	MGT003B	MTL SUPPORT
3	MGT004B	TASK SELECT PRIOR
5	MGT016S	MTL UNIT CODES
5	MGT016B	MTL UNIT CODES
6	MGT017S	ACTIVITY
6	MGT017B	ACTIVITY
9	MGT023S	PTR SUPPORT
9	MGT023B	PTR SUPPORT
10	MGT024S	OTHER TRS
10	MGT024B	OTHER TRS
13	MGT048B	QC EVAL
16	MGT051S	OTR PRINT
16	MGT051B	OTR PRINT
19	MGT057P	FINAL MTL GEN
22	MGT060S	FINAL MTL FUNCTIONS
22	MGT060B	FINAL MTL FUNCTIONS
23	MGT061P	MTL FUNCTION_SELECT
24	MGT086B	GPTR EDIT
25	MGT087B	OPTR EDIT
28	MGT093B	MTL INFREQUENT
29	MGT094B	MTL PRINT
33	MGT098S	SUB PRINT
33	MGT098B	SUB PRINT
36	MGT101P	UPDATE TRAINING RECORDS
39	MGT112B	ITR RECORD UPDATE
40	MGT113B	REPORT TYPES
50	MGT114P	REPORTS
52	MGT116S	VALIDATE PKG
52	MGT116B	VALIDATE PKG
54	MGT007B	ITEM
58	MGT032S	ATR
58	MGT032B	ATR
59	MGT033S	TRAINING HIST
59	MGT033B	TRAINING HIST
62	MGT042S	GENERAL TRNG
62	MGT042B	GENERAL TRNG

CPC No. 34
CM Id SUP031S
Package PRINT_SUPPORT

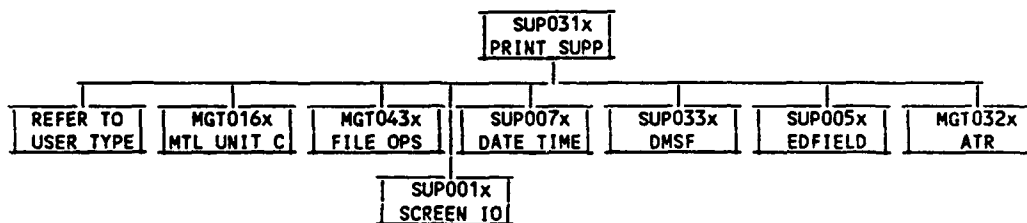
Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 34 Reference List (cont).

CPC	CM ID	PACKAGE NAME
64	MGT045S	FORMAL TRNG
64	MGT045B	FORMAL TRNG
65	MGT046S	ECI CDC
65	MGT046B	ECI CDC
66	MGT047S	ANCADDCON
66	MGT047B	ANCADDCON
67	MGT118P	PDS TO AOTS
68	MGT120P	CHECK CHANGES
70	MGT062S	ITR PRINT
70	MGT062B	ITR PRINT
71	MGT063P	ITR BG
75	MGT067P	EXTRACT
100	MGT044S	PME EDIT
100	MGT044B	PME EDIT
10	SUP027P	AOTS_LOGON

CPC No. 34
CM Id SUP031S
Package PRINT_SUPPORT

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 35
CM Id SUP032S
Package LOG_IO

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 35 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
13	MGT048B	QC EVAL
57	MGT031B	EVENTS
58	MGT032B	ATR
69	MGT054B	ITR EVENTS
97	MGT038B	SCHEDULER
9	SUP026B	USER_TYPE

CPC No. 35
CM Id SUP032S
Package LOG_IO

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP032x LOG IO

CPC No. 36
CM Id SUP033B
Package DMSF

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 36 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVL001S	BOE
11	EVL017B	TEST PRES
14	EVL018B	OFFLINE TEST
19	EVL025S	TIETYPES
20	EVL026P	TIE
1	MGT002S	TASK PP
1	MGT002B	TASK_PP
4	MGT015S	AFSC
4	MGT015B	AFSC
7	MGT018S	SUBTASKS
10	MGT024B	OTHER TRS
19	MGT057P	FINAL_MTL_GEN
22	MGT060S	FINAL_MTL_FUNCTIONS
22	MGT060B	FINAL_MTL_FUNCTIONS
25	MGT087B	OPTR EDIT
27	MGT092B	MTL COMMON
28	MGT093B	MTL-INFREQUENT
40	MGT113B	REPORT TYPES
50	MGT114P	REPORTS
54	MGT007S	ITEM
54	MGT007B	ITEM
58	MGT032B	ATR
59	MGT033S	TRAINING HIST
59	MGT033B	TRAINING_HIST
62	MGT042B	GENERAL TRNG
64	MGT045S	FORMAL TRNG
64	MGT045B	FORMAL_TRNG
65	MGT046S	ECI CDC
65	MGT046B	ECI_CDC
66	MGT047S	ANCADDCON
66	MGT047B	ANCADDCON
68	MGT120P	CHECK CHANGES
73	MGT065B	ITR TYPES
75	MGT067P	EXTRACT
100	MGT044B	PME EDIT
29	SUP009B	HELPTXT
34	SUP031S	PRINT SUPPORT
34	SUP031B	PRINT-SUPPORT
38	SUP035B	SWAP_EMULATORS

CPC No. 36
CM Id SUP033B
Package DMSF

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP033x DMSF

CPC No. 37
CM Id SUP034P
Package CALL_DCL

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 37 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
93	MGT085P	DAILY_RUN

CPC No. 37
CM Id SUP034P
Package CALL_DCL

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

SUP034P
CALL DCL

CPC No. 38
CM Id SUP035S
Package SWAP_EMULATORS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

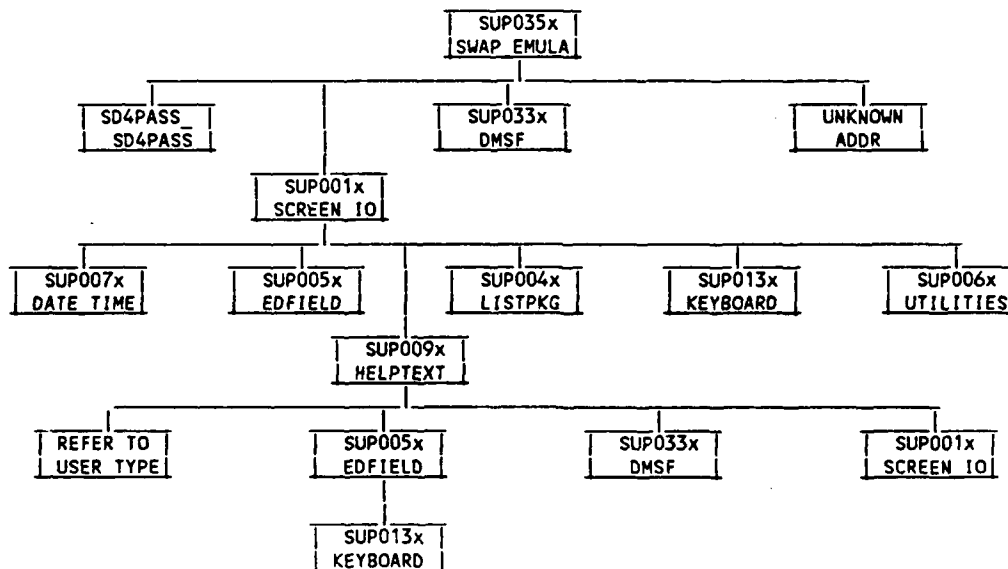
CPC No. 38 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
1	EVL001B	BOE
56	MGT030B	ITR
72	MGT064B	MAP_DISPLAY
10	SUP027P	AOTS_LOGON

CPC No. 38
CM Id SUP035S
Package SWAP_EMULATORS

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 39
CM Id SUP036P
Package DOS_PATH_OPEN

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

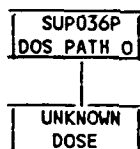
CPC No. 39 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
None		

CPC No. 39
CM Id SUP036P
Package DOS_PATH_OPEN

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 41
CM Id SUP038P
Package CALIBRATE

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

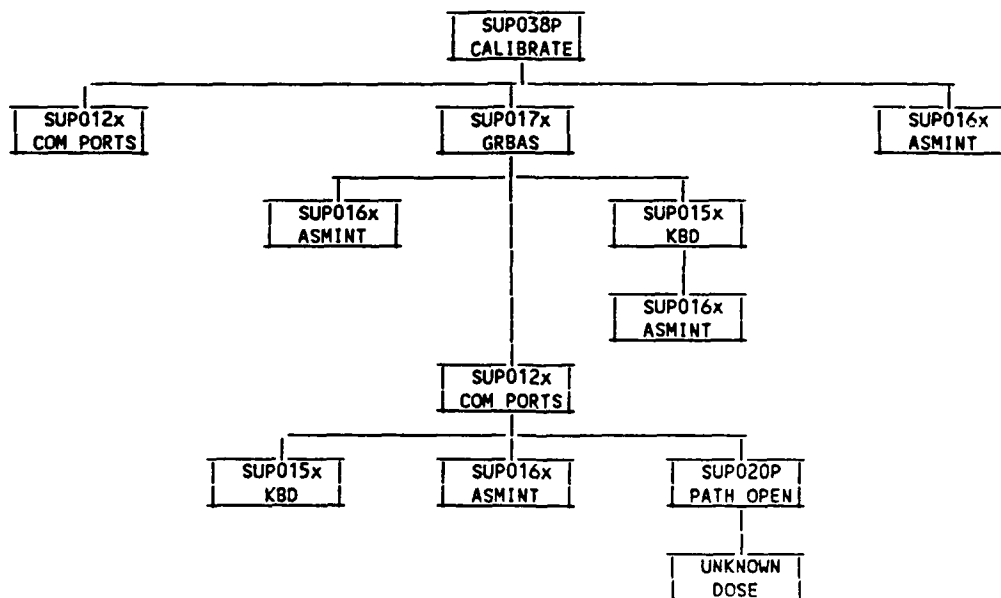
CPC No. 41 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
None		

CPC No. 41
CM Id SUP038P
Package CALIBRATE

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 42
CM Id SUP039S
Package TOUCH

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

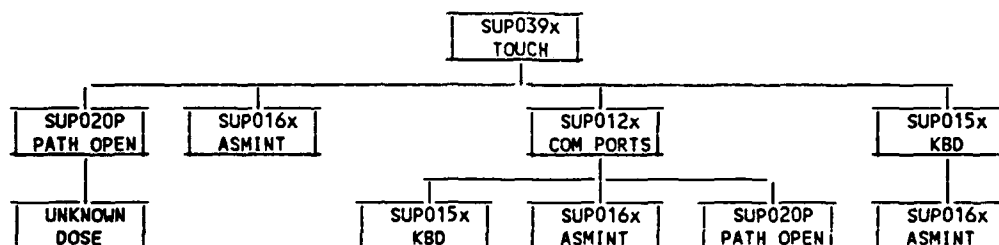
CPC No. 42 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL

CPC No. 42
CM Id SUP039S
Package TOUCH

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 43
CM Id SUP040P
Package SETOMODE

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

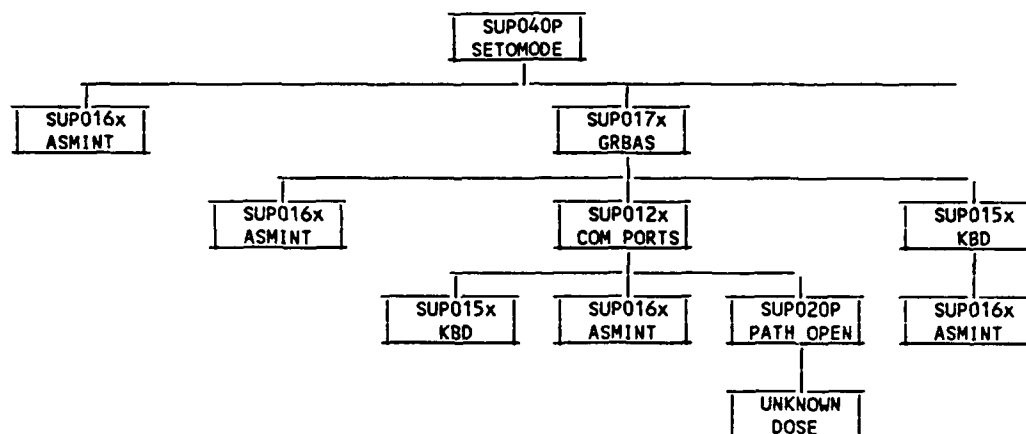
CPC No. 43 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
None		

CPC No. 43
CM Id SUP040P
Package SETOMODE

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 44
CM Id SUP041S
Package SONY

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

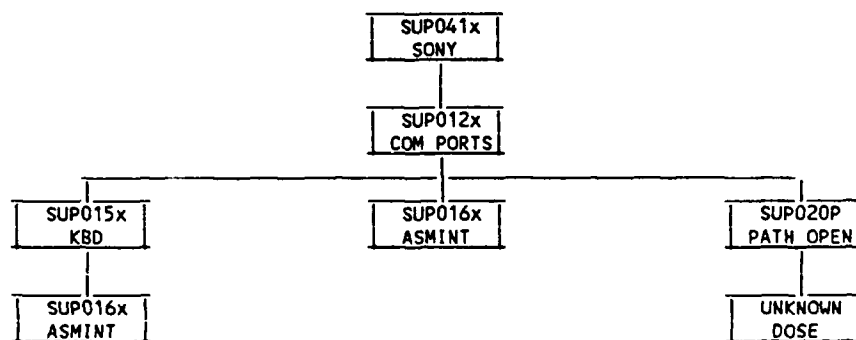
CPC No. 44 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
45	SUP042B	IVD

CPC No. 44
CM Id SUP041S
Package SONY

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989



CPC No. 45
CM Id SUP042S
Package IVD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

CPC No. 45 Reference List.

The following list represents all AOTS CPCs that reference this
CPC:

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL

CPC No. 45
CM Id SUP042S
Package IVD

Specification Number 70S647414
Code Ident 76301
Date: 23 Jun 1989

