

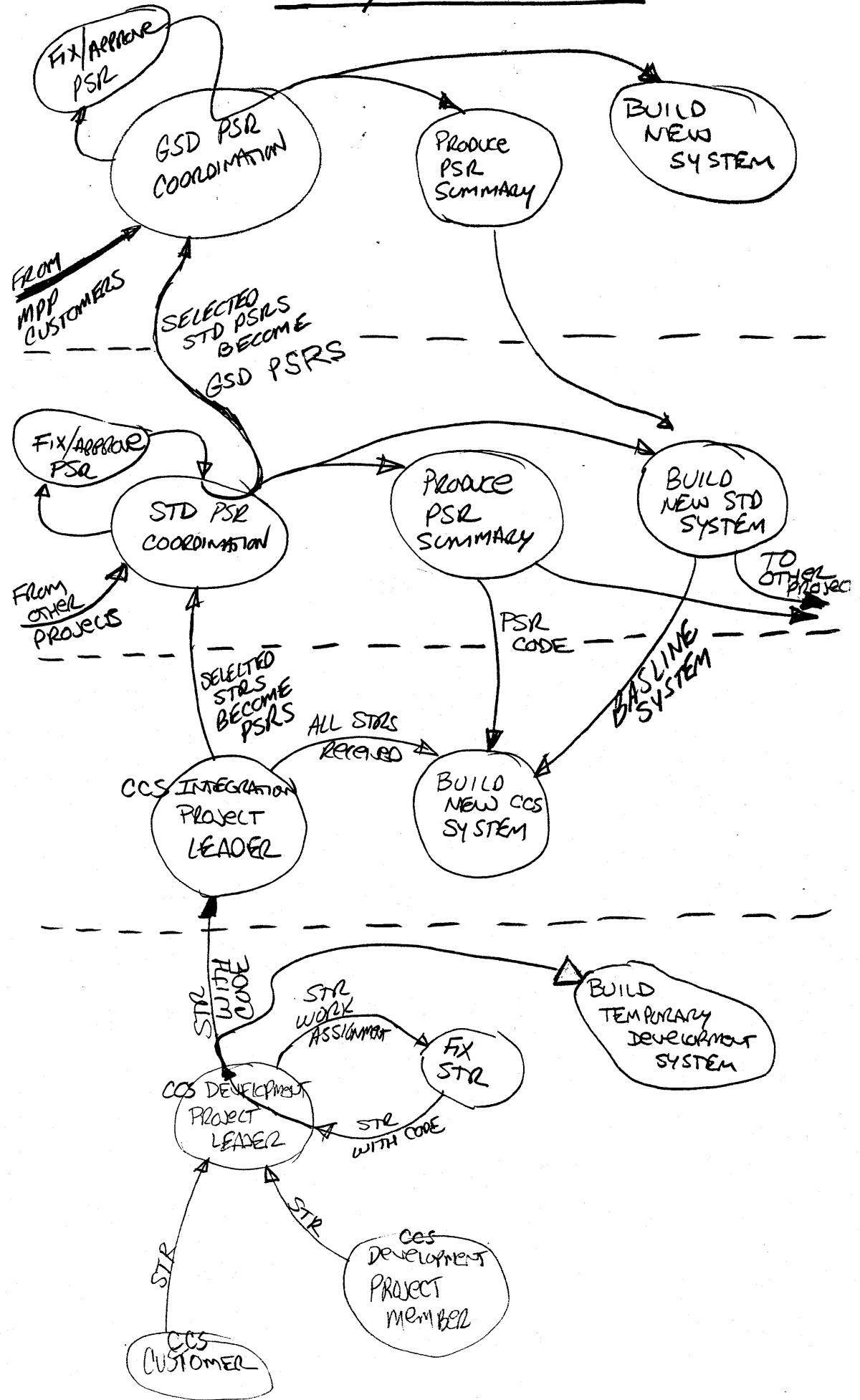
MP-32 MPX/OS V3

CONSTRUCTION NOTEBOOK



STR/PSR FLOW

9-13-82



OWNERNAME FLOW

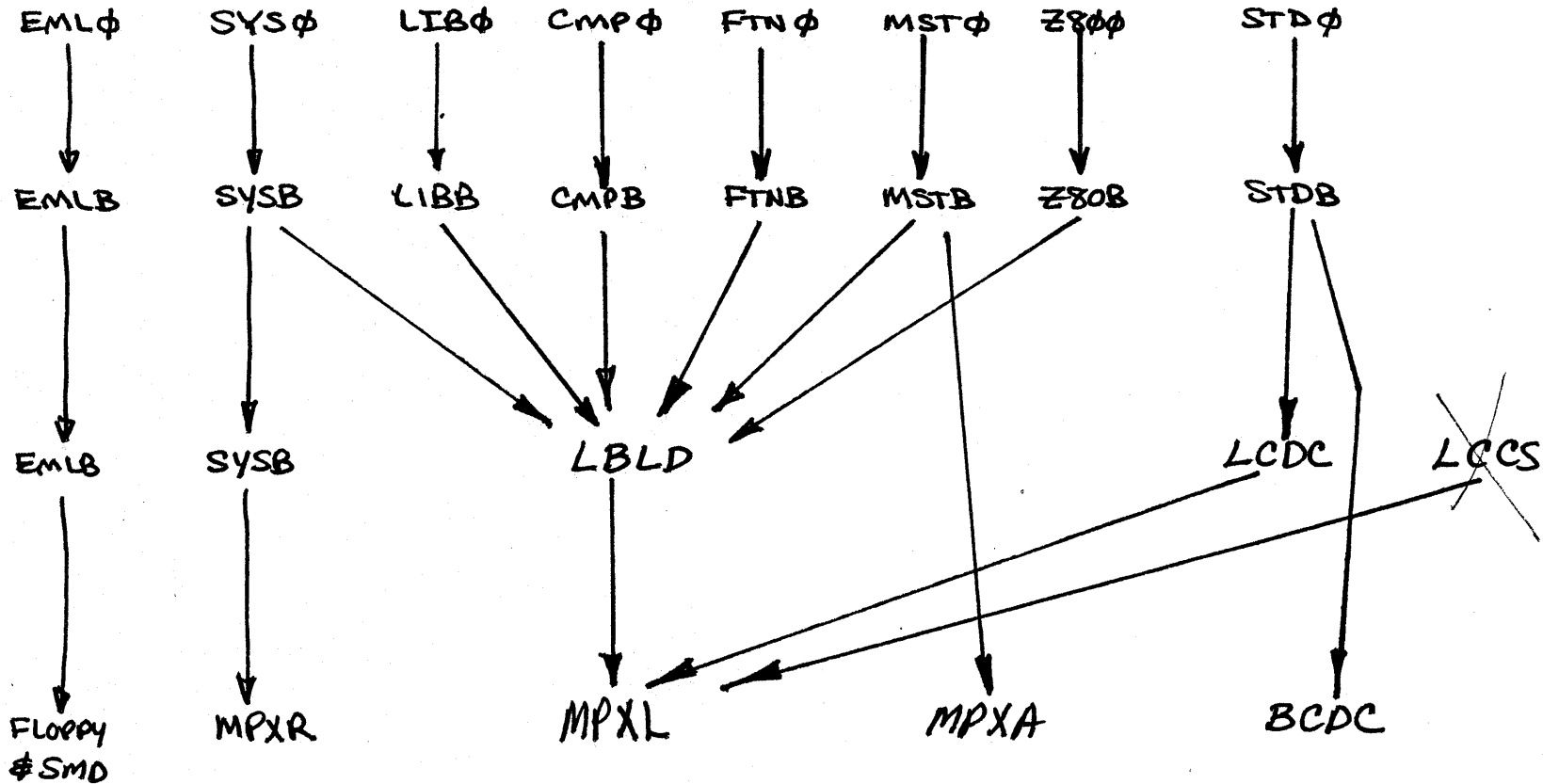
9-13-82

OLDPL
STORAGE

CURRENT
OLDPL &
BUILD JOBS

RELOCATABLE
BINARIES
&
ABS BINARIES

IN USE



M P - 3 2 P R O D U C T S E T

S M F G

This ownername contains some of the files that create the Deliverable entities that comprise the MPX/OS System as used on the MP-32.

The deliverables and the jobs that create them are listed below:

<u>DELIVERABLE</u>	<u>CREATION JOB</u>	<u>DESCRIPTION</u>
U DISK FORMATTER Floppy disk	fmtr-fd.run,emlb	Formats SMD prior to initialization.
EMULATOR Floppy	eml-fd.run,emlb	Full MP-60 Emulator on floppy disk
TAPEBOOT Floppy	boot-fd.run,emlb	Overlays Full Emulator to load binary program from tape for SMD initialization.
INSTALL Program Binary Tape	install.run,sysb	Program to place initial system on SMD.
DUMPSYS Tape	dumpsys.bld,sysb	Initial microcode, boot, resident, and library placed on SMD by INSTALL.
FMPTAPE Tape	fmptape.bld,sysb	Initial setup and job files placed on SMD by INSTALL.
QWIKSTART Floppy	qwik-fd.run,emlb	Shortened Emulator on floppy disk. Reads full emulator from SMD.
Release Tape 01	make-tape01,smfg	FMP dump of EML0, EMLB, SYS0, SYSB
Release Tape 02	make-tape02,smfg	FMP dump of LIB0, LIBB, CMP0, CMPB, FTN0, FTNB, MST0, MSTB, Z800*, Z80B*, STD0*, STDB*, TDVB
Release Tape 03	make-tape03,smfg	FMP dump of SMFG, MPXR, MPXL, MPXS, JOBS, FJOB, MPXA, BCDC*, MAIL*, LBLD, LCDC*, DS*
Release Tape 04	Make-tape04,smfg	FMP dump of SYSL
Release Tape 05	Make-tape05,smfg	FMP dump of EMLL, LBLL, LIBL, CMPL, FTNL
Release Tape 06	Make-tape06,smfg	FMP dump of MSTL, Z80L, STDL,

BCDL,LCDL

DSKUTIL Tape dskutil.run,sysb Stand-alone program to investigate SMD data.

* NOTE: Ownernames marked with * may not be present on all release tapes.

The above materials constitute MPX/OS V3 and the MP-32 PRODUCT SET. Official modifications to this software are released by the Information Sciences Division (formerly Systems Technology Division). Modifications are coordinated through PSR Coordinator, Information Sciences Division, Control Data Corporation, Sunnyvale, CA.

Contained in ownernames EMLB, SYSB, LIBB, CMPB, FTNB, MSTB, Z80B, STDB and SMFG are job files each called BLD-PLAN.RUN. When these files are executed, the output produces a MP-32 MPX/OS V3 CONSTRUCTION NOTEBOOK. The first page or pages of each section of the notebook provide an overview of the process used to re-construct the products included in the files having that particular ownername.

A convention has been established for the naming of the files involved in the re-constructing process. The 14 character portion of the MPX/OS filename always includes a suffix which follows a period (.). The suffix is 2 or 3 characters long and is taken from the following set:

- .pl - UPDATE Program Library
- .bid - A job used to build a product or portion of a product
- .lst - Listing produced by execution of a .bid or .run file.
- .rel - A relocatable binary
- .abs - An absolute binary
- .dsm - Deadstart Microcode
- .run - A job used to copy information or produce a file
- .inc - Ratfor Include text
- .doc - Documentation
- .txt - Text

The period which precedes the suffix is the only period allowed in the filename.

Because of the 14 character limitation, additional naming rules are necessary:

1. Oldpl names must be 3 characters or less.
2. Product names must be 6 characters or less, or use an alias which is 6 characters or less (ex: COPYSBF vs CPYSBF).

As a product is re-constructed, the process moves through files having 3 ownernames. The jobs that create Oldpls with various modifications (GSD PSRs, STD PSRs, and LOCAL mods) are found in ownername XXX0 where XXX is one of the product groups. The intermediate Oldpls are placed in the XXX0 ownername, but the final result of the XXX0 jobs is an Oldpl which is placed in the XXXB ownername. The products are built from this "LOCAL" Oldpl (whose edition is always ZZ).

The .bid jobs which produce the product binaries are found

in the XXXB ownername. The relocatable binaries produced are placed in a common ownername; usually LBLD, but also LCDC. The listing output of the .bid jobs are placed in the XXXL ownername.

The LBLD (or LCDC) ownername contains product relocatables, jobs that produce product absolutes, and a job to produce an MPX/OS Library.

The re-construction process is split across ownernames so that individual operations may be carried out without loading all the files necessary to accomplish all operations. For example, if COPYCF must be modified, only ownername MSTB need be loaded. When the modification is complete and tested, then ownername LBLD and LCDC are loaded, a new absolute is made and a new Library created. If the modification is to be included in the LOCAL Dldpl, then MSBO would be loaded and the appropriate jobs run.

The following chart relates the various products to the ownernames where they reside:

PRODUCT	PL OWNER	BUILD OWNER	LIST OWNER	BINARY OWNERNAME
UDISKFMTR	EMLO	EMLB	EMLL	EMLB / Floppy
EMULATOR	EMLO	EMLB	EMLL	EMLB / Floppy / smd
TAPEBOOT	EMLO	EMLB	EMLL	EMLB / Floppy
QWIKSTART	EMLO	EMLB	EMLL	EMLB / Floppy
X-RESIDENT	SYSO	SYSB	SYSL	SYSB / MPXR
BLKDEBLK	SYSO	SYSB	SYSL	LBLD / MPXL
TASKMON	SYSO	SYSB	SYSL	LBLD / MPXL
MPXBOOT	SYSO	SYSB	SYSL	SYSB / smd
INSTALL	SYSO	SYSB	SYSL	SYSB / Tape
DUMPSYS		SYSB	SYSL	smd, MPXR & MPXL / Tape
DSKUTIL	SYSO	SYSB	SYSL	SYSB / Tape
FMPTAPE		SYSB		JOBS, FJOB, MPXS / Tape
CATLIST	LIBO	LIBB	LIBL	LBLD / MPXL
COPYL	LIBO	LIBB	LIBL	LBLD / MPXL
COSY	LIBO	LIBB	LIBL	LBLD / MPXL
FMP	LIBO	LIBB	LIBL	LBLD / MPXL
PCC	LIBO	LIBB	LIBL	LBLD / MPXL
PRELIB	LIBO	LIBB	LIBL	LBLD / MPXL
UTIL	LIBO	LIBB	LIBL	LBLD / MPXL
UPDATE	LIBO	LIBB	LIBL	LBLD / MPXL
CMP	CMPO	CMPB	CMPL	LBLD / MPXL
COMPASS	CMPO	CMPB	CMPL	LBLD
FTN	FTNO	FTNB	FTNL	LBLD / MPXL
IPL	FTNO	FTNB	FTNL	LBLD / MPXL
FTNCMP	FTNO	FTNB	FTNL	LBLD / MPXL
RUNTIME	FTNO	FTNB	FTNL	LBLD / MPXL
CL	FTNO	FTNB	FTNL	LBLD / MPXL
COPYCF	MSTO	MSTB	MSTL	LBLD / MPXL
COPYSCF	MSTO	MSTB	MSTL	LBLD / MPXL
SYSDUMP	MSTO	MSTB	MSTL	MPXA
TDUMP	MSTO	MSTB	MSTL	LBLD / MPXL

ED	MSTO	MSTB	MSTL	LBLD / MPXL
EDI	MSTO	MSTB	MSTL	LBLD / MPXL
RATFOR	MSTO	MSTB	MSTL	LBLD / MPXL
SS	MSTO	MSTB	MSTL	LBLD / MPXL
REF. MAN.	MSTO	MSTB	MSTL	na
Z80ASM	Z800	Z80B	Z80L	LBLD / MPXL
Z80LDR	Z800	Z80B	Z80L	LBLD / MPXL
STLIB	STDO	STDB	STDL	BCDC
STPRM	STDO	STDB	STDL	BCDC
FMT	STDO	STDB	STDL	LCDC / MPXL
MAIL	STDO	STDB	STDL	BCDC
XREFUP	STDO	STDB	STDL	LCDC / MPXL
ITEMIZE	STDO	STDB	STDL	LCDC / MPXL
LISTF	STDO	STDB	STDL	LCDC / MPXL
ZAP	STDO	STDB	STDL	LCDC / MPXL
DAYERR	STDO	STDB	STDL	BCDC
FMAINT	STDO	STDB	STDL	BCDC
TCYB	STDO	STDB	STDL	BCDC
REF. MAN.	STDO	STDB	STDL	na

It is suggested that the person responsible for maintenance of this system at a site create a "system-build" SMD disk pack and load release tapes 01, 02, and 03 on the pack. Then each ownername should be dumped to its own mini-tape. Then, when a particular product is to be modified, its ownername can be loaded on the production system, the mods checked out, and then moved back to the "build" pack for long-term storage.

NOTES concerning the System Build Process

1. One assembly error is expected in the SYSQS module at levels AB & AC. See build job comments.
2. Resident AB is exactly identical to FNDC's Resident C2 except JLDR which contains an additional mod (CCS0130C). All relocatable binaries except JLDR have been block-by-block compared to those that built C2.
3. The emulator of AB/AC is that of FNDC as of 3/15/84, except for the addition of PLSS02 mod. I.E. PLSS01 and CCS0156 are included and PLSS02 was added.
4. Here is a narrative of the System Build Process:
 - a. Run all EML and SYS build jobs except EML-SYS.RUN and MPXBOOT.RUN. Call the result tape of DUMPSYS.BLD "TEMP-DUMPSYS". FMP dump the files EML-SYS.RUN, EML.ABS, MPXBOOT.RUN, & MPXBOOT.REL to be loaded on the new pack.
 - b. Use new floppy disk Formatter and format a new SMD pack. Note: formatter runs in two phases as seen by the patterns of the lights on the SMD controller. Phase 1 has lights 4,5,6,&7 of the BUS OUT register flashing and runs 6:36 min after the the microrun lite is lit. Phase 2 has lights 1,4,5,6,&7 flashing and runs an additional 4:33 min for a total time of 11:09 Insure that the above happens as described...it's the only way to insure that the SMD has been properly formatted.
 - c. At this point one should load the new "FULL EMULATOR" floppy and proceed. Because of an un-resolved bug, one must do the following instead:
 - (1). Mount an existing, MPX/OS V3 SMD disk with a good emulator.
 - (2). Using QWIKSTRT floppy, deadstart & get "What Resident?" message.
 - (3). Master clear and REMOVE THE GOOD SMD DISK PACK...
 - (4). Mount the new SMD disk back on the drive.
 - d. Load & deadstart the TAPEBOOT floppy. (Use the TAPEBOOT that matches the emulator loaded in "c." above.)
 - e. MC and <esc>@I which loads INSTALL binary from INSTALL tape. Run the INSTALL program with "TEMP-DUMPSYS" and FMPTAPE. The interactions for INSTALL are described in the Installation Handbook (17329115 B). Additionally, note the following:
 - (1). Enter SYSTEM01 as the DEVICE IDENTIFIER.
 - (2). The MP-32 disk is a Double-density 858 (1867-20).
 - (3). For a single-disk system, the disk IS a system device.
 - (4). 1500 is a good number of labels in the label file.
 - (5). Use TR as the MPX Resident and TL as the MPX library

edition numbers during the load process. You will later load Release Tape03 to the disk to get the working resident and library.

- (6). After the Load Summary is output, the FMP tape may run away. Not to worry.
- f. MC & deadstart QWIKSTRT. (Use the QWIKSTRT that matches the emulator loaded in "c." above.)
- g. Bring up the system.
- h. Load the EML-SYS and MPXBOOT jobs and binaries FMP dumped in "a." above, using JB LOADALL,FJOB.
- i. Run EML-SYS.RUN and MPXBOOT.RUN to place the new emulator and boot on the new SMD.
- j. MC, deadstart the new QWIKSTRT.
- k. Bring up the system, test microcode and boot. If good, continue, else go to "a."
- l. Mount original build disk. DS & run old QWIKSTRT. Run EML-SYS.RUN and MPXBOOT.RUN to put new emulator and boot on the build disk.
- m. Continue with Library builds.
- n. When library is ready (LIBRARY.BLD,LBLD), re-DS and run new library.
- o. Run DUMPSYS.BLD again, picking up new microcode, boot, & library.
- p. Build is now finished.
- t. Now do a complete installation to prove-out all components:
 - (1). Format a new disk with new FORMATTER floppy.
 - (2). Load a full emulator (See step "c." above).
 - (3). Run INSTALL with final DUMPSYS tape.
 - (4). DS & run new QWIKSTRT
 - (5). Load Release-Tape03 on the new pack with JB LOADALL,FJOB. Files of LBLD and LCDC may then be released.
 - (6). Pack is ready to use.

Manuals peculiar to the MP-32:

MP-32 General Information Manual	03/23/77	17329200	A
MP-60 MPX/OS V3.0 Reference Manual	02/01/83	17329125	A
MP-32 MP-60 Emulation Reference Manual	03/11/83	17329120	C
Interactive Terminal System V2 RM	02/01/83	17329140	A
MP-60 SOFTWARE TOOLS User's Manual	12/27/82	17329105	D
MASS Reference Manual	12/30/82	17328900	C
MPX/OS V3 Installation HB	03/15/83	17329115	B
Microtec Z-80 Relocatable Macro Assembler RM	10/01/79	CCSYSTEM-023-RMA	
Microtec Z-80 Linking Loader Manual	10/01/79	CCSYSTEM-024-LL	
MP-32 COMPASS RM	01/03/83	14061305	A
MPX/OS V3 Operator's Guide	01/05/83	17329145	A
BSC/Multiport Memory (Model 65109) Hardware RM	78/07/25	41618400	03
Unreleased Internal Software Tools User's Manual	82/06/14	1732xxxx	A
MPX/OS V3 System Release Bulletin	(Not Yet)	????	
Systems Technology Division PSR Summary	(Not Yet)	????	

Manuals used by both MPP and MP-32 systems:

MP-60 UPDATE Reference Manual	80/03/05	14351100	B
MP-60 UTILITY Reference Manual	80/03/15	14063800	B
MP-60 PRELIB Reference Manual	79/02/15	14062200	E
MP-60 FORTRAN Reference Manual	82/10/01	14061100	G
Program Command Console RM	78/12/12	14391700	

EQUIPMENT MAINTENANCE MANUALS

Basic Microprogrammable Processor HW Maint	39451400 B
Breakpoint Controller and Breakpoint Panel HW Maint	96729000 B
I/O TTY Controller HW Maint	96728900 B
512-, 2048-, and 8192 Instr Micromemory HW Maint	96767900 C
Model 65109 HW Maint	96767820 01
Model 65109 QDS RM	96767860 01
Model 65109 Micro Diagnostic RM	96767870
Model 65109 CYBER-18 Emulator RM	96768600 01
Multiple-Port Memory HW Maint	96767710 02
QDS Memory and Interface HW Maint	96768600 B
65109-19 Floppy Disk Drive HW Maint	75736120 H
SMD Hardware RM	83317300 E
SMD HW Maint	83311300 W
SMD Controller Formatter HW Maint	83312400 N
SMD Drive Interface Hardware Maint/Ref Manual	96761300 C
Magnetic Tape Formatter Field Service / RM	49760400 C
Magnetic Tape Transport RM	49756300 E
Magnetic Tape Transport Field Service Manual	49756400 V
Magnetic Tape Transport Parts Identification	49756500 V
Magnetic Tape Transport Controller HW Ref/Maint	89600866 A
Line Printer Prep and Instruction	44677817 B
Line Printer Parts Identification	95445067 H
Line Printer Key to Logic Symbol	95390100 G
1811-2/752 HW Maint	62957400 G
1811-2/752 Op Guide	62957300 E
751-10 Terminal Subsystem Operator's Guide	62951400 F
811-1/751 HW Maint	60475021 A
60144-2 Programmable Multiple Access Controller	44619400 D
2558-3 HW Maint	74873946 C
2558-3 Installation	74873993 C
Micro Programmable Communications Line Adapter (MPCLA)	60475570 02
Buffered Communications Line Adapter	96768550 02

(Above list does not contain all available hardware manuals.)

A S D M P P M A N U A L S

MPX/OS V2. Reference Manual	10817300 D
MPX/OS V2. Operator's Guide	10992100 A
MPX/OS Systems Version 2.0 Installation Handbook	11110000 A
MICRO Reference Manual	14062700 C
MPX-60 Computer System Family Reference Manual	14306500 D
TEXT EDITOR Reference Manual	14624000

O B S O L E T E M A N U A L S

MP-60 MPX/OS Reference Manual	(Version 1.0) 78/02/24 17329110 A
MP-60 COSY Reference Manual	(Obsoleted by JDATE) 75/02/15 14062100 A


```
*JOB(ID=MAKE-TAPE01)
*SCHED(CM=5,PL=5000,TL=99999,SCR=100,MT=1)
#
# THIS JOB MAKES MP-32 SOFTWARE RELEASE TAPE 01.
# RELEASE TAPE 01 CONTAINS:
#   MPX/OS VERSION 3 SOURCE CODE
#   JOB FILES THAT BUILD EACH MODULE
#   MODULE BINARIES
#   A JOB FILE THAT PRODUCES AN MPX-RESIDENT
#
#   MP-32 VERSION OF MP-60 EMULATOR SOURCE CODE
#   JOB FILES THAT BUILD EACH MICROCODE MODULE
#   MICROCODE MODULE BINARIES
#   JOB FILES TO BUILD THE MICROCODE FLOPPY DISKS
#
*EQUIP(10=MT)
#FMP
*DUMP,0,10,SYSO,FMP
*DUMP,0,10,SYSB,FMP
*DUMP,0,10,EMLO,FMP
*DUMP,0,10,EMLB,FMP
*VERIFY,10
*OUT
*UNLOAD(10)
*CLOSE(52)
*CATTLIST(U=SYSO/SYSB/EMLO/EMLB,O=E,K=CATTLIST)
*EOJ
```

*JOB(ID=MAKE-TAPE02)

*SCHED(CM=5,PL=5000,TL=9999,SCR=100,MT=1)

THIS JOB MAKES MP-32 SOFTWARE RELEASE TAPE 02.
RELEASE TAPE 02 CONTAINS:
MPX/OS PRODUCT SET LIBRARY SOURCE CODE
JOB FILES THAT BUILD EACH PRODUCT

THE PRODUCTS ARE DIVIDED INTO SEVERAL "OWNERS":
LIBO/LIBB - LIBRARY PROGRAMS OBTAINED FROM GSD (WAS ASD)
CMPO/CMPB - MP-32 VERSION OF COMPASS PRODUCT
FTNO/FTNB - THE FORTRAN PRODUCT
MSTO/MSTB - LIBRARY PROGRAMS ORIGINATING WITH STD (WAS GPD)
Z800/Z80B - MICROTEC Z80 CROSS ASSEMBLER AND LOADER
STDO/STDB - UNSUPPORTED MP-32 SOFTWARE TOOLS
TDVB - STD SOFTWARE TOOLS IN DEVELOPMENT

*EQUIP(L0=MT)

*FMP

*DUMP,0,10,LIBO,FMP

*DUMP,0,10,LIBB,FMP

*DUMP,0,10,CMPO,FMP

*DUMP,0,10,CMPB,FMP

*DUMP,0,10,FTNO,FMP

*DUMP,0,10,FTNB,FMP

*DUMP,0,10,MSTO,FMP

*DUMP,0,10,MSTB,FMP

*DUMP,0,10,Z800,FMP

*DUMP,0,10,Z80B,FMP

*DUMP,0,10,STDO,FMP

*DUMP,0,10,STDB,FMP

*DUMP,0,10,TDVB,FMP

*VERIFY,10

*OUT

*UNLOAD(10)

*CLOSE(52)

*CATLIST(O=E,K=CATLIST,U=LIBO/LIBB/CMPO/CMPB/FTNO/FTNB/MSTO/MSTB)

*CATLIST(O=E,K=CATLIST,U=Z800/Z80B/STDO/STDB/TDVB)

*EOJ

*JOB(ID=MAKE-TAPE03)

*SCHED(CM=5,PL=5000,TL=99999,SCR=100,MT=1)

#

THIS JOB MAKES MP-32 SOFTWARE RELEASE TAPE 03.

RELEASE TAPE 03 CONTAINS:

OWNER CONTENT

#

SMFG JOBS THAT WRITE RELEASE TAPES & OVERVIEW DOCUMENTS

#

MPXR MPX/OS RESIDENT BINARY(IES)

MPXL MPX/OS LIBRARY BINARY(IES)

MPXS MPX/OS INITIALIZATION FILES

#

JOBS STANDARD UTILITY JOBS

FJOB UTILITY JOBS TO MANAGE USER FILES

#

MPXA BINARY FILES USED BY JOBS/FJOB

BCDC BINARY FILES USED BY JOBS/FJOB

MAIL FILES USED BY UNSUPPORTED PRODUCT "MAIL"

#

LBLD BINARY FILES AND JOBS TO BUILD A LIBRARY

LCDC BINARY FILES AND JOBS OF UNSUPPORTED LIBRARY ADDITIONS

#

OS VARIOUS DOCUMENTS & LISTS FROM SVLOPS MP-32 DEVELOPMENT

#

*EQUIP(10=MT)

*FMP

*DUMP,0,10,SMFG,FMP

*DUMP,F,10,MPX-RESIDENT,MPXR,AC,****

*DUMP,F,10,MPX-LIBRARY,MPXL,AC,****

*DUMP,F,10,MPX-LIBRARY,MPXL,MN,****

*DUMP,0,10,MPXS,FMP

*DUMP,0,10,JOBS,FMP

*DUMP,0,10,FJOB,FMP

*DUMP,0,10,MPXA,FMP

*DUMP,0,10,BCDC,FMP

*DUMP,0,10,MAIL,FMP

*DUMP,0,10,LBLD,FMP

*DUMP,0,10,LCDC,FMP

*DUMP,0,10,OS,FMP

*VERIFY,10

*OUT

*UNLOAD(10)

*CLOSE(52)

*CATLIST(O=E,K=CATLIST,U=SMFG/MPXS/JOBS/FJOB/MPXA/BCDC/MAIL)

*CATLIST(O=E,K=CATLIST,U=OS/LBLD/LCDC)

*EOJ

```
*JOB(ID=TAPE04)
*SCHED(CM=5,PL=5000,SCR=100,TL=99999,MT=1)
*EQUIP(10=MT)
*IDENT,5,SYSTEM01
*DUMP,0,10,SYSL,FMP
*VERIFY,10
*OUT
*UNLOAD(10)
*CLOSE(52)
*CATLIST(U=SYSL,K=CATLIST,O=E)
*EDJ
```

```
*JOB(ID=TAPE05)
*SCHED(CM=5,PL=5000,SCR=100,TL=99999,MT=1)
*EQUIP(10=MT)
*P
*IDENT,5,SYSTEM01
*DUMP,0,10,EMLL,FMP
*DUMP,0,10,LBLL,FMP
*DUMP,0,10,LIBL,FMP
*DUMP,0,10,CMPL,FMP
*DUMP,0,10,FTNL,FMP
*VERIFY,10
*OUT
*UNLOAD(10)
*CLOSE(52)
*CATLIST(U=EMLL/LBLL/LIBL/CMPL/FTNL,K=CATLIST,O=E)
*EQJ
```



```
*JOB(ID=TAPE06)
*SCHED(CM=5,PL=5000,SCR=100,TL=99999,MT=1)
*EQUIP(10=MT)
*P
*IDENT,5,SYSTEM01
*DUMP,0,10,MSTL,FMP
*DUMP,0,10,Z80L,FMP
*DUMP,0,10,STD L,FMP
*DUMP,0,10,BCDL,FMP
*DUMP,0,10,LCDL,FMP
*VERIFY,10
*OUT
*UNLOAD(10)
*CLOSE(52)
*CATLIST(U=MSTL/Z80L/STD L/BCDL/LCDL,K=CATLIST,O=E)
*EQJ
```

STOP*ENDST*

#SAVEPF(62,BLD-PLAN,LST,SMFL,01,)

*EJ BLD-PLAN

M P - 3 2 P R O D U C T S E T

E M L

The MP-32 MP-60 Emulator source code is kept here. Build jobs and binaries are also kept here. The MP-32 MP-60 Emulator is maintained by Information Sciences Division (SVLOPS).

EML0/EMLB owner last dumped on -----

File Name	Description	Last Build
eml.pl,eml0,AA,eml0	Former PSR level PL	#1
eml-pl-sps.bld,eml0,01,eml0	Build current PSR level	
eml-pl-sps.lst,eml1,01,eml1	Listing of above .bld job	
eml.pl,eml0,AB,eml0	Current PSR level PL	-----
eml-pl-loc.bld,eml0,01,eml0	Build PL with Local mods	
eml-pl-loc.lst,eml1,01,eml1	Listing of above .bld job	
eml.pl,emlb,ZZ,emlb	Local (working) PL	-----
eml.bld,emlb,01,emlb	Build the MP-60 Emulator	
eml.lst,eml1,01,eml1	Listing of above .bld job	
eml.dsm,emlb,01,emlb		-----
eml-fd.run,emlb,01,emlb	Make MP-60 Emulator Floppy	
eml-fd.lst,eml1,01,eml1	Listing of above .run job	
Floppy Disk		-----
eml.abs,emlb,01,emlb		-----
eml-sys.run,emlb,01,emlb	Place Emulator on System Disk	
eml-sys.lst,eml1,01,eml1	Listing of above .run job	
System Disk		-----
qwik.bld,emlb,01,emlb	Build Qwikstrt Microcode	
qwik.lst,eml1,01,eml1	Listing of above .bld job	
qwik.dsm,emlb,01,emlb		-----
qwik-fd.run,emlb,01,emlb	Make Qwikstrt Floppy Disk	
qwik-fd.lst,eml1,01,eml1	Listing of above .run job	
Floppy Disk		-----
boot.bld,emlb,01,emlb	Build Tapeboot Microcode	
boot.lst,eml1,01,eml1	Listing of above .bld job	
boot.dsm,emlb,01,emlb		-----
boot-fd.run,emlb,01,emlb	Make Tapeboot Floppy Disk	
boot-fd.lst,eml1,01,eml1	Listing of above .run job	
Floppy Disk		-----
fmtr.bld,emlb,01,emlb	Build Micro Disk Formatter	
fmtr.lst,eml1,01,eml1	Listing of above .bld job	
fmtr.dsm,emlb,01,emlb		-----
fmtr-fd.run,emlb,01,emlb	Make UDSKFMTR Floppy Disk	
fmtr-fd.lst,eml1,01,eml1	Listing of above .run job	
Floppy Disk		-----
wfloppy.bld,emlb,01,emlb	Build WFLOPPY Utility Program	
wfloppy.lst,eml1,01,eml1	Listing of above .bld job	
wfloppy.rel,emlb,01,emlb		-----
bld-plan.txt,emlb,01,emlb	Contains this text	
bld-plan.run,emlb,01,emlb	Produce Product Build Doc	

Integration instructions for next release:

1. None. Complete at PSR Level AB.

NOTES:

- *1 This is the former PSR level. It was the "Current" PSR level PL at the previous release. Normally this PL does not appear on the Release Tapes.

STOP*ENDST*

*OPEN(10,EML.PL,EMLB,ZZ, ,R)

*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/30/84
 16:31:13

OLDPL AUDIT: TOTAL YANKED ACTIVE RUNNING

DECK	YANK\$\$\$	TOTAL	YANKED	ACTIVE	RUNNING
COMDECK	HISTORY	32	0	32	33
COMDECK	IDENT	3	0	3	36
COMDECK	NDSUM	2	0	2	38
COMDECK	DOCU	43	0	43	81
COMDECK	INTRUPT	83	0	83	164
COMDECK	F2	73	0	73	237
COMDECK	STATMODE	112	0	112	349
COMDECK	INTMASK	79	0	79	428
COMDECK	TRANSFORM	45	0	45	473
COMDECK	EQUATES	81	0	81	554
COMDECK	F1	52	0	52	606
COMDECK	AUT01	128	0	128	734
COMDECK	AUT02	202	0	202	936
COMDECK	TBOOT	125	0	125	1061
COMDECK	AUT03	80	0	80	1141
COMDECK	EMUL	376	0	376	1517
COMDECK	INSTR	3489	0	3489	5006
COMDECK	ENDFIN	3	0	3	5009
DECK	EMULATOR	16	0	16	5025
DECK	QWIKSTRT	13	0	13	5038
DECK	TAPEBOOT	13	0	13	5051
DECK	WFLOPPY	93	0	93	5144
DECK	BOOTMAC	149	0	149	5293
DECK	SMDFMTR	878	0	878	6171
DECK	UDSKFMTR	1036	0	1036	7207

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED
LEV-AC	3	HISTORY

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	
HISTORY	29	LEV-AC
IDENT	3	
NDSUM	2	
DOCU	43	
INTRUPT	83	
F2	73	
STATMODE	112	
INTMASK	79	
TRANSFORM	45	
EQUATES	81	
F1	52	
AUT01	128	
AUT02	202	
TBOOT	125	
AUT03	80	

```

EMUL      376
INSTR     1441
ENDFIN    3
EMULATOR 16
QWIKSTRT 13
TAPEBOOT 13
#FLOPPY   93
BOOTMAC   149
SMDFMTR   878
UDSKFMTR 1036

```

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK	DECKS CALLING THE COMMON DECK
IDENT	EMULATOR QWIKSTRT TAPEBOOT
NOSUM	QWIKSTRT TAPEBOOT
DOCU	EMULATOR
INTRUPT	EMULATOR
F2	EMULATOR QWIKSTRT TAPEBOOT
STATMODE	EMULATOR QWIKSTRT TAPEBOOT
INTMASK	EMULATOR QWIKSTRT TAPEBOOT
TRANSFORM	EMULATOR QWIKSTRT TAPEBOOT
EQUATES	EMULATOR QWIKSTRT TAPEBOOT
F1	EMULATOR QWIKSTRT TAPEBOOT
AUTO1	EMULATOR QWIKSTRT TAPEBOOT
AUTO2	EMULATOR QWIKSTRT
TBOOT	TAPEBOOT
AUTO3	EMULATOR QWIKSTRT TAPEBOOT
EMUL	EMULATOR
INSTR	EMULATOR
ENDFIN	EMULATOR QWIKSTRT TAPEBOOT

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK	COMMON DECKS CALLED BY THE DECK
EMULATOR	IDENT DOCU INTRUPT F2 INTMASK STATMODE TRANSFORM EQUATES F1 AUTO1
QWIKSTRT	AUTO2 AUTO3 EMUL INSTR ENDFIN IDENT NOSUM F2 STATMODE INTMASK TRANSFORM EQUATES F1 AUTO1 AUTO2
TAPEBOOT	AUTO3 ENDFIN IDENT NOSUM F2 STATMODE INTMASK TRANSFORM EQUATES F1 AUTO1 TBOOT AUTO3 ENDFIN

NULL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

HISTORY

XREFUP FINISHED.

*CLOSE(10)

*LISTF


```
*JOB(ID=EML-PL-SPS.BLD)
#SCHEM(CM=9,TL=9999,PL=10000,SCR=40)
#
# This job builds a higher PSR Level release Oldpl from one of
# a given level and the appropriate PSR code.
#
# PSR code is obtained from the Systems Technology Division
# (of CDC) PSR Summaries.
#
#-----
# This portion of the job is temporary. It resequences the Level AB
# OLDPL and prepares for AC generation.
#
*OPEN(5,EML.PL,EMLO,AB,EMLO,R)
*UPDATE(F,P=5,N=6,*=/,O=A,S=7)
/FINIS
*CLOSE(6)
*REWIND(7)
*UPDATE(F,I=7,N=10,*=/,O=A)
*CLOSE(7)
*REWIND(10)
#-----
*RELEASE(EML.PL,EMLO,AC,EMLO)
#-----*OPEN(10,EML.PL,EMLO,AB,EMLO,R)
*UPDATE(P=10,N=20,O=A,*=/)
// PLACE PSR CODE AFTER THIS LINE.
/IDENT LEV-AC
/INSERT HISTORY.3
LEV-AC 08 AUG 84 Fariss, G. B.
THIS POINT DIVIDES LEVEL AC FROM HIGHER LEVELS.
/FINIS
*SAVEPF(20,EML.PL,EMLO,AC,EMLO)
*SAVEPF(62,EML-PL-SPS.LST,EMLL,01,EMLL)
*EQJ
```

```
*JOB(ID=EML-PL-LOC.BLD)
*SCHED(CM=9,TL=9999,PL=10000,SCR=40)
#
# This job adds local-site modifications to the standard Oldpl
# and builds the final Oldpl (always Edition ZZ).
#
*RELEASE(EML.PL,EMLB,ZZ,EMLB)
*OPEN(10,EML.PL,EMLO,AC,EMLO,R) # Change the edition as appropriate
*UPDATE(P=10,N=20,O=A,*=/)
// PLACE LOCAL-MOD CODE AFTER THIS LINE.
/FINIS
*SAVEPF(20,EML.PL,EMLB,ZZ,EMLB)
*SAVEPF(62,EML-PL-LOC.LST,EMLL,01,EMLL)
*EOJ
```

```
*JOB(ID=EML.BLD)
*SCHED(CM=10,PL=41000,SCR=100,TL=99999)
#
# This job builds the MP-32 MP-60 Emulator and produces a Deadstart
# Binary Object file and a Pure Binary Object file.
#
*OPEN(1,EML.PL,EMLB,ZZ,EMLB,R)
*UPDATE(Q,P=1,C=2,*=/)
/COMPILE EMULATOR
/FINIS
*MASS(I=2,L,P=10,X=11)
*SAVEPF(10,EML.DSM,EMLB,01,EMLB)
*SAVEPF(11,EML.ABS,EMLB,01,EMLB)
*SAVEPF(62,EML.LST,EMLL,01,EMLL)
#EOJ
```

*JOB(ID=EML-FD.RUN)

*SCHED(CM=10, PL=41000, SCR=100, TL=99999, FDD=1)

#

This job makes a new MP-32 MP-60 Emulator Floppy Disk.

#

*OPEN(10, EML.DSM, EMLB,01, EMLB,R)

*OPEN(2, WFLOPPY.REL, EMLB,01, EMLB,R)

*EQUIP(20=FDD)

*LOAD(2)

*RUN

EMULATOR PSR AB MPX/DS V3

G N 1 1 0 4 1 4 0 0 G I @

*SAVEPF(62, EML-FD.LST, EMLL,01, EMLL)

*EOJ

*JOB(ID=EML-SYS.RUN)

*SCHED(CM=12, PL=1000, SCR=10, TL=99999)

#

This Job replaces the MP-60 Emulator on the current system disk.

#

*OPEN(1, EML.ABS, EMLB, 01, EMLB, R)

*PRELIB

*MICR

*ALT(ALT=1)

*ENDPLIB

*SAVEPF(62, EML-SYS.LST, EMLL, 01, EMLL)

*EOJ

```
*JOB(ID=QWIK.BLD)
*SCHED(CM=10,PL=5000,TL=100)
#
# This job builds the QWIKSTRT deadstart microcode module.
#
*OPEN(1,EML.PL,EMLB,ZZ,EMLB,R)
*UPDATE(Q,P=1,C=2,*=/)
/COMPILE QWIKSTRT
/FINIS
*MASS(I=2,L,P=10)
*SAVEPF(10,QWIK.DSM,EMLB,01,EMLB)
*SAVEPF(62,QWIK.LST,EMLL,01,EMLL)
*EQJ
```

*JOB(ID=QWIK-FD.RUN)

*SCHED(CM=9,PL=5000,TL=100,FDD=1)

#

This job makes a new QWIKSTRT floppy disk.

#

*OPEN(10,QWIK.DSM,EMLB,01,EMLB,R)

*OPEN(2,WFLOPPY.REL,EMLB,01,EMLB,R)

*EQUIP(20=FDD)

*LOAD(2)

*RUN

QWIKSTRT PSR AB MPX/DS V3

G N 1 1 0 4 1 4 0 0 G I 2

*SAVEPF(62,QWIK-FD.LST,EMLL,01,EMLL)

*EOJ

```
*JOB(ID=BOOT.BLD)
*SCHED(CM=10,PL=2000,SCR=10,TL=99999)
#
# This job builds the TAPEBOOT deadstart microcode module. TAPEBOOT is
# used to load the INSTALL or DSKUTIL programs.
#
*OPEN(1,EML.PL,EMLB,ZZ,EMLB,R)
*UPDATE(Q,P=1,C=2,*=/)
/COMPILE TAPEBOOT
/FINIS
*MASS(I=2,L,P=10)
*SAVEPF(10,BOOT.DSM,EMLB,01,EMLB)
*SAVEPF(62,BOOT.LST,EMLL,01,EMLL)
*EOJ
```


*JOB(ID=BOOT-FD.RUN)

*SCHED(CM=9,PL=2000,SCR=10,TL=99999,FDD=1)

#

This job makes a TAPEBOOT floppy disk. TAPEBOOT is used to load
the INSTALL or DSKUTIL programs.

#

*OPEN(10,BOOT.DSM,EMLB,01,EMLB,R)

*OPEN(2,WFLOPPY.REL,EMLB,01,EMLB,R)

*EQUIP(20=FDD)

*LOAD(2)

*RUN

TAPEBOOT PSR AB MPX/DS V3

G N 1 1 0 4 1 4 0 0 G I 2

*SAVEP(62,BOOT-FD.LST,EMLL,01,EMLL)

*EOJ

*JOB(ID=FMTR.BLD)

*SCHED(CM=9,PL=5000,TL=100)

This job builds the SMDFMTR deadstart microcode module.
The module formats a dual-density 858 disk pack.

Note: There are three ways to format a disk pack, all in various stages of dis-repair:

- # 1. The FCR Command deck on em1.pl called SMDFMTR has no corresponding source code; however, it is the one currently in use and is extracted from the Oldpl by this job.
- # 2. The microcode source deck on em1.pl called UDSKFMT. This code formats the disk, tests it, and then exercises the DMA vs Memory accesses. It is quite complicated to run and is probably not worth fooling with.
- # 3. There exist (SMDFIX-INS.BLD,OS,01,OS ???) some modifications to the program INSTALL on os.pl that will enable the INSTALL program to optionally format the disk. Obviously, these modifications are not yet operational.

GBF 5-30-84

*OPEN(1,EML.PL,EMLB,ZZ,EMLB,R)

UPDATE(Q,P=1,C=2,=/)

/COMPILE SMDFMTR

/FINIS

*COPYCF(2,10,1,1,80) # Remove the sequence numbers

*SAVEPF(10,FMTR.DSM,EMLB,01,EMLB)

*SAVEPF(62,FMTR.LST,EMLL,01,EMLL)

*EQJ

*JOB(ID=FMTR-FD.RUN)

*SCHED(CM=9,PL=5000,TL=100,FDD=1)

#

This job makes a new FMTR floppy disk.

#

Note: See notes in FMTR.BLD,EMLB. GBF 7-08-82

#

*OPEN(10,FMTR.DSM,EMLB,01,EMLB,R)

*OPEN(2,WFLOPPY.REL,EMLB,01,EMLB,R)

*EQUIP(20=FDD)

*LOAD(2)

*RUN

SMDFMTR PSR AB MPX/DS V3 [SAME AS "SMD-FORMATTER" 01/20/80 DWD]

G N 1 6 0 8 1 4 0 0 G K G G

*SAVEPF(62,FMTR-FD.LST,EMLL,01,EMLL)

*EOJ

*JOB(ID=WFLOPPY.BLD)

*SCHED(CM=10,PL=1000,TL=100)

#

This job builds the WFLOPPY Utility Program which is used by the
-fd" jobs to write deadstart microcode floppy disks.

#

*OPEN(1,EML.PL,EMLB,ZZ,EMLB,R)

UPDATE(Q,P=1,C=2,=/)

/COMPILE WFLOPPY

/FINIS

*FTN(I=2,X=3,L,R)

*SAVEPF(3,WFLOPPY.REL,EMLB,01,EMLB)

*SAVEPF(62,WFLOPPY.LST,EMLL,01,EMLL)

*EOJ

STOP*ENDST*

*SAVEPF(62,BLD-PLAN.LST,EMLL,01,)

*EOJ BLD-PLAN

M P - 3 2 P R O D U C T S E T

S Y S

The MPX/OS V3 Resident source code is kept here. Build jobs and binaries are also kept here. MPX/OS V3 is maintained by CDC Information Sciences Division. Government Systems Division maintains MPX/OS V2.

SYSO owner last dumped on _____

SYSB owner last dumped on _____

File Name	Description	Last Build
os.pl,sys0,AA,sys0	Previous PSR level PL	*1
os-pl-sps.bld,sys0,01,sys0	Build current PSR level	
os-pl-sps.lst,sysl,01,sysl	Listing of above .bld job	
os.pl,sys0,AB,sys0	Current PSR level PL	-----
os-pl-loc.bld,sys0,01,sys0	Build PL with Local mods	
os-pl-loc.lst,sysl,01,sysl	Listing of above .bld job	
os.pl,sysb,ZZ,sysb	Local (working) PL	-----
bcf.bld,sysb,01,sysb	Batch Control Facility	
bcf.lst,sysl,01,sysl	Listing of above .bld job	
bcf.rel,sysb,01,sysb		-----
bclamgr.bld,sysb,01,sysb	BCLA Manager	
bclamgr.lst,sysl,01,sysl	Listing of above .bld job	
bclamgr.rel,sysb,01,sysb		-----
cccmgr.bld,sysb,01,sysb	CCC Manager	
cccmgr.lst,sysl,01,sysl	Listing of above .bld job	
cccmgr.rel,sysb,01,sysb		-----
crdmgr.bld,sysb,01,sysb	Card Reader Manager	
crdmgr.lst,sysl,01,sysl	Listing of above .bld job	
crdmgr.rel,sysb,01,sysb		-----
crtmgr.bld,sysb,01,sysb	Operator CRT Manager	
crtmgr.lst,sysl,01,sysl	Listing of above .bld job	
crtmgr.rel,sysb,01,sysb		-----
ctt.bld,sysb,01,sysb	Char Translation Tables	
ctt.lst,sysl,01,sysl	Listing of above .bld job	
ctt.rel,sysb,01,sysb		-----
daydmp.bld,sysb,01,sysb	Dayfile Dump	
daydmp.lst,sysl,01,sysl	Listing of above .bld job	
daydmp.rel,sysb,01,sysb		-----
daymgr.bld,sysb,01,sysb	Dayfile Manager	
daymgr.lst,sysl,01,sysl	Listing of above .bld job	
daymgr.rel,sysb,01,sysb		-----
dcf.bld,sysb,01,sysb	Device Control Facility	
dcf.lst,sysl,01,sysl	Listing of above .bld job	
dcf.rel,sysb,01,sysb		-----
dmf.bld,sysb,01,sysb	Dayfile Management Facility	
dmf.lst,sysl,01,sysl	Listing of above .bld job	
dmf.rel,sysb,01,sysb		-----
ermgr.bld,sysb,01,sysb	Error Manager	
ermgr.lst,sysl,01,sysl	Listing of above .bld job	
ermgr.rel,sysb,01,sysb		-----
esrs.bld,sysb,01,sysb	Executive Service Requests	
esrs.lst,sysl,01,sysl	Listing of above .bld job	

esrs.rel,sysb,01,sysb	-----
evnmgr.bld,sysb,01,sysb	Event Manager
evnmgr.lst,sysl,01,sysl	Listing of above .bld job
evnmgr.rel,sysb,01,sysb	-----
fcf.bld,sysb,01,sysb	File Control Facility
fcf.lst,sysl,01,sysl	Listing of above .bld job
fcf.rel,sysb,01,sysb	-----
fddmgr.bld,sysb,01,sysb	Flexible Disk Manager
fddmgr.lst,sysl,01,sysl	Listing of above .bld job
fddmgr.rel,sysb,01,sysb	-----
filemgr.bld,sysb,01,sysb	File Manager
filemgr.lst,sysl,01,sysl	Listing of above .bld job
filemgr.rel,sysb,01,sysb	-----
icf.bld,sysb,01,sysb	Interactive Comm Facility
icf.lst,sysl,01,sysl	Listing of above .bld job
icf.rel,sysb,01,sysb	-----
intrcom.bld,sysb,01,sysb	InterCPU Communication
intrcom.lst,sysl,01,sysl	Listing of above .bld job
intrcom.rel,sysb,01,sysb	-----
ioits.bld,sysb,01,sysb	Interactive part of IOMGR
ioits.lst,sysl,01,sysl	Listing of above .bld job
ioits.rel,sysb,01,sysb	-----
iomgr.bld,sysb,01,sysb	Manager of device managers
iomgr.lst,sysl,01,sysl	Listing of above .bld job
iomgr.rel,sysb,01,sysb	-----
its.bld,sysb,01,sysb	ITS utility routines
its.lst,sysl,01,sysl	Listing of above .bld job
its.rel,sysb,01,sysb	-----
jldr.bld,sysb,01,sysb	Job Loader
jldr.lst,sysl,01,sysl	Listing of above .bld job
jldr.rel,sysb,01,sysb	-----
jmgr.bld,sysb,01,sysb	Job Manager
jmgr.lst,sysl,01,sysl	Listing of above .bld job
jmgr.rel,sysb,01,sysb	-----
lof.bld,sysb,01,sysb	Log-On Facility
lof.lst,sysl,01,sysl	Listing of above .bld job
lof.rel,sysb,01,sysb	-----
lowmem.bld,sysb,01,sysb	Resident Tables
lowmem.lst,sysl,01,sysl	Listing of above .bld job
lowmem.rel,sysb,01,sysb	-----
lptmgr.bld,sysb,01,sysb	Line Printer Manager
lptmgr.lst,sysl,01,sysl	Listing of above .bld job
lptmgr.rel,sysb,01,sysb	-----
mt05mgr.bld,sysb,01,sysb	Magnetic Tape Manager
mt05mgr.lst,sysl,01,sysl	Listing of above .bld job
mt05mgr.rel,sysb,01,sysb	-----
ocf.bld,sysb,01,sysb	Operator Control Facility
ocf.lst,sysl,01,sysl	Listing of above .bld job
ocf.rel,sysb,01,sysb	-----
opfmgr.bld,sysb,01,sysb	Connection to Cyber CRT
opfmgr.lst,sysl,01,sysl	Listing of above .bld job
opfmgr.rel,sysb,01,sysb	-----
pdump.bld,sysb,01,sysb	Panic Dump
pdump.lst,sysl,01,sysl	Listing of above .bld job
pdump.rel,sysb,01,sysb	-----
rbtnmgr.bld,sysb,01,sysb	200UT Pseudo Manager
rbtnmgr.lst,sysl,01,sysl	Listing of above .bld job
rbtnmgr.rel,sysb,01,sysb	-----
smdmgr.bld,sysb,01,sysb	Storage Module Drive Manager
smdmgr.lst,sysl,01,sysl	Listing of above .bld job

smdmgr.rel,sysb,01,sysb	Print Files, Read Cards
stdio.bld,sysb,01,sysb	Listing of above .bld job
stdio.lst,sysl,01,sysl	
stdio.rel,sysb,01,sysb	
sysbio.bld,sysb,01,sysb	System Blocker/Deblocker
sysbio.lst,sysl,01,sysl	Listing of above .bld job
sysbio.rel,sysb,01,sysb	
sysqs.bld,sysb,01,sysb	Manage I/O Queues
sysqs.lst,sysl,01,sysl	Listing of above .bld job
sysqs.rel,sysb,01,sysb	
systinit.bld,sysb,01,sysb	Initialize MPX/OS
systinit.lst,sysl,01,sysl	Listing of above .bld job
systinit.rel,sysb,01,sysb	
taskmgr.bld,sysb,01,sysb	Manage all Tasks
taskmgr.lst,sysl,01,sysl	Listing of above .bld job
taskmgr.rel,sysb,01,sysb	
uclamgr.bld,sysb,01,sysb	MPCLA Device Manager
uclamgr.lst,sysl,01,sysl	Listing of above .bld job
uclamgr.rel,sysb,01,sysb	
res.bld,sysb,01,sysb	Build a Resident from .rel's
res.lst,sysl,01,sysl	Listing of above .bld job
mpx-resident,mpxr,__,***	MPX/OS Resident Module
blkdeblk.bld,sysb,01,sysb	Build BLKDEBLK for Library
blkdeblk.lst,sysl,01,sysl	Listing of above .bld job
sys-bkdbk.rel,lbld,01,lbld	
taskmon.bld,sysb,01,sysb	Build TASKMON for Library
taskmon.lst,sysl,01,sysl	Listing of above .bld job
sys-tskmon.rel,lbld,01,lbld	
mpxboot.bld,sysb,01,sysb	Preliminary DS Interactions
mpxboot.lst,sysl,01,sysl	Listing of above .bld job
mpxboot.rel,sysb,01,sysb	
mpxboot.run,sysb,01,sysb	Put boot on system disk
mpxboot-run.lst,sysl,01,sysl	Listing of above .run job
System Disk	
install.bld,sysb,01,sysb	Program to make new Sys Disk
install.lst,sysl,01,sysl	Listing of above .bld job
install.rel,sysb,01,sysb	
install.run,sysb,01,sysb	Put INSTALL on Mag Tape
inst-run.lst,sysl,01,sysl	Listing of above .run job
Magnetic Tape	
dumpsys.bld,sysb,01,sysb	Initial disk load data
dumpsys.lst,sysl,01,sysl	Listing of above .bld job
Magnetic Tape	
dskutil.bld,sysb,01,sysb	Inspect/Change Disk program
dskutil.lst,sysl,01,sysl	Listing of above .bld job
dskutil.rel,sysb,01,sysb	
dskutil.run,sysb,01,sysb	Put DSKUTIL on Mag Tape
dskutil-run.lst,sysl,01,sysl	Listing of above .run job
Magnetic Tape	
listcom.bld,sysb,01,sysb	Lists all MPX/OS Common Decks
listcom.lst,sysl,01,sysl	Listing of above .bld job

fmpape.lst,sysl,01,sysl
Magnetic Tape

Listing of above .bid job

bid-plan.txt,sysb,01,sysb
bid-plan.run,sysb,01,sysb

Contains this text
Produce Product Build Doc

Integration instructions for next release:

1. None. Complete at PSR Level AB.

NOTES:

*1 This is the previous Oldpl. It was the "current" Oldpl for the previous PSR level. It normally does not appear on the Release Tapes.

STOP*ENDST*
*OPEN(10,DS.PL,SYSB,ZZ, ,R)
*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/13/84
 13:23:14

OLDPL AUDIT:		TOTAL	YANKED	ACTIVE	RUNNING
DECK	YANK\$\$\$	1	0	1	1
COMDECK	HISTORY	1112	0	1112	1113
COMDECK	SITE	82	0	82	1195
COMDECK	REG-0	26	0	26	1221
COMDECK	PGFEQU	13	0	13	1234
COMDECK	JCTEQU	95	0	95	1329
COMDECK	TCTEQU	152	0	152	1481
COMDECK	JMPEQU	22	0	22	1503
COMDECK	DISPCDS	11	0	11	1514
COMDECK	USTEQU	33	0	33	1547
COMDECK	HRWTYPS	37	0	37	1584
COMDECK	DEVLBL	29	0	29	1613
COMDECK	LBLFLE	71	0	71	1684
COMDECK	ESTEQU	41	0	41	1725
COMDECK	DETEQU	40	0	40	1765
COMDECK	MQFMEQU	10	0	10	1775
COMDECK	DMSEQU	40	0	40	1815
COMDECK	RETEQU	86	0	86	1901
COMDECK	LTEQU	131	0	131	2032
COMDECK	FDTEQU	43	0	43	2075
COMDECK	SGTEQU	21	0	21	2096
COMDECK	VNTEQU	31	0	31	2127
COMDECK	QPTEQU	65	0	65	2192
COMDECK	IDCMD5	37	0	37	2229
COMDECK	IDEQUS	22	0	22	2251
COMDECK	TSKMEQU	12	0	12	2263
COMDECK	MULTICPU	28	0	28	2291
COMDECK	OSPOOL	8	0	8	2299
COMDECK	RTWDEQU	7	0	7	2306
COMDECK	MACROS	16	0	16	2322
COMDECK	PITEQU	49	0	49	2371
COMDECK	RTTEQU	50	0	50	2421
COMDECK	TRTEQU	29	0	29	2450
COMDECK	UETEQU	181	0	181	2631
COMDECK	DISKID	221	0	221	2852
COMDECK	CRTID	129	0	129	2981
COMDECK	ITSEQU	63	0	63	3044
COMDECK	TERMCLS	52	0	52	3096
COMDECK	SQSEQU	145	0	145	3241
COMDECK	DAYEQU	24	0	24	3265
COMDECK	EVCEQU	15	0	15	3280
COMDECK	JPPEQU	178	0	178	3458
DECK	LISTCOM	50	0	50	3508
DECK	LSTHIST	2	0	2	3510
DECK	LOWMEM	2776	0	2776	6286
DECK	PDUMP	425	0	425	6711
DECK	ESRS	2069	0	2069	8780
DECK	IDMGR	2230	0	2230	11010
DECK	IDITS	2205	0	2205	13215
DECK	ERMGR	665	0	665	13880
DECK	EVNMGR	1260	0	1260	15140
DECK	INTRCOM	441	0	441	15581
DECK	TASKMGR	1492	0	1492	17073

DECK	DAYMGR	990	0	990	18063
DECK	DAYDMP	852	0	852	18915
DECK	SYSQS	2564	0	2564	21479
DECK	FILEMGR	2721	0	2721	24200
DECK	SYSBID	854	0	854	25054
DECK	STDID	722	0	722	25776
DECK	ITS	1726	0	1726	27502
DECK	ICF	2921	0	2921	30423
DECK	LOF	942	0	942	31365
DECK	OCF	3112	0	3112	34477
DECK	FCF	1004	0	1004	35481
DECK	DMF	767	0	767	36248
DECK	DCF	1299	0	1299	37547
DECK	BCF	628	0	628	38175
DECK	SMDMGR	1935	0	1935	40110
DECK	FDDMGR	812	0	812	40922
DECK	CRTMGR	660	0	660	41582
DECK	BCLAMGR	927	0	927	42509
DECK	UCLAMGR	1144	0	1144	43653
DECK	CRDMGR	680	0	680	44333
DECK	MT05MGR	787	0	787	45120
DECK	LPTMGR	431	0	431	45551
DECK	CCCMGR	1770	0	1770	47321
DECK	MQMGR	1636	0	1636	48957
DECK	RBTMGR	2653	0	2653	51610
DECK	SYSTINIT	1614	0	1549	53159
COMDECK	JMGRBDB	1180	0	1180	54339
DECK	LISTBDB	59	0	59	54398
DECK	JMGR	3243	0	3238	57636
DECK	JLDR	2206	0	2206	59842
DECK	OPFMGR	1007	0	1007	60849
DECK	CTT	363	0	363	61212
DECK	TAPEBOOT	133	0	133	61345
DECK	INSTALL	3349	0	3349	64694
DECK	MPXBOOT	880	0	880	65574
DECK	DSKUTIL	1651	0	1651	67225
DECK	TASKMON	33	0	33	67258
DECK	BLKDEBLK	1369	0	1369	68627

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED
LEV-AC	3	HISTORY
LEVAC001	119	HISTORY SYSTINIT
LEVAC002	21	HISTORY JMGR

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	
HISTORY	1094	LEVAC002 LEVAC001 LEV-AC
SITE	82	
REG-0	26	
PGFEQU	13	
JCTEQU	95	
TCTEQU	152	
JMPEQU	22	
DISPCDS	11	
USTEQU	33	
HRWTYPS	37	

DEVLBL	29
LBLFLE	71
ESTEQU	41
DETEQU	40
MOFMEQU	10
DMSEQU	40
RETEQU	86
LTEQU	131
FDTEQU	43
SGTEQU	21
VNTEQU	31
QPTEQU	65
IOCMDS	37
IDEQUS	22
TSKMEQU	12
MULTICPU	28
OSPOOL	8
RTWDEQU	7
MACROS	16
PITEQU	49
RTTEQU	50
TRTEQU	29
UETEQU	181
DISKIO	221
CRTIO	129
ITSEQU	63
TERMCLS	52
SQSEQU	145
DAYEQU	24
EVCEQU	15
JPPEQU	178
LISTCOM	50
LSTHIST	2
LOWMEM	728
PDUMP	425
ESRS	21
IOMGR	182
IOITS	157
ERMGR	665
EVNMGR	1260
INTRCOM	441
TASKMGR	1492
DAYMGR	990
DAYDMP	852
SYSQS	516
FILEMGR	673
SYSBIO	854
STDIO	722
ITS	1726
ICF	873
LOF	942
OCF	1064
FCF	1004
DMF	767
DCF	1299
BCF	628
SMDMGR	1935
FDDMGR	812
CRTMGR	660
BCLAMGR	927
UCLAMGR	1144
CRDMGR	680

MT05MGR	787	
LPTMGR	431	
CCCMGR	1770	
MQMGR	1636	
RBTMGR	605	
SYSTINIT	1565	LEVAC001
JMGRBDB	1180	
LISTBDB	59	
JMGR	1189	LEVAC002
JLDR	158	
OPFMGR	1007	
CTT	363	
TAPEBOOT	133	
INSTALL	1301	
MPXBOOT	880	
DSKUTIL	1651	
TASKMON	33	
BLKDEBLK	1369	

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK	DECKS CALLING THE COMMON DECK				
HISTORY	LSTHIST				
SITE	LISTCOM	LOWMEM	PDUMP	ESRS	IOMGR
	IOITS	ERMGR	EVNMGR	INTRCOM	TASKMGR
	DAYMGR	SYSQS	FILEMGR	ITS	ICF
	LOF	SYSTINIT	JMGR	JLDR	MPXBOOT
REG-O	LISTCOM	LOWMEM	ESRS	IOMGR	IOITS
	ERMGR	EVNMGR	INTRCOM	TASKMGR	SYSQS
PGFEQU	LISTCOM	LOWMEM	ESRS	IOMGR	IOITS
	EVNMGR	INTRCOM	TASKMGR	SYSQS	SYSTINIT
JCTEQU	LISTCOM	LOWMEM	ESRS	IOMGR	IOITS
	ERMGR	EVNMGR	INTRCOM	TASKMGR	DAYMGR
	DAYDMP	SYSQS	FILEMGR	DCF	SYSTINIT
TCTEQU	LISTCOM	LOWMEM	PDUMP	ESRS	IOMGR
	IOITS	ERMGR	EVNMGR	INTRCOM	TASKMGR
	DAYMGR	DAYDMP	SYSQS	FILEMGR	DCF
	DMF	MQMGR	RBTMGR	SYSTINIT	JMGR
	JLDR	OPFMGR			
JMPEQU	LISTCOM	SYSQS			
DISPCDS	LISTCOM	INTRCOM	SYSQS		
USTEQU	LISTCOM	IOMGR	IOITS	ERMGR	EVNMGR
	INTRCOM	SYSQS	FILEMGR	STDID	ITS
	ICF	DCF	FCF	DMF	DCF
	BCF	FDDMGR	CRTMGR	BCLAMGR	UCLAMGR
	CRDMGR	MT05MGR	LPTMGR	CCCMGR	MQMGR
	RBTMGR	OPFMGR			
HRWTYPS	LISTCOM	LOWMEM	ESRS	IOMGR	IOITS
	ERMGR	EVNMGR	INTRCOM	SYSQS	FILEMGR
	ITS	ICF	LOF	DCF	RBTMGR
	SYSTINIT	JMGR	JLDR	OPFMGR	
DEVLBL	LISTCOM	INTRCOM	FILEMGR	FCF	SYSTINIT
LBLFLE	LISTCOM	INTRCOM	FILEMGR	FCF	SYSTINIT
ESTEQU	LISTCOM	LOWMEM	PDUMP	ESRS	IOMGR
	IOITS	ERMGR	EVNMGR	INTRCOM	FILEMGR
	ITS	ICF	FCF	DCF	RBTMGR
	SYSTINIT				
DETEQU	LISTCOM	LOWMEM	IOMGR	IOITS	ERMGR
	EVNMGR	INTRCOM	FILEMGR	FDDMGR	CRTMGR
	BCLAMGR	UCLAMGR	CRDMGR	MT05MGR	LPTMGR
	CCCMGR	MQMGR	RBTMGR	SYSTINIT	OPFMGR

MQFMEQU	LISTCOM	MQMGR			
DMSEQU	LISTCOM	IOITS	RBTMGR		
RETEQU	LISTCOM	LOWMEM	IDMGR	IOITS	ERMGR
	EVNMGR	INTRCOM	TASKMGR	DAYDMP	FILEMGR
	FDDMGR	CRTMGR	BCLAMGR	UCLAMGR	CRDMGR
	MT05MGR	LPTMGR	CCCMGR	MQMGR	RBTMGR
	OPFMGR				
LTEQU	LISTCOM	LOWMEM	IDMGR	IOITS	ERMGR
	EVNMGR	INTRCOM	TASKMGR	DAYDMP	FILEMGR
	ICF	MQMGR	SYSTINIT		
FDTEQU	LISTCOM	LOWMEM	IDMGR	ERMGR	EVNMGR
	INTRCOM	DAYDMP	FILEMGR	FCF	SYSTINIT
SGTEQU	LISTCOM	LOWMEM	IDMGR	ERMGR	EVNMGR
	INTRCOM	FILEMGR	SYSTINIT		
VNTEQU	LISTCOM	LOWMEM	PDUMP	EVNMGR	TASKMGR
QPTEQU	LISTCOM	LOWMEM	SYSQS	STDIO	LOF
	DCF	BCF			
IOCMDS	LISTCOM	IDMGR	IOITS	ERMGR	EVNMGR
	INTRCOM	DCF	FDDMGR	CRTMGR	BCLAMGR
	UCLAMGR	CRDMGR	MT05MGR	LPTMGR	CCCMGR
	MQMGR	RBTMGR	OPFMGR		
IOEQU	LISTCOM	LOWMEM	IDMGR	EVNMGR	INTRCOM
	TASKMGR	DAYMGR	DAYDMP	SYSQS	FILEMGR
	STDIO	ITS	ICF	LOF	FCF
	DCF	BCF	RBTMGR	SYSTINIT	
TSKMEQU	LISTCOM	INTRCOM	TASKMGR		
MULTICPU	LISTCOM	LOWMEM	ESRS	INTRCOM	TASKMGR
	SYSQS	SYSTINIT			
OSPDDL	LISTCOM	LOWMEM	INTRCOM	SYSTINIT	
RTWDEQU	LISTCOM	ESRS	INTRCOM	TASKMGR	SYSQS
	SYSTINIT				
MACROS	LISTCOM	LOWMEM	ESRS	DAYMGR	SYSTINIT
PITEQU	LISTCOM	IOITS	ERMGR	ITS	ICF
	CRTMGR	BCLAMGR	UCLAMGR	RBTMGR	SYSTINIT
	OPFMGR				
RTTEQU	LISTCOM	IOITS	ERMGR	FILEMGR	ITS
	ICF	LOF	OCF	DMF	DCF
	RBTMGR	SYSTINIT			
TRTEQU	LISTCOM	FILEMGR	ICF		
UETEQU	LISTCOM	IDMGR	IOITS	ERMGR	DAYMGR
	FILEMGR	ITS	ICF	LOF	OCF
	FCF	DMF	DCF	BCF	
DISKIO	LISTCOM	SYSTINIT	MPXBOOT		
CRTIO	LISTCOM	SYSTINIT	MPXBOOT		
ITSEQU	LISTCOM	STDIO	ITS	ICF	LOF
	OCF	FCF	DMF	DCF	BCF
TERMCLS	LISTCOM	ITS	ICF	LOF	RBTMGR
SQSEQU	LISTCOM	SYSQS	STDIO	ICF	OCF
	BCF				
DAYEQU	LISTCOM	TASKMGR	DAYMGR	DAYDMP	OCF
	DMF				
EVCEQU	LISTCOM	LOWMEM	SYSQS	STDIO	OCF
	BCF				
JPPEQU	LISTCOM	ESRS	TASKMGR	SYSQS	LISTBDB
	JMGR	JLDR			
JMGRBDB	LISTBDB	JMGR	JLDR		

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK

COMMON DECKS CALLED BY THE DECK

LISTCOM

SITE

REG-0

PGFEQU

JCTEQU

TCTEQU

	JMPEQU	DISPCDS	USTEQU	HRWTYPS	DEVLBL
	LBLFLE	ESTEQU	DETEQU	MQFMEQU	DMSEQU
	RETEQU	LTEQU	FDTEQU	SGTEQU	VNTEQU
	OPTEQU	IDCMDS	IOEQU	TSKMEQU	MULTICPU
	OSPOOL	RTWDEQU	MACRDS	PITEQU	RTTEQU
	TRTEQU	UETEQU	DISKIO	CRTIO	ITSEQU
	TERMCLS	SOSEQU	DAYEQU	EVCEQU	JPPEQU
LSTHIST	HISTORY				
LOWMEM	SITE	MACROS	REG-0	PGFEQU	MULTICPU
	OSPOOL	IOEQU	HRWTYPS	ESTEQU	DETEQU
	LTEQU	FDTEQU	SGTEQU	RETEQU	JCTEQU
	TCTEQU	VNTEQU	EVCEQU	QTEQU	
PDUMP	SITE	TCTEQU	ESTEQU	VNTEQU	
ESRS	SITE	REG-0	PGFEQU	MACROS	JCTEQU
	TCTEQU	JPPEQU	ESTEQU	RTWDEQU	HRWTYPS
	MULTICPU				
IOMGR	SITE	REG-0	PGFEQU	JCTEQU	TCTEQU
	USTEQU	HRWTYPS	ESTEQU	DETEQU	RETEQU
	LTEQU	FDTEQU	SGTEQU	UETEQU	IDCMDS
	IOEQU				
IOITS	SITE	REG-0	PGFEQU	JCTEQU	TCTEQU
	USTEQU	HRWTYPS	ESTEQU	DETEQU	DMSEQU
	RETEQU	LTEQU	UETEQU	RTTEQU	PITEQU
	IDCMDS				
ERMGR	SITE	REG-0	JCTEQU	TCTEQU	USTEQU
	HRWTYPS	ESTEQU	DETEQU	RETEQU	LTEQU
	FDTEQU	SGTEQU	UETEQU	RTTEQU	PITEQU
	IDCMDS				
EVNMGR	SITE	REG-0	PGFEQU	JCTEQU	TCTEQU
	USTEQU	HRWTYPS	ESTEQU	DETEQU	RETEQU
	LTEQU	FDTEQU	SGTEQU	VNTEQU	IDCMDS
	IOEQU				
INTRCOM	SITE	REG-0	PGFEQU	JCTEQU	TCTEQU
	DISPCDS	USTEQU	HRWTYPS	DEVLBL	LBLFLE
	ESTEQU	DETEQU	RETEQU	LTEQU	FDTEQU
	SGTEQU	IDCMDS	IOEQU	TSKMEQU	MULTICPU
	OSPOOL	RTWDEQU			
TASKMGR	SITE	REG-0	PGFEQU	JCTEQU	TCTEQU
	JPPEQU	LTEQU	RETEQU	VNTEQU	DAYEQU
	TSKMEQU	MULTICPU	RTWDEQU	IOEQU	
DAYMGR	SITE	IOEQU	JCTEQU	TCTEQU	UETEQU
	DAYEQU	MACRDS			
DAYDMP	IOEQU	JCTEQU	TCTEQU	FDTEQU	LTEQU
	RETEQU	DAYEQU			
SYSQS	SITE	REG-0	PGFEQU	MULTICPU	RTWDEQU
	JCTEQU	TCTEQU	SOSEQU	JMPEQU	JPPEQU
	EVCEQU	QTEQU	IOEQU	HRWTYPS	USTEQU
	DISPCDS				
FILEMGR	SITE	JCTEQU	TCTEQU	USTEQU	HRWTYPS
	DEVLBL	LBLFLE	ESTEQU	DETEQU	RETEQU
	LTEQU	FDTEQU	SGTEQU	UETEQU	TRTEQU
	RTTEQU	IOEQU			
STDID	IOEQU	SOSEQU	QTEQU	USTEQU	EVCEQU
	ITSEQU				
ITS	SITE	TERMCLS	RTTEQU	PITEQU	ESTEQU
	UETEQU	ITSEQU	IOEQU	USTEQU	HRWTYPS
ICF	SITE	PITEQU	RTTEQU	UETEQU	TRTEQU
	ESTEQU	LTEQU	HRWTYPS	TERMCLS	IOEQU
	USTEQU	SOSEQU	ITSEQU		
LOF	SITE	TERMCLS	RTTEQU	UETEQU	ITSEQU
	QTEQU	HRWTYPS	IOEQU		
OCF	JCTEQU	TCTEQU	UETEQU	ITSEQU	USTEQU

	RTTEQU	EVCEQU	SOSEQU	DAYEQU	
FCF	ITSEQU	ESTEQU	LBLFLE	DEVLBL	FDTEQU
	UETEQU	IOEQU	USTEQU		
DMF	USTEQU	TCTEQU	RTTEQU	UETEQU	ITSEQU
	DAYEQU				
DCF	IOEQU	HRWTYPS	IOCMDS	USTEQU	ITSEQU
	UETEQU	QPTEQU	RTTEQU	ESTEQU	
BCF	IOEQU	USTEQU	EVCEQU	UETEQU	ITSEQU
	SOSEQU	QPTEQU			
FDDMGR	DETEQU	RETEQU	USTEQU	IOCMDS	
CRTMGR	DETEQU	RETEQU	PITEQU	USTEQU	IOCMDS
BCLAMGR	DETEQU	RETEQU	PITEQU	USTEQU	IOCMDS
UCLAMGR	DETEQU	RETEQU	PITEQU	USTEQU	IOCMDS
CRDMGR	DETEQU	RETEQU	USTEQU	IOCMDS	
MTOSMGR	DETEQU	RETEQU	USTEQU	IOCMDS	
LPTMGR	DETEQU	RETEQU	USTEQU	IOCMDS	
CCCMGR	DETEQU	RETEQU	USTEQU	IOCMDS	
MQMGR	DETEQU	MQFMEQU	RETEQU	TCTEQU	USTEQU
	IOCMDS	LTEQU			
RBTMGR	ESTEQU	DETEQU	DMSEQU	RETEQU	PITEQU
	RTTEQU	USTEQU	TCTEQU	IOCMDS	IOEQU
	HRWTYPS	TERMCLS			
SYSTINIT	SITE	PGFEQU	MACRDS	MULTICPU	JCTEQU
	TCTEQU	ESTEQU	DETEQU	LTEQU	FDTEQU
	SGTEQU	PITEQU	RTTEQU	DEVLBL	LBLFLE
	IOEQU	HRWTYPS	OSPOOL	RTWDEQU	DISKID
	CRTIO				
LISTBDB	JPPEQU	JMGRBDB			
JMGR	SITE	TCTEQU	HRWTYPS	JPPEQU	JMGRBDB
JLDR	SITE	TCTEQU	HRWTYPS	JPPEQU	JMGRBDB
OPFMGR	DETEQU	RETEQU	TCTEQU	PITEQU	USTEQU
	IOCMDS	HRWTYPS			
MPXBOOT	SITE	DISKID	CRTIO		

NULL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

XREFUP FINISHED.

*CLOSE(10)

*LISTF

```

*JOB(ID=OS-PL-SPS.BLD)
*SCHED(CM=9,TL=9999,PL=1000,SCR=40)
#
# This job builds a higher PSR Level release Oldpl from one of
# a given level and the appropriate PSR code.
#
# PSR code is obtained from the Systems Technology Division
# (of CDC) PSR Summaries.
#
-----
# This portion of the job is temporary. It resequences the Level AB
# OLDPL and prepares for AC generation.
#
*OPEN(5,OS.PL,SYS0,AB,SYS0,R)
*release(os-pl.txt,sys0,AC,sys0,0)
*allocate(os-pl.txt,sys0,AC,sys0,480,2200)
*open(7,os-pl.txt,sys0,AC,sys0)
*release(os.pl,sys0,TZ,sys0,0)
*allocate(os.pl,sys0,TZ,sys0,480,2200)
*open(6,os.pl,sys0,TZ,sys0)
*UPDATE(F,P=5,N=6,*=/,O=A,S=7)
/FINIS
*CLOSE(6)
*release(os.pl,sys0,TZ,sys0,0)
*REWIND(7)
*release(os.pl,sys0,TZ,sys0,0)
*allocate(os.pl,sys0,TZ,sys0,480,2200)
*open(10,os.pl,sys0,TZ,sys0)
*UPDATE(F,I=7,N=10,*=/,O=A)
*CLOSE(7)
*REWIND(10)
#
-----
*RELEASE(OS.PL,SYS0,AC,SYS0)
#----- *OPEN(10,OS.PL,SYS0,AB,SYS0,R)
*UPDATE(P=10,N=20,O=A)
// PLACE PSR CODE AFTER THIS LINE.
/IDENT LEV-AC
/INSERT HISTORY.3
LEV-AC 08 AUG 84 Fariss, G. B.
THIS POINT DIVIDES LEVEL AC FROM HIGHER LEVELS.

/COMPILE HISTORY
/IDENT LEVAC001
/INSERT HISTORY.3
LEVAC001 SYSTINIT 13 Aug 84 Fariss, G. B.
This mod changes the manner in which the machine identifier
is entered. One can now type a single letter to specify the
machine being used. Also, the 8-character IDs have been changed.

/D SYSTINIT.702,705
** RMFIO Request Mainframe Identifier
#
# This section requests the Mainframe Identifier as a single
# character which corresponds to a table entry. If invalid
# input is encountered, the entire table is displayed. A CR
# entry defaults to the first table entry.
/D SYSTINIT.726,766
LDD,RC MFIDT+1 Default to "A" entry

```

LDC,RA	RESAREA	
FSK,NE	CRTETX,RA	If not default (CR-only)
UJP	RMF5	Go use default (same as "A" entry)
LDC,RA	RESAREA+1	
FSK,EO	CRTETX,RA	If only 1 character entered
UJP	RMF6	Invalid entry
LDC,RA	RESAREA	
FSK,LT	\$60,RA	If not lower-case
LDI,RA	-\$20,RA	Convert to upper
LDI,RA	-'A',RA	A=0
MPI,RA	4,RA	
FSK,GE	0,RA	If in or above valid range
UJP	RMF6	Invalid entry
FSK,LE	MFIDTE,RA	If in valid range
UJP	RMF6	Invalid entry
LDD,RC	MFIDT+1,RA	Get the machine id

/I SYSTINIT.770

RMF6	SPACE	1	
RMF6	BSS	0	
	LDCA,RC	MFIBTM	Display ID table if invalid entry
	LDI,RD	MFIDTML	
	UJP	RMF1	Go ask again

MF SPACE 1
 /D SYSTINIT.782,785

* The order of entries in the table may be re-arranged
 * to suit the particular site. i.e. a single-machine
 * site would want it's identifier as A= to allow a CR
 * default entry.

* The table at level AC (8/84) lists all the MP-32s that
 * have been built. (seven)

/D SYSTINIT.787,801

MFIDTM	TEXTC	,Enter the letter that corresponds to your Machine ID:	
	GEN,C	\$0D,\$0A	
MFIDT	BSS	0	
	TEXT	16, A=YODA	FNOC Machine A
	TEXT	16, B=E.T.	FNOC Machine B
	TEXT	16, C=STANLEY	Former STANLEY machine
	TEXT	12, D=OLIVER	LMSC in Austin (8/84)
	GEN,C	\$0D,\$0A,00,00	
	TEXT	16, E=SSDF32A	Prototype (19" rack)
	TEXT	16, F=MPLS32A	Former ISD, Minneapolis
	TEXT	16, G=LJL32A	Former La Jolla check-out machine
	TEXT	12, H=.NOID.	

/D SYSTINIT.1418

MFMSG TEXTC ,Which Machine?

/COMPILE SYSTINIT

/IDENT LEVAC002

/INSERT HISTORY.3

LEVAC002 SYSTINIT 13 Aug 84 Fariss, G. B.

This mod changes "VERSION" to "MACHINE ID" on the header produced on the list output of each job. The order in which Resident, Library, and Machine ID are displayed is also changed.

At some later time, one might want to change the info passed to JMGR from the OS so that 2 words of Machine ID are passed. Currently, only 4 characters are passed and the remaining 4 characters are blank filled by JMGR.

/D JMGR.2281

LD,R1

='

Change JCIVNUM to 2 wds later...

STD,R0

OUTREW+INFO2MID

/D JMGR.3174,3175

INFO2 TEXT

40, RESIDENT EDITION = XX LIBRARY EDITION

TEXT

28,= XX MACHINE ID = XXXXXXXX

/D JMGR.3178,3179

INFO2LED EQU

21

INFO2MID EQU

15

/COMPILE JMGR

/FINIS

*SAVEPF(20,DS.PL,SYSO,AC,SYSO)

*SAVEPF(62,DS-PL-SPS.LST,SYSL,01,SYSL)

*EOJ

*JOB(ID=OS-PL-LOC.BLD)

*SCHED(CM=9,TL=9999,PL=10000,SCR=40)

#

This job adds local-site modifications to the standard Oldpl
and builds the final Oldpl (always Edition ZZ).

#

*RELEASE(OS.PL,SYSB,ZZ,SYSB)

*OPEN(10,OS.PL,SYS0,AC,SYS0,R) # Change the edition as appropriate

*UPDATE(P=10,N=20,O=A)

// PLACE LOCAL-MOD CODE AFTER THIS LINE.

/FINIS

*SAVEPF(20,OS.PL,SYSB,ZZ,SYSB)

*SAVEPF(62,OS-PL-LOC.LST,SYSL,01,SYSL)

*EOJ

```
*JOB(ID=BCF)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*/)
/COMPILE BCF
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,BCF.REL,SYSB,01,SYSB)
*SAVEPF(62,BCF.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=BCLAMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*=/)
/COMPILE BCLAMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,BCLAMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,BCLAMGR.LST,SYSL,01,SYSL)
*EOJ
```



```
*JOB(ID=CCCMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=200)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DDATE(P=10,C,Q,*=/)
/COMPILE CCCMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,CCCMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,CCCMGR.LST,SYSL,01,SYSL)
*EDJ
```

```
*JOB(ID=CRDMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS,PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*/)
/COMPILE CRDMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,CRDMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,CRDMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=CRTMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*/)
/COMPILE CRTMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,CRTMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,CRTMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=CTT)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*=/)
/COMPILE CTT
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,CTT.REL,SYSB,01,SYSB)
*SAVEPF(62,CTT.LST,SYSL,01,SYSL)
*EDJ
```

```
*JOB(ID=DAYDMP)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,0,*=/)
/COMPILE DAYDMP
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,DAYDMP.REL,SYSB,01,SYSB)
*SAVEPF(62,DAYDMP.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=DAYMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*MODATE(P=10,C,Q,*=/)
/COMPILE DAYMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,DAYMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,DAYMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=DCF)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*/)
/COMPILE DCF
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,DCF.REL,SYSB,01,SYSB)
*SAVEPF(62,DCF.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=DMF)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,0,*=/)
/COMPILE DMF
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,DMF.REL,SYSB,01,SYSB)
*SAVEPF(62,DMF.LST,SYSL,01,SYSL)
*EOJ
```



```
*JOB(ID=ERMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*=/)
/COMPILE ERMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,ERMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,ERMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=ESRS)
*SCHED(CM=9,PL=4000,TL=99999,SCR=40,PL=60000)
*OPEN(10,OS.P.,SYSB,ZZ,SYSB,R)
*MODATE(P=10,C,Q,*=/)
/COMPILE ESRS
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,ESRS.REL,SYSB,01,SYSB)
*SAVEPF(62,ESRS.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=EVNMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.P.,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,0,*=/)
/COMPILE EVNMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,EVNMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,EVNMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=FCF)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,0,*=/)
/COMPILE FCF
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,FCF.REL,SYSB,01,SYSB)
*SAVEPF(62,FCF.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=FDDMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS,PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*=/)
/COMPILE FDDMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,FDDMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,FDDMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=FILEMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/COMPILE FILEMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,FILEMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,FILEMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=ICF)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS.PL,SYSB,ZZ,SYSB,R)
*DDATE(P=10,C,Q,*=/)
/COMPILE ICF
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,ICF.REL,SYSB,01,SYSB)
*SAVEPF(62,ICF.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=INTRCOM)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS,PL,SYSB,ZZ,SYSB,R)
*DDATE(P=10,C,Q,*=/)
/COMPILE INTRCOM
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,INTRCOM.REL,SYSB,01,SYSB)
*SAVEPF(62,INTRCOM.LST,SYSL,01,SYSL)
*EOJ
```



```
*JOB(ID=IOITS)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS.PL,SYSB,ZZ,SYSB,R)
*DDATE(P=10,C,0,*=/)
/COMPILE IOITS
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,IOITS.REL,SYSB,01,SYSB)
*SAVEPF(62,IOITS.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=IDMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/MPLE IDMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,IDMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,IDMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=ITS)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/MPLE ITS
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,ITS.REL,SYSB,01,SYSB)
*SAVEPF(62,ITS.LST,SYSL,01,SYSL)
*EDJ
```

```
#JOB(ID=JLDR)
#SCHED(CM=9,PL=7000,TL=99999,SCR=50)
#OPEN(10,OS,PL,SYSB,ZZ,SYSB,R)
#UPDATE(P=10,C,Q,*=/)
//MPLE JLDR
//FINIS
#CLOSE(10)
#REWIND(56)
#CMP(I=56,L,X=20,R=2,C)
#SAVEPF(20,JLDR.REL,SYSB,01,SYSB)
#SAVEPF(62,JLDR.LST,SYSL,01,SYSL)
#EOJ
```

```
*JOB(ID=JMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=200)
*OPEN(10,DS,PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/COMPILE JMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,JMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,JMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=LOF)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS,PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,0,*=/)
)MPLE LOF
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,LOF.REL,SYSB,01,SYSB)
*SAVEPF(62,LOF.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=LOWMEM)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS,PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/COMPILE LOWMEM
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,LOWMEM.REL,SYSB,01,SYSB)
*SAVEPF(62,LOWMEM.LST,SYSL,01,SYSL)
*EOJ
```

```
#JOB(ID=LPTMGR)
#SCHED(CM=9,PL=15000,TL=99999,SCR=40)
#OPEN(10,OS,PL,SYSB,ZZ,SYSB,R)
#UPDATE(P=10,C,Q,*/)
/MPLE LPTMGR
/FINIS
#CLOSE(10)
#REWIND(56)
#CMP(I=56,L,X=20,R=2,C)
#SAVEPF(20,LPTMGR.REL,SYSB,01,SYSB)
#SAVEPF(62,LPTMGR.LST,SYSL,01,SYSL)
#EOJ
```



```
*JOB(ID=MT05MGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*=/)
/COMPILE MT05MGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,MT05MGR.REL,SYSB,01,SYSB)
*SAVEPF(62,MT05MGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=DCF)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
//COMPILE DCF
//FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,DCF.REL,SYSB,01,SYSB)
*SAVEPF(62,DCF.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=OPFMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*MODATE(P=10,C,Q,*=/)
/COMPILE OPFMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,OPFMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,OPFMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=PDUMP)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*/)
/MPLE PDUMP
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,PDUMP.REL,SYSB,01,SYSB)
*SAVEPF(62,PDUMP.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=RBTMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/MPILE RBTMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,RBTMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,RBTMGR.LST,SYSL,01,SYSL)
*EOJ
```

```
#JOB(ID=SMDMGR)
#SCHED(CM=9,PL=15000,TL=99999,SCR=40)
#OPEN(10,GS,PL,SYSB,ZZ,SYSB,R)
#UPDATE(P=10,C,Q,*=/)
/MPILE SMDMGR
/FINIS
#CLOSE(10)
#REWIND(56)
#CMP(I=56,L,X=20,R=2,C)
#SAVEPF(20,SMDMGR.REL,SYSB,01,SYSB)
#SAVEPF(62,SMDMGR.LST,SYSL,01,SYSL)
#EOJ
```

```
*JOB(ID=STDIO)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/COMPILE STDIO
/FINIS
*CLOSE(10)
*REWIND(56)
# STDIO ASSEMBLES WITH 1 ERROR AT LEVEL AB. "FOCFV" AND "CDF" ARE
# UNDEFINED. THE ERROR OCCURS IN COMMON DECK ITSEQU. THIS ERROR HAS
# NO EFFECT ON THE OPERATION OF STDIO.
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,STDIO.REL,SYSB,01,SYSB)
*SAVEPF(62,STDIO.LST,SYSL,01,SYSL)
*EQJ
```

```
*JOB(ID=SYSBIO)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/MPLE SYSBIO
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,SYSBIO.REL,SYSB,01,SYSB)
*SAVEPF(62,SYSBIO.LST,SYSL,01,SYSL)
*EOJ
```



```
*JOB(ID=SYSQS)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS,PL,SYSB,ZZ,SYSB,R)
*MODATE(P=10,C,Q,*=/)
/COMPILE SYSQS
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,SYSQS.REL,SYSB,01,SYSB)
*SAVEPF(62,SYSQS.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=SYSTINIT)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
*MODATE(P=10,C,Q,*=/)
/COMPILE SYSTINIT
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,SYSTINIT.REL,SYSB,01,SYSB)
*SAVEPF(62,SYSTINIT.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=TASKMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS,PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*/)
/COMPILE TASKMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,TASKMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,TASKMGR.LST,SYSL,01,SYSL)
*EDJ
```

```
*JOB(ID=UCLAMGR)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,DS,PL,SYSB,ZZ,SYSB,R)
*DATE(P=10,C,Q,*=/)
/COMPILE UCLAMGR
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,UCLAMGR.REL,SYSB,01,SYSB)
*SAVEPF(62,UCLAMGR.LST,SYSL,01,SYSL)
*EQJ
```

```
*JOB(ID=RES.BLD)
*SCHED(CM=17,PL=2000,TL=99999,SCR=100)
*OPEN(10,LOWMEM.REL,SYSB,01,SYSB,R)
*OPEN(11,PDUMP.REL,SYSB,01,SYSB,R)
*OPEN(12,ESRS.REL,SYSB,01,SYSB,R)
*OPEN(13,IOMGR.REL,SYSB,01,SYSB,R)
*OPEN(14,IOITS.REL,SYSB,01,SYSB,R)
*OPEN(15,ERMGR.REL,SYSB,01,SYSB,R)
*OPEN(16,EVMGR.REL,SYSB,01,SYSB,R)
*OPEN(17,INTRCOM.REL,SYSB,01,SYSB,R)
*OPEN(18,TASKMGR.REL,SYSB,01,SYSB,R)
*OPEN(19,DAYMGR.REL,SYSB,01,SYSB,R)
*OPEN(19,SYSQS.REL,SYSB,01,SYSB,R)
*OPEN(20,FILEMGR.REL,SYSB,01,SYSB,R)
*OPEN(21,SYSBIO.REL,SYSB,01,SYSB,R)
*OPEN(38,STDIO.REL,SYSB,01,SYSB,R)
*OPEN(22,ITS.REL,SYSB,01,SYSB,R)
*OPEN(23,ICF.REL,SYSB,01,SYSB,R)
*OPEN(24,LOF.REL,SYSB,01,SYSB,R)
*OPEN(25,OCF.REL,SYSB,01,SYSB,R)
*OPEN(26,FCF.REL,SYSB,01,SYSB,R)
*OPEN(27,DMF.REL,SYSB,01,SYSB,R)
*OPEN(28,DCF.REL,SYSB,01,SYSB,R)
*OPEN(29,BCF.REL,SYSB,01,SYSB,R)
*OPEN(30,SMDMGR.REL,SYSB,01,SYSB,R)
*OPEN(31,FDDMGR.REL,SYSB,01,SYSB,R)
*OPEN(32,CRTMGR.REL,SYSB,01,SYSB,R)
*OPEN(33,BCLAMGR.REL,SYSB,01,SYSB,R)
*OPEN(34,UCLAMGR.REL,SYSB,01,SYSB,R)
*OPEN(35,CRDMGR.REL,SYSB,01,SYSB,R)
*OPEN(36,MTOSMGR.REL,SYSB,01,SYSB,R)
*OPEN(37,LPTMGR.REL,SYSB,01,SYSB,R)
*OPEN(40,RBTMGR.REL,SYSB,01,SYSB,R)
*OPEN(41,DAYDMP.REL,SYSB,01,SYSB,R)
*OPEN(42,CCCMGR.REL,SYSB,01,SYSB,R)
*OPEN(44,OPFMGR.REL,SYSB,01,SYSB,R)
*OPEN(45,CTT.REL,SYSB,01,SYSB,R)
*OPEN(46,SYSTINIT.REL,SYSB,01,SYSB,R)
*OPEN(47,JLDR.REL,SYSB,01,SYSB,R)
*OPEN(48,JMGR.REL,SYSB,01,SYSB,R)
*RELEASE(MPX-RESIDENT,MPXR,AC,****,0)
*ALLOCATE(MPX-RESIDENT,MPXR,AC,****,1,800,NS,,0,5,SYSTEM01)
*OPEN(01,MPX-RESIDENT,MPXR,AC,****,W)
*PRELIB
*MPX(NMPX=01)
*ALT(ALT=10)
*ALT(ALT=11)
*ALT(ALT=12)
*ALT(ALT=13)
*ALT(ALT=14)
*ALT(ALT=15)
*ALT(ALT=16)
*ALT(ALT=17)
*ALT(ALT=18)
*ALT(ALT=39)
*ALT(ALT=41)
*ALT(ALT=19)
*ALT(ALT=20)
```

*ALT(ALT=21)
*ALT(ALT=38)
*ALT(ALT=22)
*ALT(ALT=23)
*ALT(ALT=24)
*ALT(ALT=25)
*ALT(ALT=26)
*ALT(ALT=27)
*ALT(ALT=28)
*ALT(ALT=29)
*ALT(ALT=30)
*ALT(ALT=31)
*ALT(ALT=32)
*ALT(ALT=33)
*ALT(ALT=34)
*ALT(ALT=35)
*ALT(ALT=36)
*ALT(ALT=37)
*ALT(ALT=42)
*ALT(ALT=40)
*ALT(ALT=44)
*ALT(ALT=45)
*ALT(ALT=46)
*JLDR
*ALT(ALT=47)
*JMTR
*ALT(ALT=48)
*ENDPLIB
*CLOSE(01)
*RELEASE(MPX-RESIDENT,MPXR,AC,****,R)
*SAVEPF(62,RES.LST,SYSL,01,SYSL)
*EOJ

```
#JOB(ID=BLKDEBLK.BLD)
#SCHED(CM=10,PL=60000,TL=99999,SCR=40)
#
# This job builds the I/O Blocking and Deblocking routines BLKDEBLK.
#
#OPEN(1,OS.PL,SYSB,ZZ,SYSB,R)
#UPDATE(0,P=1,*=/,C=2)
/COMPILE BLKDEBLK
/FINIS
#REWIND(2)
#CMP(I=2,X=3,C,L)
#SAVEPF(3,SYSB-KDBK.REL,LBLD,01,LBLD)
#SAVEPF(62,BLKDEBLK.LST,SYSL,01,SYSL)
#EOJ
```

```
*JOB(ID=TASKMON.BLD)
*SCHED(CM=10,PL=60000,TL=99999,SCR=40)
#
# This job builds the Task initialization/termination routine TASKMON.
#
*OPEN(1,OS.PL,SYSB,ZZ,SYSB,R)
*UPDATE(Q,P=1,*=/,C=2)
/COMPILE TASKMON
/FINIS
*REWIND(2)
*CMP(I=2,X=3,C,L)
*SAVEPF(3,SYS-TSKMON.REL,LBLD,01,LBLD)
*SAVEPF(62,TASKMON.LST,SYSL,01,SYSL)
*EOJ
```



```
#JOB(ID=BOOT,BLD)
#SCHED(CM=9,PL=15000,TL=99999,SCR=40)
#OPEN(10,OS.PL,SYSB,ZZ,SYSB,R)
#DATE(P=10,C,Q,*=/)
/COMPILE MPXBOOT
/FINIS
#CLOSE(10)
#REWIND(56)
#CMP(I=56,L,X=20,R=2,C)
#SAVEPF(20,MPXBOOT.REL,SYSB,01,SYSB)
#SAVEPF(62,MPXBOOT.LST,SYSL,01,SYSL)
#EOJ
```

```
*JOB(ID=MPXBOOT.RUN)          ***  BOOT TO DISK  ***
*SCHED(CM=12,PL=1000,SCR=10,TL=99999)
*OPEN(10,MPXBOOT.REL,SYSB,01,SYSB,R)
*DELIB
*BOOT(FWA=F000)
*ALT(ALT=10)
*ENDPLIB
*SAVEPF(62,MPXBT-RUN.LST,SYSL,01,SYSL)
*EOJ
```

```
#JOB(ID=INSTALL.BLD)
#SCHED(CM=9,SCR=40,PL=15000,TL=99999)
#OPEN(10,DS,PL,SYSB,ZZ,SYSB,R)
#DATE(P=10,C,Q,*/)
/COMPILE INSTALL
/FINIS
#REWIND(56)
#CMP(I=56,L,X=20,R=2,C)
#SAVEPF(20,install.rel,sysb,01,sysb)
#SAVEPF(62,INSTALL.LST,SYSL,01,SYSL)
#EOJ
```

```
*JOB(ID=INSTALL.RUN)
*SCHED(CM=9,SCR=40,PL=15000,TL=99999,MT=1)
#
# This job creates an INSTALL tape, to be read by the TAPEBOOT
# portion of the emulator microcode.
#
*OPEN(20,install.rel,sysb,01,sysb,r)
*EQUIP(35=MT)
*PRELIB
*ABS(NABS=35)
*ORIGIN(ID=INSTALL,FWA=C000)
*ALT(ALT=20)
*ENDPLIB
*SAVEPF(62,INST-RUN.LST,SYSL,01,SYSL)
*EOJ
```

*JOB(ID=DUMPSYS,BLD)
*SCHED(CM=9,TL=99999,PL=1000,MT=1)

This job builds a tape for use with the INSTALL program when
initializing a new system disk.

Note: Prelib creates a very short first (header) record on the
tape. This record is shorter than "noise size" and when
it is read in by the tape driver (MT05MGR) it is seen as an
irrecoverable tape error.

In order to verify the tape, make the following temporary
patch to MT05MGR:

Replace the 2nd entry in the ALAMSK table with
\$FE4D

making the first word \$1241FE4D instead of \$1241FF4D

This causes the driver to ignore short-record errors.

*EQUIP(10=MT)
*OPEN(20,MPX-RESIDENT,MPXR,AC,***,R)
*PRELIB
*DUMPSYS(NSYS=10,DMPX=20,DLIB=58,MICR,BOOT,ID=MPXV3LAC)
*ENDPLIB
*SAVEPF(62,DUMPSYS.LST,SYSL,01,SYSL)
*EOJ

```
*JOB(I0=DSKUTIL)
*SCHED(CM=9,SCR=40,PL=15000,TL=99999)
*OPEN(10,DS.PL,SYSB,ZZ,SYSB,R)
*MODATE(P=10,C,Q,*/)
/COMPILE DSKUTIL
/FINIS
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(20,DSKUTIL.REL,SYSB,01,SYSB)
*SAVEPF(62,DSKUTIL.LST,SYSL,01,SYSL)
*EDJ
```

```
*JOB(ID=DSKUTIL.RUN)
*SCHED(CM=9,SCR=40,PL=15000,TL=99999,MT=1)
#
# This job places the DSKUTIL program on magnetic tape for
# the TAPEBOOT microcode to read (instead of INSTALL).
#
*OPEN(20,DSKUTIL.REL,SYSB,01,SYSB,R)
*EQUIP(35=MT)
*PRELIB
*ABS(NABS=35)
*ORIGIN(ID=INSTALL,FWA=C000)
*ALT(ALT=20)
*ENDPLIB
*UNLOAD(35)
*SAVEPF(62,DSKUTL-RUN.LST,SYSL,01,SYSL)
*EOJ
```

```
*JOB(ID=LISTCOM)
*SCHED(CM=9,PL=15000,TL=99999,SCR=40)
*OPEN(10,OS,PL,SYSB,ZZ,SYSB,R)
*UPDATE(P=10,C,Q,*=/)
/COMPILE LISTCOM
/FINIS
*CLOSE(10)
*REWIND(56)
*CMP(I=56,L,X=20,R=2,C)
*SAVEPF(62,LISTCOM.LST,SYSL,01,SYSL)
*EQJ
```


*JOB(ID=FMPTAPE.BLD)

*SCHED(CM=5,PL=5000,SCR=100,TL=99999,MT=1)

#

This job builds an FMP tape to be used as part of the system installation
procedure. The tape should contain the files needed to bring up a system
once the install is complete, and allow the installer to load, create, or
alter any additional files.

#

*EQUIP(10=MT)

*FMP

*IDENT,5,SYSTEM01

*DUMP,F,10,USER.FILE,MPXS,00,***

*DUMP,F,10,PORT.FILE,MPXS,00,***

*DUMP,F,10,VERIFY,FJOB,01,FJOB

*DUMP,F,10,LOADALL,FJOB,01,FJOB

*DUMP,0,10,JOBS,FMP

*VERIFY,10

*OUT

*UNLOAD(10)

*CLOSE(52)

*CATLIST(U=MPXS/FJOB/JOBS,K=CATLIST,O=E)

*SAVEPF(62,FMPTAPE.LST,SYSL,01,SYSL)

*EQJ

STOP*ENDST*
*ITEMIZE

PROCESSING: LOWMEM.REL,SYSB

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	LOWMEM	6E137475	141D	REL	MM/DD/YY HH:MM:SS		
	ENTRY:		ABORT	ABORTJM	ALLOCATE	ASNGC	AVHT
			AVMEM	BCFSIOO	BKSP	BSY	CALL
			CCCTCT	CEST	CLEAR	CLKINT	...MORE
	EXTERNAL:		SYSTINIT	APIP	SENDMSG	DISPATCH	JABRT
			IOI	MERMSG	IHC	MERMSG	MERMSG
			DAYFILQY	ABORTQZ	REWQZ	READLUQZ	WRITLUQZ
			WEOFQZ	FORMATQZ	FUNCQZ	ERASEQZ	BKSPQZ
			SEDFQZ	DIAGQZ	ULOCQZ	JNLQZ	READDSQZ
			WRITDSQZ	SELECTQZ	CLEARQZ	UINTQZ	BSYQZ
			CLREVTQZ	DEFEVTQZ	OTERCQZ	MUSTQZ	SETEVTQZ
			SETITMQZ	STATUSQZ	USTQZ	JTYPQZ	XALLOCATE
			XCLOSE	DEVICEX	DEVICEQZ	EXPANDQZ	XMODIFY
			XOPEN	XRELEASE	SAVEQZ	DCRMRETQZ	DAYFILQZ
			CTOIQZ	CTOCQZ	CTORQZ	SYSMESQZ	DUMPDQZ
			DMPDRTQZ	DATEQZ	TIMEQZ	TETIMEQZ	TSCHEDQZ
			PFAULTQZ	ENABLEQZ	JBINFOQZ	CNGDTQZ	STATGCQZ
			GETGCQZ	RETGCQZ	CALLX	DWAITX	TSTATUSX
			TASKRSQZ	TSKCNQZ	RETURNX	DELJOBQZ	OPNMEMQZ
			RELMEMQZ	ROUTEQZ	SYSQSQZ	JOBINQZ	SQSRTNQZ
			TRMQZ	XTSKEX	ABRTJMQZ	TSKINFQZ	TSKMEMQZ
			NXTNUMQZ	GETSPCQZ	RETSPCQZ	UETPQZ	SYSRETQZ
			SETPAGQZ	ASNGCX	RELGCX	MGETGCX	DEFGCX
			WRTMEM	SCHED	IOTOI	CHKITMQZ	...MORE

PROCESSING: PDUMP.REL,SYSB

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
2.	PDUMP	5F488983	010F	REL	MM/DD/YY HH:MM:SS		
	ENTRY:		SYSABRT				
	EXTERNAL:		SYSRES	SYSLIB	SYSDATE	CURRENT	RDYLIST
			IDLLIST	STDIR	AVMEM	IVMEM	HIGHPAGE
			PMMAP	PMMAPL	ENDSPCE	FWASPC	SPCETB
			SYSTINIT	ESRSQSO	QPTT	JCTO	ESTB
			ESTE	DETB	ABORTQZ	READLUQZ	IOITS
			ERMGR	BSYQZ	SENDMSG	CALLX	CTOCQZ
			DUMPDQZ	ROUTEQZ	DCRMRETQZ	PICKI	STDIO
			CFM	ICFINIT	LOFINIT	OCF	FCF
			DMF	DCF	BCF	SMDMGR	FDDMGR
			CRTMGR	BCLAMGR	UCLAMGR	CRDMGR	MT05MGR
			LPTMGR	CCCMGR	RBTMGR	OPFMGR	TADC
			PRMPT	MSTRCPU	STATEND		

PROCESSING: ESRS.REL,SYSB

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
3.	ESRS	9A3C89C9	03C3	REL	MM/DD/YY HH:MM:SS		
	ENTRY:		ABORTQZ	ABRTJMQZ	ASNGCX	CNGDTQZ	DEFGCX

ITEMIZE
ITEM NAME

CHECKSUM

REC LEN TYPE

DATE

09/18/84 11:00:25
TIME

EXTERNAL:

DELJOBQZ	GETGCQZ	GETSPCQY	GETSPCQZ	JABRT
JBINFQZ	MGET	MGETGCX	MPUT	...MORE
DISPATCH	GCBLQZ	GCBLKE	GLOBTAB	SCHED
AVMEM	PARMSZ	SYSDATE	SYSDATE	SYSJDAY
MSTRCPU	CPUTIME	DAYFILQY	JCTO	SYSSEC
SYSMID	ENDSPCE	SPCETB	FWASPC	SYSABRT
STTDIR	STATET	JABT2	SENDMSG	JABT
LOWPAGE	HIGHPAGE	PMMAP		

PROCESSING: IOMGR.REL,SYSB

4. IOMGR

64408F32
ENTRY:

0366 REL MM/DD/YY HH:MM:SS

EXTERNAL:

BKSPQZ	CLEARQZ	CRP	DIAGQZ	DMS
ERASEQZ	FORMATQZ	FUNCQZ	IOI	IOTOI
READSQZ	READLUQZ	REWDQZ	SELECTQZ	...MORE
IOITS	MSSPT	MSTPC	MSSF1	MSSF2
GETSPCQY	DISPATCH	SCHED	JABRT	ERMGR
RETSPCQY	RDYLIST	DET	RRETRY	SETEVTQY
MVEMEM				

PROCESSING: IOITS.REL,SYSB

5. IOITS

6340906F
ENTRY:
EXTERNAL:

061C REL MM/DD/YY HH:MM:SS

CONVTAB	IOITS	UETPQZ		
GETSPCQY	JABRT	DISPATCH	DMS	RDMEM
SCHED	VCP	PITB	RTTB	CRP
RRETRY	TINBF	ERMGR	IBLT	UETBS
FACTCTA	SETEVTQY	RETSPCQY	FACTAB	UETBS
FACTCTA	JCTITS	TCTICF	WRMEM	SETEOP

PROCESSING: ERMGR.REL,SYSB

6. ERMGR

683090C3
ENTRY:
EXTERNAL:

01D5 REL MM/DD/YY HH:MM:SS

ERMGR	ERMGRV	MERMSG	RRETRY
DAYFILQY	CTOIQY	IOREC	

PROCESSING: EVNMGR.REL,SYSB

7. EVNMGR

73078FD6
ENTRY:

01BC REL MM/DD/YY HH:MM:SS

EXTERNAL:

BSYQZ	CHKITMQZ	CLREVTQZ	DATEQZ	DEFEVTQZ
DTERCQZ	ENABLEQZ	MUSTQZ	PFAULTQZ	SETEVTQY
SETEVTQZ	SETITMQZ	STATUSQZ	TETIMEQZ	...MORE
DISPATCH	WRMEM	UTAB	JABRT	TSCHEDL
TSCHEDL	TSCHEDL	SYSDATE	EVENTL	EVENTL
RETSPCQY	GETSPCQY	EVENTL	SCHED	MVEMEM
RDMEM				

PROCESSING: INTRCOM.REL,SYSB

ITEMIZE 09/18/84 11:00:30
 ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

8. INTRCOM 73125DCD 00C0 REL MM/DD/YY HH:MM:SS
 ENTRY: APIP SENDMSG
 EXTERNAL: MSTRCPU MSGTOM MSGTOS PAUSVALU CPUCON
 CPUTIME RTSCHED SYSABRT DISPATCH RDYLIST
 STTDIR STATET IDLDIR TOPBTM

PROCESSING: TASKMGR.REL,SYSB

9. TASKMGR 5E2756B1 03E3 REL MM/DD/YY HH:MM:SS
 ENTRY: CALLX CLRTCTQY DISPATCH DWAITX PUTTCTQY
 RESCHED RETURNX RTSCHED SCHED TASKRSQZ
 TSKCNGQZ TSTATUSX XTSKEX
 EXTERNAL: CPUASG GETSPCQY WRTMEM JABRT MVEMEM
 RETPAGES SENDMSG STTDIR STATET RDMEM
 IDLDIR RETSPCQY EVENTL EVENTL MGET
 JMPP JMTRPG PARM JLDRPG JLDR
 TDFRW MSTRCPU JMTRPG MPUT TLOWPR
 THIGHPR THIGHPR JCTO RDYLIST SYSABRT
 IDLLIST CURRENT XPLNK STATENXT STATEND
 CPUCON TSCHEDL TSCHEDL CPUTIME SYSSECM

PROCESSING: DAYMGR.REL,SYSB

10. DAYMGR 741C8406 028C REL MM/DD/YY HH:MM:SS
 ENTRY: CTQCQZ CTOIQY CTOIQZ CTORQZ DAYAIN
 DAYFILQY DAYFILQZ DAYFMSG DAYLUC DAYMGR
 DMBF DMBUF DMBUFC DQFBF ...MORE
 EXTERNAL: DISPATCH TCTOCF RDMEM GETSPCQY SETEVTQY
 SCHED RETSPCQY TIMEQY WRTMEM MUST
 PARMDAY PARMDAY PACK PACKC SAVEQ
 PARMDAY PARMDAY PACKD DMFEVTO SETEVTQ
 SYMESQ DEFEVTQ SETITMQ CLOSE OPEN
 PACKD CTOC PARMDAY SYSDATE SYSDATE
 SYSRES TCTDAY

PROCESSING: SYSQS.REL,SYSB

11. SYSQS 5936869F 05EF REL MM/DD/YY HH:MM:SS
 ENTRY: INITSQS JOBINQZ QTOTS ROUTEQZ SQSRTNQZ
 SYSQSQZ TRMQZ
 EXTERNAL: GETSPCQY RDMEM WRTMEM DISPATCH SCHED
 TCTSQS TCTSQS TCTSQS TCTSQS SETEVTQY
 TCTSQS TCTSQS TLOWPR MUSTQZ TCTSQS
 RETSPCQY TCTSQS TCTSQS AVMEM AVHT
 JCTO JMTRPG MGET JMCI TDFRW
 MSTRCPU SYSLIB SYSRES SYSVER MPXACCES
 TIMEQY SYSDATE PARMSQS SENDMSG STTDIR
 STATET JLDRPG JMTRPG MPUT CLRTCTQY
 PUTTCTQY SQSRTN PARMSQS PARMSQS GETSPCE

ITEMIZE 09/18/84 11:00:37
 ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

SYSSEC	JOBINIT	RETSPCE	SQSSIOQ	SETEVTQ
RELEASE	PARMSQS	NXTNUM	DDF	JCTDF
PICK	PARMSQS	CONVTAB	PICKC	CLOSE
MAXSECL	TLOWPR	THIGHPR	THIGHPR	IVMEM
MAXHT	ULOC	READLU	UST	WRITLU
QPTT	DEFEVTQ	PARMSQS	SETITMQ	OPEN
ALLOCATE	CTOC	PARMSQS		

PROCESSING: FILEMGR.REL,SYSB

12. FILEMGR 6C1F5932 0868 REL MM/DD/YY HH:MM:SS
 ENTRY: DEVICEQZ DEVICEX EXPANDQZ OCRMRET XSAVEQZ
 XALLOCATE XCLOSE XMODIFY XOPEN XRELEASE
 EXTERNAL: TCTFM JABRT DISPATCH TCTFM JCTO
 WRTMEM TCTFM TCTFM TCTFM SCHED
 TCTFM TCTFM RDMEM DAYFILQY SYSSEC
 MAXDT MSESTB MSESTE SYSDLST SYSDLST
 SYSDT MPXACCES MSESTB JCTO MAXDID
 TCTFM WRITLU UST PARMFM RETSPCE
 NHRPT OCRMRET ESTB ESTE TRL
 RTTB ITEST CEST PIWEST PIREST
 GETSPCE PARMFM NWPHR MAXTRAKS MAXSEG
 SYSBDATE FDTFL FDTFL PFMEST ULOC
 READLU IDBUFA RTTB

PROCESSING: SYSBID.REL,SYSB

13. SYSBID 63078945 0358 REL MM/DD/YY HH:MM:SS
 ENTRY: PACK PACKC PACKD PACKO PICK
 PICKC PICKD PICKI
 EXTERNAL: UST ULOC UTP BKSP RETSPCE
 GETSPCE MPXACCES ALLOCATE OPEN PARMSE
 READLU WRITLU EXPANDQ

PROCESSING: STDIO.REL,SYSB

14. STDIO 5D3B99C3 01D3 REL MM/DD/YY HH:MM:SS
 ENTRY: STDIO
 EXTERNAL: MUST PARMSTD PARMSTD QPTT PARMSTD
 ODF GETSPCE PICK PARMSTD CTOI
 PICKI READLU UST SYSSEC MPXACCES
 NXTNUM ALLOCATE PACK PACKC CLOSE
 RELEASE SYSQS IDC RETSPCE WRITLU
 PICKC

PROCESSING: ITS.REL,SYSB

15. ITS 963B88A4 041B REL MM/DD/YY HH:MM:SS
 ENTRY: CFM CHW CPS DCI FUP

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME		
					GFT	GPI	GPIC	GPS	HCI
					IDC	IDS	IHC	MPM	...MORE
	EXTERNAL:				IDBUFA	OPEN	CLOSE	PICK	PICKC
					RDTB	ESTB	ESTE	ABORT	RTTB
					TMM	TMM	MAXSECL	DAYFILEQ	CTOI
					CLEAR	UST	ULOC	READLU	WRITDS
					UTYP	PICKD	PACKD	GETSPCE	SYSDATE
					TIMEQY	SYSMID	SYSRES	SYSSEC	AVMEM
					IVMEM	UETPQ	PICKI		

PROCESSING: ICF.REL,SYSB

16.	ICF	964C93FB	05C4	REL	MM/DD/YY	HH:MM:SS		
		ENTRY:	ICFINIT					
		EXTERNAL:	RTTB	PITB	ABORT	PARMICF	RDTB	
			RDTB	RTTB	UETPQ	DEFEVTO	SETITMQ	
			MUST	PARMICF	PARMICF	UETBS	RETSPCE	
			GPI	PARMICF	WIL	IDC	DCI	
			STA	MPM	TIMEQY	DAYFILEQ	UTYP	
			DEVICEQ	GETSPCE	ROUTEQ	PARMICF	FACTAB	
			NTB	ULOC	UST	READDS	IHC	
			CFM	TRL	TIMEQY	TINFO	TINFOL	
			TINFO	FUP	PACKD	PICKC	CLOSE	
			SOD	CPS	PSTBL	PSTBL	ODF	
			MAXSECL	PARMICF	PARMICF	GPS	WIM	
			CHW	CLEAR	CTOI	PICK	PICKI	
			READLU	TMM	WRITDS			

PROCESSING: LOF.REL,SYSB

17.	LOF	934097B2	020D	REL	MM/DD/YY	HH:MM:SS		
		ENTRY:	LOFINIT					
		EXTERNAL:	MUST	PARMLGF	PARMLOF	UETBS	ABORT	
			STA	RTTB	RDTB	DAYFILEQ	PARMLOF	
			WIM	GPI	UETPQ	QPTT	UTYP	
			DEVICEQ	GETSPCE	WIL	FUP	CHW	
			MAXSECL	FACTAB	CFM	IDC	RBTDET	

PROCESSING: DCF.REL,SYSB

18.	DCF	904C943B	0584	REL	MM/DD/YY	HH:MM:SS		
		ENTRY:	DCF					
		EXTERNAL:	MUST	PARMOCF	PARMOCF	UETBS	GETSPCE	
			PARMOCF	WIM	RETSPCE	UETPQ	DEFEVTO	
			PARMOCF	SETITMQ	RTTB	RTTB	TCTOCF	
			INFMSG	TASKRSQ	SYSMESQ	GPIC	SQSOFCO	
			SYSQS	DCI	DELJOB	QTOTS	QTOTS	
			QTOTS	IDS	WIL	JCTO	CURRENT	
			TCTOCF	RDYLIST	HCI			

PROCESSING: FCF.REL,SYSB

ITEMIZE 09/18/84 11:00:48
 ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

19. FCF 994C9756 0269 REL MM/DD/YY HH:MM:SS
 ENTRY: FCF
 EXTERNAL: MUST PARMFCF PARMFCF UETBS GETSPCE
 PARMFCF WIM RETSPCE UETPQ GPI
 REWD FDTFL ULOC MSESTB MESTE
 MAXTRAKS IDS GFT PARMFCF RELEASE
 READLU UST

PROCESSING: DMF.REL,SYSB

20. DMF 994293F3 0500 REL MM/DD/YY HH:MM:SS
 ENTRY: DMF DMFEVTD
 EXTERNAL: DEFEVTQ PARMDMF MUST PARMDMF PARMDMF
 UETBS PARMDMF WIM RETSPCE UETPQ
 RTTB RTTB DMBUF DMBUF DMBUF
 DMBF SYSRES DAYFILEQ GFT GPI
 DCI IDS DUMPDQ SAVEQ CLOSE
 GETSPCE DMBUF

PROCESSING: DCF.REL,SYSB

21. DCF 984C976C 0253 REL MM/DD/YY HH:MM:SS
 ENTRY: DCF
 EXTERNAL: MUST PARMDCF PARMDCF UETBS GETSPCE
 PARMDCF WIM RETSPCE UETPQ SUTLEN
 SUTB UTP DEVICEQ PARMDCF PARMDCF
 PARMDCF PARMDCF QPTT CTOI RTTB
 GPS DCFS100 SETEVTQ GPIC ESTB
 ESTE IDS RTTB RDTB DCI

PROCESSING: BCF.REL,SYSB

22. BCF 904C98C0 00FF REL MM/DD/YY HH:MM:SS
 ENTRY: BCF
 EXTERNAL: MUST PARMBCF PARMBCF UETBS PARMBCF
 WIM UETPQ GPI DCI BCFS100
 SETEVTQ GETSPCE SQSBCFD SYSQS QPTT
 DAYFILEQ

PROCESSING: SMDMGR.REL,SYSB

23. SMDMGR 65109890 02F5 REL MM/DD/YY HH:MM:SS
 ENTRY: SMDMGR USTAT
 EXTERNAL: SYSRETD SYSABRT DAYFILEQ MSTPC MSSPT
 NPHR SETPAGQ

PROCESSING: FDDMGR.REL,SYSB

ITEMIZE 09/18/84 11:00:52
ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

24. FDDMGR 72199A06 018C REL MM/DD/YY HH:MM:SS
ENTRY: FDDMGR
EXTERNAL: SYSRETQ SETPAGQ

PROCESSING: CRTMGR.REL,SYSB

25. CRTMGR 75088A95 00FD REL MM/DD/YY HH:MM:SS
ENTRY: CRTMGR
EXTERNAL: SYSRETQ

PROCESSING: BCLAMGR.REL,SYSB

26. BCLAMGR 70255FAC 01F2 REL MM/DD/YY HH:MM:SS
ENTRY: BCLAMGR
EXTERNAL: SYSRETQ PRMPT CRBUF

PROCESSING: UCLAMGR.REL,SYSB

27. UCLAMGR 5D255FAF 01EF REL MM/DD/YY HH:MM:SS
ENTRY: UCLAMGR
EXTERNAL: SYSRETQ PRMPT ERMGRV

PROCESSING: CRDMGR.REL,SYSB

28. CRDMGR 75089A05 018D REL MM/DD/YY HH:MM:SS
ENTRY: CRDMGR
EXTERNAL: SYSRETQ SETPAGQ

PROCESSING: MT05MGR.REL,SYSB

29. MT05MGR 64147BB8 01F2 REL MM/DD/YY HH:MM:SS
ENTRY: MT05MGR
EXTERNAL: SYSRETQ SETPAGQ

PROCESSING: LPTMGR.REL,SYSB

30. LPTMGR 6A0D88CE 02C4 REL MM/DD/YY HH:MM:SS
ENTRY: LPTMGR
EXTERNAL: SYSRETQ SETPAGQ

PROCESSING: RBTMGR.REL,SYSB

31. RBTMGR 661885A3 05EF REL MM/DD/YY HH:MM:SS
ENTRY: RBTMGR
EXTERNAL: SYSRETQ UST PARMRBT PARMRBT GETSPCE

ITEMIZE 09/18/84 11:00:56
 ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

PARMRBT PARMRBT RTTB PITB RDTB
 DAYFILEQ DEVICEQ RETSPCE IHC CTOC
 CLOSE READLU WRITLU ABORT CLEAR
 CTOI

PROCESSING: DAYDMP.REL,SYSB

32. DAYDMP 6E1E8503 0198 REL MM/DD/YY HH:MM:SS
 ENTRY: DAYDMP DMPDRTQZ DUMPDQZ
 EXTERNAL: TCTDD TCTDD WRTMEM SCHED DISPATCH
 TCTDD JABRT TCTDD JCTO TCTDD
 JCTO TCTDD RETSPCQY DAYAIN GETSPCQY
 JCTO RDMEM DAYFILQY PARMDD DMPDRTQ
 PICKD PARMDD PACKD PICK PACK
 PICKC PACKC DAYLUC

PROCESSING: CCCMGR.REL,SYSB

33. CCCMGR 731A924A 0A48 REL MM/DD/YY HH:MM:SS
 ENTRY: CCCMGR
 EXTERNAL: SYSRETQ DAYFILEQ RETSPCE SETPAGQ GETSPCE
 PARMCCC

PROCESSING: DPFMGR.REL,SYSB

34. DPFMGR 690D9788 020A REL MM/DD/YY HH:MM:SS
 ENTRY: DPFMGR
 EXTERNAL: SYSRETQ SELECT UST READLU GETSPCE
 PARMOPF DEVICEQ PARMOPF TDAC MCHN
 WRITLU TADC

PROCESSING: CTT.REL,SYSB

35. CTT 9A388A7F 0140 REL MM/DD/YY HH:MM:SS
 ENTRY: TADC TDAC

PROCESSING: SYSTINIT.REL,SYSB

36. SYSTINIT 620858C7 0790 REL MM/DD/YY HH:MM:SS
 ENTRY: CRBUF ENDSPCE FWASPC PRMPT RESEND
 SINTEND SPCETB SYSTINIT TINBF
 EXTERNAL: SYSRES MSTRCPJ PMMAP PMMAP AVMEM
 IVMEM GCSIZE GLOBTAB PMMAP HIGHPAGE
 LOWPAGE PMMAP PMMAP JMTRPG JLDRPG
 MAXHT AVHT URESTB JRESTE DEVMAX
 MAXDT MSESTB MSESTE FDTFL FDTFL
 SYSDLSTE SYSDLST SYSDT PFLT IDBUFA
 JCTO TCTSB TCTSE RTTB RTTB

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME	
			PITB		PITB	RDTB	SYSMID	MAXSECL
			SYSSEC		SYSLIB	SYSBDATE	SYSBDATE	SYSBDATE
			SYSDATE		SYSJDAY	SYSCLK	CPUCON	SCHED
			CLKINT		IDLDIR	XPLNK	CPUTIME	DISPATCH
			TCTBCF		TCTDCF	TCTDMF	TCTFCF	TCTLOF
			TCTOCF		TCTICF	TCTSQS	TCTSTD	TCTDAY
			CCCTCT		SYSABRT	CPUASG	ESTB	ESTE
			GCBLOCK		JCTITS	JQACC	MPXACCES	

PROCESSING: JLDR.REL,SYSB

37.	JLDR	954392C7	08C6	REL	MM/DD/YY	HH:MM:SS			
		EXTERNAL:		PARM			ABORTJM	TSKEX	PARM
				PARM			OPENMEM	PARM	ABORT
				ABORTJM			ASNGC	BKSP	BSY
				CALL			CLOSE	CLREVTQ	CNGDTQ
				CTOC			CTOI	CTOR	DATE
				DEFEVTQ			DEFGC	DELJOB	DEVICE
				DIAG			DTERCVQ	DUMPDQ	DWAIT
				ERASE			EXPANDQ	FORMATQ	FUNC
				JOBINFO			MGETGC	MODIFY	MUST
				OPENMEM			PFAULT	READLU	READDS
				RELGC			RELMEM	RETGC	RETURN
				ROUTEQ			SAVEQ	SELECT	SEOF
				SETITMQ			STATGC	STATUS	STDFEXPS
				TASKRSQ			TETIME	TIME	TSCHED
				TSTATUS			UINT	ULOC	UNLD
				UTYP			WEOF	WRITDS	WRITLU
				UST			ULOC	UTYP	BKSP
				WRITLU			ALLOCATE	OPEN	STDPSEG
				EXPANDQ			TSCHED		STDFEXPS

PROCESSING: JMGR.REL,SYSB

38.	JMGR	95428CC0	03CD	REL	MM/DD/YY	HH:MM:SS			
		EXTERNAL:		DAYFILEQ			CTOI	CTOC	UTYP
				REWD			WEOF	UNLD	SEOF
				CALL			PARM	PARM	TSKEX
				ULOC			MAXDID	ALLOCATE	OPEN
				MODIFY			SAVEQ	TASKINFO	TRM
				DATE			TIME	ABORTJM	PARM
				PARM			OPENMEM	STDPSEG	BKSP
				WRITLU			STDPSEG	STDFEXPS	EXPANDQ
				MUST			RETURN	SELECT	TSCHED

ITEMIZE
ENTRYPOINT

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MODULE

MODULES REFERENCING THE ENTRYPOINT

ABORT	LOWMEM	ICF	ITS	JLDR	LOF	RBTMGR
ABORTJM	LOWMEM	JLDR	JLDR	JMGR		
ABORTQZ	ESRS	LOWMEM	PDUMP			
ABRTJMQZ	ESRS	LOWMEM				
ALLOCATE	LOWMEM	JLDR SYSQS	JLDR	JMGR	STDIO	SYSBIO
APIP	INTRCOM	LOWMEM				
ASNGC	LOWMEM	JLDR				
ASNGCX	ESRS	LOWMEM				
AVHT	LOWMEM	SYSQS	SYSTINIT			
AVMEM	LOWMEM	ESRS	ITS	PDUMP	SYSQS	SYSTINIT
BCF	BCF	LOWMEM	PDUMP			
BCFSID0	LOWMEM	BCF				
BCLAMGR	BCLAMGR	LOWMEM	PDUMP			
BKSP	LOWMEM	JLDR	JLDR	JMGR	SYSBIO	
BKSPQZ	IOMGR	LOWMEM				
BSY	LOWMEM	JLDR				
BSYQZ	EVNMGR	LOWMEM	PDUMP			
CALL	LOWMEM	JLDR	JMGR			
CALLX	TASKMGR	LOWMEM	PDUMP			
CCCMGR	CCCMGR	LOWMEM	PDUMP			
CCCTCT	LOWMEM	SYSTINIT				
CEST	LOWMEM	FILEMGR				
CFM	ITS	ICF	LOF	PDUMP		
CHKITMQZ	EVNMGR	LOWMEM				
CHW	ITS	ICF	LOF			
CLEAR	LOWMEM	ICF	ITS	JLDR	RBTMGR	

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
CLEARQZ	IDMGR	LOWMEM				
CLKINT	LOWMEM	SYSTINIT				
CLOSE	LOWMEM	DAYMGR JMGR	DMF RBTMGR	ICF STDIO	ITS SYSQS	JLDR
CLREVTQ	LOWMEM	JLDR				
CLREVTQZ	EVNMGR	LOWMEM				
CLRTCTQY	TASKMGR	SYSQS				
CNGDTQ	LOWMEM	JLDR				
CNGDTQZ	ESRS	LOWMEM				
CONVTAB	IOITS	SYSQS				
CPS	ITS	ICF				
CPUASG	LOWMEM	SYSTINIT	TASKMGR			
CPUCON	LOWMEM	INTRCOM	SYSTINIT	TASKMGR		
CPUERR	LOWMEM					
CPUTIME	LOWMEM	ESRS	INTRCOM	SYSTINIT	TASKMGR	
CRBUF	SYSTINIT	BCLAMGR				
CRDMGR	CRDMGR	LOWMEM	PDUMP			
CRP	IDMGR	IOITS				
CRTMGR	CRTMGR	LOWMEM	PDUMP			
CTDC	LOWMEM	DAYMGR	JLDR	JMGR	RBTMGR	SYSQS
CTDCQZ	DAYMGR	LOWMEM	PDUMP			
CTOI	LOWMEM	DCF RBTMGR	ICF STDIO	ITS	JLDR	JMGR
CTOIQZ	DAYMGR	LOWMEM				
CTOIQY	DAYMGR	ERMGR				
CTOR	LOWMEM	JLDR				
CTORQZ	DAYMGR	LOWMEM				
CURRENT	LOWMEM	DCF	PDUMP	TASKMGR		

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ENTRYPOINT

MODULE

MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
DATE	LOWMEM	JLDR JMGR
DATEQZ	EVNMGR	LOWMEM
DAYAIN	DAYMGR	DAYDMP
DAYDMP	DAYDMP	LOWMEM
DAYFILEQ	LOWMEM	BCF JLDR CCCMGR JMGR DMF LOF ICF RBTMGR ITS SMDMGR
DAYFILEQY	DAYMGR	DAYDMP ERMGR ESRS FILEMGR LOWMEM
DAYFILQZ	DAYMGR	LOWMEM
DAYFMSG	DAYMGR	
DAYLUC	DAYMGR	DAYDMP
DAYMGR	DAYMGR	LOWMEM
DCF	DCF	LOWMEM PDUMP
DCFSI00	LOWMEM	DCF
DCI	ITS	BCF DCF DMF ICF OCF
DEFEVTQ	LOWMEM	DAYMGR DMF ICF JLDR OCF SYSQS
DEFEVTQZ	EVNMGR	LOWMEM
DEFGC	LOWMEM	JLDR
DEFGCX	ESRS	LOWMEM
DELJOB	LOWMEM	JLDR DCF
DELJOBQZ	ESRS	LOWMEM
DEST	LOWMEM	
DETB	LOWMEM	IOMGR PDUMP
DEVICE	LOWMEM	JLDR
DEVICEQ	LOWMEM	DCF OPFMGR ICF RBTMGR JLDR JMGR LOF
DEVICEX	FILEMGR	LOWMEM
DEVICEQZ	FILEMGR	LOWMEM

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
DEVMAX	LOWMEM	SYSTINIT
DEVTAB	LOWMEM	
DIAG	LOWMEM	JLDR
DIAGQZ	IDMGR	LOWMEM
DISPATCH	TASKMGR	DAYDMP INTRCOM SYSTINIT
		DAYMGR IOITS
		ESRS IOMGR
		EVNMGR LOWMEM
		FILEMGR SYSQS
DMAERR	LOWMEM	
DMBF	DAYMGR	DMF
DMBUF	DAYMGR	DMF
DMBUFC	DAYMGR	
DMF	DMF	LOWMEM PDUMP
DMFEVTO	DMF	DAYMGR
DMPDRTQ	LOWMEM	DAYDMP
DMPDRTQZ	DAYDMP	LOWMEM
DMS	IDMGR	IOITS
DDFBF	DAYMGR	
DTERCYQ	LOWMEM	JLDR
DTERCYQZ	EVNMGR	LOWMEM
DUMPDQ	LOWMEM	DMF JLDR
DUMPDQZ	DAYDMP	LOWMEM PDUMP
DWAIT	LOWMEM	JLDR
DWAITX	TASKMGR	LOWMEM
ENABLE	LOWMEM	JLDR
ENABLEQZ	EVNMGR	LOWMEM
ENDSPACE	SYSTINIT	ESRS PDUMP
ERASE	LOWMEM	JLDR
SEQZ	IDMGR	LOWMEM

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
ERMGR	ERMGR	IOITS	IOMGR	PDUMP		
ERMGRV	ERMGR	UCLAMGR				
ERRLOG	????????	LOWMEM				
ESRSQSO	LOWMEM	PDUMP				
ESTB	LOWMEM	DCF	FILEMGR	ITS	PDUMP	SYSTINIT
ESTE	LOWMEM	DCF	FILEMGR	ITS	PDUMP	SYSTINIT
EVENTL	LOWMEM	EVNMGR	EVNMGR	EVNMGR	TASKMGR	TASKMGR
EXPANDQ	LOWMEM	JLDR	JLDR	JMGR	SYSBIO	
EXPANDQZ	FILEMGR	LOWMEM				
FACTAB	LOWMEM	ICF	IOITS	LOF		
FACTCTA	LOWMEM	IOITS	IOITS			
FCF	FCF	LOWMEM	PDUMP			
FDDMGR	FDDMGR	LOWMEM	PDUMP			
FDTFL	LOWMEM	FCF	FILEMGR	FILEMGR	SYSTINIT	SYSTINIT
FORMATQ	LOWMEM	JLDR				
FORMATQZ	IOMGR	LOWMEM				
FUNC	LOWMEM	JLDR				
FUNCQZ	IOMGR	LOWMEM				
FUP	ITS	ICF	LOF			
FWASPC	SYSTINIT	ESRS	PDUMP			
GCBLKE	LOWMEM	ESRS				
GCBLOCK	LOWMEM	ESRS	SYSTINIT			
GCSIZE	LOWMEM	SYSTINIT				
GETGC	LOWMEM	JLDR				
GETGCQZ	ESRS	LOWMEM				
GETSPCE	LOWMEM	BCF	CCCMGR	DCF	DMF	FCF
		FILEMGR	ICF	ITS	LOF	OCF

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
		OPFMGR	RBTMGR	STDIO	SYSBIO	SYSQS
GETSPCQZ	ESRS	LOWMEM				
GETSPCOY	ESRS	DAYDMP SYSQS	DAYMGR TASKMGR	EVNMGR	IOITS	IOMGR
GFT	ITS	DMF	FCF			
GLOBTAB	LOWMEM	ESRS	SYSTINIT			
GPI	ITS	BCF	DMF	FCF	ICF	LOF
GPIC	ITS	DCF	OCF			
GPS	ITS	DCF	ICF			
HCI	ITS	OCF				
HIGHPAGE	LOWMEM	ESRS	PDUMP	SYSTINIT		
IBLT	LOWMEM	IOITS				
ICFINIT	ICF	LOWMEM	PDUMP			
IDBUFA	LOWMEM	FILEMGR	ITS	SYSTINIT		
IDS	ITS	ICF	LOF	STDIO		
IDLDIR	LOWMEM	INTRCOM	SYSTINIT	TASKMGR		
IDLLIST	LOWMEM	PDUMP	TASKMGR			
IDS	ITS	DCF	DMF	FCF	OCF	
IHC	ITS	ICF	LOWMEM	RBTMGR		
INFMSG	DAYMGR	OCF				
INITSQS	SYSQS	LOWMEM				
IOI	IOMGR	LOWMEM				
IOITS	IOITS	IOMGR	PDUMP			
IDREC	LOWMEM	ERMGR				
IOTDI	IOMGR	LOWMEM				
ITEST	LOWMEM	FILEMGR				
IVMEM	LOWMEM	ITS	PDUMP	SYSQS	SYSTINIT	
IORT	ESRS	DAYDMP	EVNMGR	FILEMGR	IOITS	IOMGR

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
		LOWMEM	TASKMGR			
JCT	LOWMEM	ESRS				
JABT2	LOWMEM	ESRS				
JBINFOQZ	ESRS	LOWMEM				
JCTO	LOWMEM	DAYDMP FILEMGR TASKMGR	DAYDMP OCF	DAYDMP PDUMP	ESRS SYSQS	FILEMGR SYSTINIT
JCTDF	LOWMEM	SYSQS				
JCTITS	LOWMEM	IOITS	SYSTINIT			
JLDR	LOWMEM	TASKMGR				
JLDRPG	LOWMEM	SYSQS	SYSTINIT	TASKMGR		
JMCI	LOWMEM	SYSQS				
JMPP	LOWMEM	TASKMGR				
JMTRPG	LOWMEM	SYSQS	SYSQS	SYSTINIT	TASKMGR	TASKMGR
JOBINFO	LOWMEM	JLDR	JMGR			
JINIT	LOWMEM	SYSQS				
JOBINFOZ	SYSQS	LOWMEM				
JQACC	?????????	SYSTINIT				
JTRM	LOWMEM					
LOFINIT	LOF	LOWMEM	PDUMP			
LOWPAGE	LOWMEM	ESRS	SYSTINIT			
LPTMGR	LPTMGR	LOWMEM	PDUMP			
MAXDID	LOWMEM	FILEMGR	JMGR			
MAXDT	LOWMEM	FILEMGR	SYSTINIT			
MAXHT	LOWMEM	SYSQS	SYSTINIT			
MAXSECL	LOWMEM	ICF	ITS	LOF	SYSQS	SYSTINIT
MAXSEG	LOWMEM	FILEMGR				
MAXTRAKS	LOWMEM	FCF	FILEMGR			

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
MCHN	LOWMEM	OPFMGR
MERMSG	ERMGR	LOWMEM LOWMEM LOWMEM
MGETGC	LOWMEM	JLDR
MGETGCX	ESRS	LOWMEM
MGET	ESRS	SYSQS TASKMGR
MODIFY	LOWMEM	JLDR JMGR
MPM	ITS	ICF
MPUT	ESRS	SYSQS TASKMGR
MPXACCES	LOWMEM	FILEMGR STDIO SYSBID SYSQS SYSTINIT
MSCLOK	LOWMEM	
MSESTB	LOWMEM	FCF FILEMGR FILEMGR SYSTINIT
MSESTE	LOWMEM	FCF FILEMGR SYSTINIT
MSGTOM	LOWMEM	INTRCOM
MSTOS	LOWMEM	INTRCOM
MSSF1	LOWMEM	IOMGR
MSSF2	LOWMEM	IOMGR
MSSPT	LOWMEM	IOMGR SMDMGR
MSTPC	LOWMEM	IOMGR SMDMGR
MSTRCPU	LOWMEM	ESRS INTRCOM PDUMP SYSQS SYSTINIT TASKMGR
MTOSMGR	MTOSMGR	LOWMEM PDUMP
MTCT01	LOWMEM	
MTCT02	LOWMEM	
MTCT03	LOWMEM	
MUST	LOWMEM	BCF DAYMGR DCF DMF FCF ICF JLDR JMGR LOF OCF STDIO
MUSTQZ	EVNMGR	LOWMEM SYSQS

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ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

ITEMIZE ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT					
MVEMEM	ESRS	EVNMR	IOMGR	LOWMEM	TASKMGR		
NHRPT	LOWMEM	FILEMGR					
NMMTB	LOWMEM						
NMMTE	LOWMEM						
NTB	ITS	ICF					
NWPHR	LOWMEM	FILEMGR	SMDMGR				
NXTNUM	LOWMEM	STDIO	SYSQS				
NXTNUMQZ	ESRS	LOWMEM					
OCF	OCF	LOWMEM	PDUMP				
OCRMRET	LOWMEM	FILEMGR					
OCRMRET X	FILEMGR	LOWMEM	PDUMP				
ODF	ITS	ICF	STDIO	SYSQS			
OPEN	LOWMEM	DAYMGR	ITS	JLDR	JLDR	JMGR	
		SYSBIO	SYSQS				
OPNMEM	LOWMEM	JLDR	JLDR	JMGR			
OPFMGR	OPFMGR	LOWMEM	PDUMP				
OPNMEMQZ	ESRS	LOWMEM					
PACK	SYSBIO	DAYDMP	DAYMGR	STDIO			
PACKC	SYSBIO	DAYDMP	DAYMGR	STDIO			
PACKD	SYSBIO	DAYDMP	DAYMGR	ITS			
PACKO	SYSBIO	DAYMGR	ICF				
PARM	LOWMEM	JLDR	JLDR	JLDR	JLDR	JLDR	
		JLDR	JMGR	JMGR	JMGR	JMGR	
		JMGR	TASKMGR				
PARMBCF	LOWMEM	BCF	BCF	BCF			
PARMBCLA	LOWMEM						
PARMCCC	LOWMEM	CCCMGR					
PARMCR	LOWMEM						

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ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

PARMCRT	LOWMEM					
PARMDAY	LOWMEM	DAYMGR	DAYMGR	DAYMGR	DAYMGR	DAYMGR
PARMDCF	LOWMEM	DCF DCF	DCF DCF	DCF	DCF	DCF
PARMDD	LOWMEM	DAYDMP	DAYDMP			
PARMDMF	LOWMEM	DMF	DMF	DMF	DMF	
PARMFCF	LOWMEM	FCF	FCF	FCF	FCF	
PARMFDD	LOWMEM					
PARMFM	LOWMEM	FILEMGR	FILEMGR			
PARMIB	LOWMEM					
PARMICF	LOWMEM	ICF ICF	ICF ICF	ICF	ICF	ICF
PARMIE	LOWMEM					
PARMLDF	LOWMEM	LOF	LOF	LOF		
PARMLP	LOWMEM					
PARMMT9	LOWMEM					
PARMOCF	LOWMEM	OCF	OCF	OCF	OCF	
PARMOPF	LOWMEM	OPFMGR	OPFMGR			
PARMRBT	LOWMEM	RBTMGR	RBTMGR	RBTMGR	RBTMGR	
PARMSB	LOWMEM					
PARMSE	LOWMEM	SYSBID				
PARMSMD	LOWMEM					
PARMSQS	LOWMEM	SYSQS SYSQS	SYSQS SYSQS	SYSQS	SYSQS	SYSQS
PARMSTD	LOWMEM	STDIO	STDIO	STDIO	STDIO	
PARMSZ	LOWMEM	ESRS				
PARMUCLA	LOWMEM					
PAUSVALU	LOWMEM	INTRCOM				
PAULT	LOWMEM	JLDR				

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ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
PFAULTQZ	EVNMGR	LOWMEM				
PFLT	LOWMEM	SYSTINIT				
PFMEST	LOWMEM	FILEMGR				
PICKI	SYSBIO	ICF	ITS	PDUMP	STDIO	
PICK	SYSBIO	DAYDMP	ICF	ITS	STDIO	SYSQS
PICKC	SYSBIO	DAYDMP	ICF	ITS	STDIO	SYSQS
PICKD	SYSBIO	DAYDMP	ITS			
PIREST	LOWMEM	FILEMGR				
PITB	LOWMEM	ICF	IOITS	RBTMGR	SYSTINIT	SYSTINIT
PIWEST	LOWMEM	FILEMGR				
PMMAP	LOWMEM	ESRS	PDUMP	SYSTINIT	SYSTINIT	SYSTINIT
		SYSTINIT				
PMMAPL	LOWMEM	PDUMP	SYSTINIT			
PRMPT	SYSTINIT	BCLAMGR	PDUMP	UCLAMGR		
PSOBL	ITS	ICF	ICF			
PUTTCTQY	TASKMGR	SYSQS				
QPTT	LOWMEM	BCF	DCF	LOF	PDUMP	STDIO
		SYSQS				
QTOTS	SYSQS	OCF	OCF	OCF		
RBTDET	LOWMEM	LOF				
RBTMGR	RBTMGR	LOWMEM	PDUMP			
RDMEM	ESRS	DAYDMP	DAYMGR	EVNMGR	FILEMGR	IOITS
		LOWMEM	SYSQS	TASKMGR		
RDTB	LOWMEM	DCF	ICF	ICF	ITS	LOF
		RBTMGR	SYSTINIT			
RDYLIST	LOWMEM	INTRCOM	IOMGR	OCF	PDUMP	TASKMGR
READDS	LOWMEM	ICF	JLDR			
READLU	LOWMEM	FCF	FILEMGR	ICF	ITS	JLDR
		JLDR	JMGR	OPFMGR	RBTMGR	STDIO

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
		SYSBID	SYSQS			
RDLUQZ	IOMGR	LOWMEM	PDUMP			
READDQZ	IOMGR	LOWMEM				
RELEASE	LOWMEM	FCF	JLDR	JMGR	STOIO	SYSQS
RELGC	LOWMEM	JLDR				
RELGCX	ESRS	LOWMEM				
RELMEM	LOWMEM	JLDR				
RELMEMQZ	ESRS	LOWMEM				
RESCHED	TASKMGR					
RESEND	SYSTINIT					
RETGC	LOWMEM	JLDR				
RETGCQZ	ESRS	LOWMEM				
RETPAGES	ESRS	TASKMGR				
RETSPACE	LOWMEM	CCCMGR	DCF	DMF	FCF	FILEMGR
		ICF	DCF	RBTMGR	STDIO	SYSBID
		SYSQS				
RETSPACEQZ	ESRS	LOWMEM				
RETSPACEQY	ESRS	DAYDMP	DAYMGR	EVNMGR	IOITS	IOMGR
		SYSQS	TASKMGR			
RETURN	LOWMEM	JLDR	JMGR			
RETURNX	TASKMGR	LOWMEM				
REWD	LOWMEM	FCF	JLDR	JMGR		
REWDQZ	IOMGR	LOWMEM				
ROUTEQ	LOWMEM	ICF	JLDR			
ROUTEQZ	SYSQS	LOWMEM	PDUMP			
RRETRY	ERMGR	IOITS	IOMGR			
RTSCHED	TASKMGR	INTRCOM	LOWMEM			
RTTB	LOWMEM	DCF	DCF	DMF	DMF	FILEMGR
		FILEMGR	ICF	ICF	IOITS	ITS

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
		LOF	OCF	OCF	RBTMGR	SYSTINIT
		SYSTINIT				
SAVEQ	LOWMEM	DAYMGR	DMF	JLDR	JMGR	
SAVEQZ	FILEMGR	LOWMEM				
SCHED	TASKMGR	DAYDMP	DAYMGR	ESRS	EVNMGR	FILEMGR
		IOITS	IOGR	LOWMEM	SYSQS	SYSTINIT
SELECT	LOWMEM	JLDR	JMGR	OPFMGR		
SELECTQZ	IOGR	LOWMEM				
SENDMSG	INTRCOM	ESRS	LOWMEM	PDUMP	SYSQS	TASKMGR
SEOF	LOWMEM	JLDR	JMGR			
SEOFQZ	IOGR	LOWMEM				
SETEVTQ	LOWMEM	BCF	DAYMGR	OCF	JLDR	SYSQS
SETEVTQZ	EVNMGR	LOWMEM				
SETEOP	IOGR	IOITS				
SETEVTQY	EVNMGR	DAYMGR	IOITS	IOGR	SYSQS	
SETITMQ	LOWMEM	DAYMGR	ICF	JLDR	OCF	SYSQS
SETITMQZ	EVNMGR	LOWMEM				
SETPAGQ	LOWMEM	CCCMGR	CRDMGR	FDDMGR	LPTMGR	MT05MGR
		SMDMGR				
SETPAGQZ	IOGR	LOWMEM				
SINTEND	SYSTINIT					
SMDMGR	SMDMGR	LOWMEM	PDUMP			
SOD	ITS	ICF				
SPCETB	SYSTINIT	ESRS	PDUMP			
SQSBCFD	LOWMEM	BCF				
SQSOCFD	LOWMEM	OCF				
SQSRTN	LOWMEM	SYSQS				
SQSRTNQZ	SYSQS	LOWMEM				
SISID	LOWMEM	SYSQS				

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ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

ITEMIZE	ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT			
STA	ITS	ICF	LOF			
STATEND	LOWMEM	PDUMP	TASKMGR			
STATENXT	LOWMEM	TASKMGR				
STATET	LOWMEM	ESRS	INTRCOM	SYSQS	TASKMGR	
STATGC	LOWMEM	JLDR				
STATUS	LOWMEM	JLDR				
STATUSQZ	EVNMGR	LOWMEM				
STATGCQZ	ESRS	LOWMEM				
STDBS	LOWMEM					
STDFEXPS	LOWMEM	JLDR	JLDR	JMGR		
STDIO	STDIO	LOWMEM	PDUMP			
STDPSEG	LOWMEM	JLDR	JLDR	JLDR	JMGR	JMGR
STDIR	LOWMEM	ESRS	INTRCOM	PDUMP	SYSQS	TASKMGR
SUTB	LOWMEM	DCF				
SUTLEN	LOWMEM	DCF				
SYSABRT	PDUMP	ESRS TASKMGR	INTRCOM	LOWMEM	SMDMGR	SYSTINIT
SYSBDATE	LOWMEM	ESRS	FILEMGR	SYSTINIT	SYSTINIT	SYSTINIT
SYSCLOK	LOWMEM	SYSTINIT				
SYSDATE	LOWMEM	DAYMGR PDUMP	DAYMGR SYSQS	ESRS SYSTINIT	EVNMGR	ITS
SYSDLST	LOWMEM	FILEMGR	FILEMGR	SYSTINIT		
SYSDLSTE	LOWMEM	SYSTINIT				
SYSOT	LOWMEM	FILEMGR	SYSTINIT			
SYSJDAY	LOWMEM	ESRS	SYSTINIT			
SYSLIB	LOWMEM	PDUMP	SYSQS	SYSTINIT		
SYSMESQ	LOWMEM	DAYMGR	DCF			
SUMID	LOWMEM	ESRS	ITS	SYSTINIT		

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ENTRYPOINT

MODULE

MODULES REFERENCING THE ENTRYPOINT

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SYSMESQZ	DAYMGR	LOWMEM					
SYSOHD	LOWMEM						
SYSQS	LOWMEM	BCF	OCF	STDIO			
SYSQSQZ	SYSQS	LOWMEM					
SYSRES	LOWMEM	DAYMGR SYSTINIT	DMF	ITS	PDUMP	SYSQS	
SYSRETQ	LOWMEM	BCLAMGR LPTMGR UCLAMGR	CCCMGR MTOSMGR	CRDMGR OPFMGR	CRTMGR RBTMGR	FDDMGR SMDMGR	
SYSRETQZ	IGMGR	LOWMEM					
SYSSEC	LOWMEM	ESRS SYSTINIT	FILEMGR	ITS	STDIO	SYSQS	
SYSSECM	????????	TASKMGR					
SYSTINIT	SYSTINIT	LOWMEM.	PDUMP				
SYSVER	LOWMEM	SYSQS					
TIOC	CTT	OPFMGR	PDUMP				
TASKINFO	LOWMEM	JMGR					
TASKMEM	LOWMEM						
TASKRSQ	LOWMEM	JLDR	OCF				
TASKRSQZ	TASKMGR	LOWMEM					
TCTBCF	LOWMEM	SYSTINIT					
TCTDAY	LOWMEM	DAYMGR	SYSTINIT				
TCTDCF	LOWMEM	SYSTINIT					
TCTDD	LOWMEM	DAYDMP DAYDMP	DAYDMP	DAYDMP	DAYDMP	DAYDMP	
TCTDMF	LOWMEM	SYSTINIT					
TCTFCF	LOWMEM	SYSTINIT					
TCTFM	LOWMEM	FILEMGR FILEMGR	FILEMGR FILEMGR	FILEMGR FILEMGR	FILEMGR	FILEMGR	
TIOCF	LOWMEM	IOITS	SYSTINIT				

ITEMIZE

09/18/84 11:01:10

ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
TCTLOF	LOWMEM	SYSTINIT
TCTOCF	LOWMEM	DAYMGR OCF OCF SYSTINIT
TCTSB	LOWMEM	SYSTINIT
TCTSE	LOWMEM	SYSTINIT
TCTSQS	LOWMEM	SYSQS SYSQS SYSQS SYSQS SYSQS SYSQS SYSQS SYSQS SYSTINIT
TCTSTD	LOWMEM	SYSTINIT
TDAC	CTT	OPFMGR
TDFRW	LOWMEM	SYSQS TASKMGR
TETIME	LOWMEM	JLDR
TETIMEQZ	EVNMGR	LOWMEM
THIGHPR	LOWMEM	SYSQS SYSQS TASKMGR TASKMGR
TIME	LOWMEM	JLDR JMGR
TIMEQZ	EVNMGR	LOWMEM
TIMEQY	EVNMGR	ICF
TIMEQY	EVNMGR	DAYMGR ICF ITS SYSQS
TINBF	SYSTINIT	IDITS
TINFO	ITS	ICF ICF
TINFOL	ITS	ICF
TLOWPR	LOWMEM	SYSQS SYSQS TASKMGR
TMM	LOWMEM	ICF ITS ITS
TOPBTM	????????	INTRCOM
TRL	LOWMEM	FILEMGR ICF
TRM	LOWMEM	JMGR
TRMQZ	SYSQS	LOWMEM
TSCHED	LOWMEM	JLDR JLDR JMGR
TSCHEDL	LOWMEM	EVNMGR EVNMGR EVNMGR TASKMGR TASKMGR

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT					
TSCHEDQZ	EVNMGR	LOWMEM					
TSKNGO	LOWMEM	JLDR					
TSKNGOZ	TASKMGR	LOWMEM					
TSKEX	LOWMEM	JLDR	JMGR				
TSKINFQZ	ESRS	LOWMEM					
TSKMEMQZ	ESRS	LOWMEM					
TSTATUS	LOWMEM	JLDR					
TSTATUSX	TASKMGR	LOWMEM					
UCLAMGR	JCLAMGR	LOWMEM	PDUMP				
UETBS	LOWMEM	BCF IDITS	DCF IDITS	DMF LOF	FCF OCF	ICF	
UETPQ	LOWMEM	BCF ITS	DCF LOF	DMF OCF	FCF	ICF	
UETPQZ	IDITS	LOWMEM					
UINT	LOWMEM	JLDR					
UINTQZ	IDMGR	LOWMEM					
ULOC	LOWMEM	FCF JLDR	FILEMGR JMGR	ICF SYSBID	ITS SYSQS	JLDR	
ULOCQZ	IDMGR	LOWMEM					
UNLD	LOWMEM	JLDR	JMGR				
UNLDQZ	IDMGR	LOWMEM					
URESTB	LOWMEM	SYSTINIT					
URESTE	LOWMEM	SYSTINIT					
UST	LOWMEM	FCF JLDR SYSBID	FILEMGR JMGR SYSQS	ICF OPFMGR	ITS RBTMGR	JLDR STDIO	
USTAT	SMDMGR						
USTQZ	EVNMGR	LOWMEM					
UTAB	LOWMEM	EVNMGR					

ITEMIZE

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
UTYP	LOWMEM	DCF JMGR
●		ICF LOF
		ITS SYSBIO
		JLDR
		JLDR
UTYPQZ	EVNMGR	LOWMEM
VCP	IDMGR	IOITS
WEOF	LOWMEM	JLDR
		JMGR
WEOFQZ	IDMGR	LOWMEM
WIL	ITS	ICF
		LOF
		DCF
WIM	ITS	BCF
		LOF
		DCF
		OCF
		DMF
		FCF
		ICF
WRITDS	LOWMEM	ICF
		ITS
		JLDR
WRITLU	LOWMEM	FILEMGR
		RBTMGR
		JLDR
		STDIO
		JLDR
		SYSBIO
		JMGR
		SYSQS
		OPFMGR
WRITLUQZ	IDMGR	LOWMEM
WRITDSQZ	IDMGR	LOWMEM
WRTMEM	ESRS	DAYDMP
		LOWMEM
●		DAYMGR
		SYSQS
		EVNMGR
		TASKMGR
		FILEMGR
		IOITS
XALLOCATE	FILEMGR	LOWMEM
XCLOSE	FILEMGR	LOWMEM
XMODIFY	FILEMGR	LOWMEM
XOPEN	FILEMGR	LOWMEM
XPLNK	LOWMEM	SYSTINIT
		TASKMGR
XRELEASE	FILEMGR	LOWMEM
XTSKEX	TASKMGR	LOWMEM

ITEMIZE COMPLETE.
*ITEMIZE

PROCESSING: SYS-BKDBK.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME	
1.	BLKDEBLK	782165E4		028C	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		BLKFSZE		PACK	PACKC	PACKD	PACKO
			PICK		PICKC	PICKD	PICKI	
	EXTERNAL:		UST		ULOC	UTYP	PARM	BKSP
			CRTDCON		CRTBUFL	JMTRTEMC	READLU	PARM
			ABORTJM		CRTBUFL	WRITLU	JCIJPL	JCIJPC
			JCIJSCRL		JCIJNUM	JACC	ALLOCATE	OPEN
			PARM		PARM	LUNITBL	LUNITBL	STDPSEG
			STDFEXPS		EXPANDQ	STDFEXPS	BDBWTIME	TSCHED
			STDPSEG					

PROCESSING: SYS-TSKMON.REL,LBLD

2.	TSKMON	5C0E9487		000B	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		TSKMON				
	EXTERNAL:		PARM		PACKO		RETURN

PROCESSING: MPXBOOT.REL,SYSB

3.	MPXBOOT	63104CC6		06D7	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		MPXBOOT				

PROCESSING: INSTALL.REL,SYSB

4.	TD.INSTL	5D0D7D5A		0010	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		CCCP		CCCR	CCI	CFOI	CRI
			CTOIOC		HCI	ITI	LPI	MSI
	EXTERNAL:		OPSEND		SELI	START	SYABRT	
			INSTSTRT					
5.	COMIOC	6D1D9204		0092	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		CFD		CIO	CTO	IDCC	IOI
			IOICRT		SEL	SIO	SPG	
	EXTERNAL:		CFDI		CTOIOC	SELI	MSI	LPI
			CRI		MTI	ITI	CCI	CCCR
			CCCP		SIOC	OPSEND	OPSEND	
6.	LCTT	924C89C1		01CA	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		MTC		MTI			
	EXTERNAL:		IOI					
7.	SYSTINST	63083FBE		1999	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		INSTSTRT		SIOC			
	EXTERNAL:		SIO		CIO	MTC		

ITEMIZE

ITEM NAME CHECKSUM REC LEN TYPE

09/18/84 11:01:15
DATE TIME

PROCESSING: DSKUTIL.REL,SYSB

8.	TO.INSTL	5D0D7D59	0011	REL	MM/DD/YY	HH:MM:SS		
	ENTRY:		CCCP	CCCR	CCI	CFDI	CRI	
			CTOIOC	HCI	ITI	LPI	MSI	
			MTI	OPSEND	SELI	START	...	MORE
	EXTERNAL:	DSKUTIL						
9.	COMIOC	6D1D9204	0092	REL	MM/DD/YY	HH:MM:SS		
	ENTRY:		CFD	CID	CTO	IOCC	IOI	
			IOICRT	SEL	SIO	SPG		
	EXTERNAL:		CFDI	CTOIOC	SELI	MSI	LPI	
			CRI	MTI	ITI	CCI	CCCR	
			CCCP	SIOC	OPSEND	OPSEND		
10.	DSKUTIL	67134A45	1E45	REL	MM/DD/YY	HH:MM:SS		
	ENTRY:		DSKUTIL	SIGC				
	EXTERNAL:		SIO	CID				

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
ABORTJM	????????	BLKDEBLK
ALLOCATE	????????	BLKDEBLK
BDBWTIME	????????	BLKDEBLK
BKSP	????????	BLKDEBLK
BLKFSZE	BLKDEBLK	
CCCP	TO.INSTL	COMIOC
CCCP	TO.INSTL	DUPLICATE ENTRYPOINT
CCCR	TO.INSTL	COMIOC
CCCR	TO.INSTL	DUPLICATE ENTRYPOINT
CCI	TO.INSTL	COMIOC
CCI	TO.INSTL	DUPLICATE ENTRYPOINT
CFD	COMIOC	
CFD	COMIOC	DUPLICATE ENTRYPOINT
CFDI	TO.INSTL	COMIOC
CFDI	TO.INSTL	DUPLICATE ENTRYPOINT
CID	COMIOC	SYSTINST
CID	COMIOC	DUPLICATE ENTRYPOINT
CRI	TO.INSTL	COMIOC
CRI	TO.INSTL	DUPLICATE ENTRYPOINT
CRTBUFL	????????	BLKDEBLK BLKDEBLK
CRTDCBN	????????	BLKDEBLK
CTD	COMIOC	
CTD	COMIOC	DUPLICATE ENTRYPOINT
CTOIOC	TO.INSTL	COMIOC
CTOIOC	TO.INSTL	DUPLICATE ENTRYPOINT
DSKUTIL	DSKUTIL	TO.INSTL

ITEMIZE

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
EXPANDQ	????????	BLKDEBLK
HCI	TD.INSTL	
HCI	TD.INSTL	DUPLICATE ENTRYPOINT
INSTSTRT	SYSTINST	TD.INSTL
IOCC	COMIOC	
IOCC	COMIOC	DUPLICATE ENTRYPOINT
IOI	COMIOC	LCTT
IOI	COMIOC	DUPLICATE ENTRYPOINT
IOICRT	COMIOC	
IOICRT	COMIOC	DUPLICATE ENTRYPOINT
ITI	TD.INSTL	COMIOC
ITI	TD.INSTL	DUPLICATE ENTRYPOINT
JACC	????????	BLKDEBLK
JCIJPL	????????	BLKDEBLK
JCIJPC	????????	BLKDEBLK
JCIJSCRL	????????	BLKDEBLK
JCIJNUM	????????	BLKDEBLK
JMTRTEMC	????????	BLKDEBLK
LPI	TD.INSTL	COMIOC
LPI	TD.INSTL	DUPLICATE ENTRYPOINT
LUNITBL	????????	BLKDEBLK BLKDEBLK
MPXBOOT	MPXBOOT	
MSI	TD.INSTL	COMIOC
MSI	TD.INSTL	DUPLICATE ENTRYPOINT
MTC	LCTT	SYSTINST
MTI	LCTT	COMIOC
	TD.INSTL	DUPLICATE ENTRYPOINT

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
OPEN	????????	BLKDEBLK
SEND	TD.INSTL	COMIOC COMIOC
OPSEND	TD.INSTL	DUPLICATE ENTRYPOINT
PACK	BLKDEBLK	
PACKC	BLKDEBLK	
PACKD	BLKDEBLK	
PACKO	BLKDEBLK	TSKMON
PARM	????????	BLKDEBLK BLKDEBLK BLKDEBLK BLKDEBLK TSKMON
PICK	BLKDEBLK	
PICKC	BLKDEBLK	
PICKD	BLKDEBLK	
PICKI	BLKDEBLK	
READLJ	????????	BLKDEBLK
RETURN	????????	TSKMON
S	COMIOC	
SEL	COMIOC	DUPLICATE ENTRYPOINT
SELI	TD.INSTL	COMIOC
SELI	TD.INSTL	DUPLICATE ENTRYPOINT
SIO	COMIOC	SYSTINST
SIO	COMIOC	DUPLICATE ENTRYPOINT
SIOC	SYSTINST	COMIOC COMIOC
SIOC	DSKUTIL	DUPLICATE ENTRYPOINT
SPG	COMIOC	
SPG	COMIOC	DUPLICATE ENTRYPOINT
START	TD.INSTL	
START	TD.INSTL	DUPLICATE ENTRYPOINT
STDFEXPS	????????	BLKDEBLK BLKDEBLK

ITEMIZE

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

STOPSEG	????????	BLKDEBLK BLKDEBLK
SYSABRT	TO.INSTL	
SYSABRT	TO.INSTL	DUPLICATE ENTRYPOINT
TSCHED	????????	BLKDEBLK
TSKMON	TSKMON	
ULOC	????????	BLKDEBLK
UST	????????	BLKDEBLK
UTYP1	????????	BLKDEBLK
WRITLU	????????	BLKDEBLK

ITEMIZE COMPLETE.

*SAVEPF(62, BLD-PLAN.LST, SYSL, 01,)

*EOJ BLD-PLAN

M P - 3 2 P R O D U C T S E T

L I B

This set of products is common to the military MPP and commercial MP-32 hardware. The source Oldpl (PRODUCT-SET-Pl,MPMP,xx,****) is obtained from CDC Government Systems Division CEM Coordinator. This Oldpl is modified by the Pl-PL-SPS.BLD job to become the base for the MP-32 usage of the products.

The Products CALCOMP, EDIT, ENFRPT, and FMT are not used on the MP-32.

LIBO owner last dumped on _____

LIBB owner last dumped on _____

File Name	Description	Last Build
product-set-pl,lib0,__,lib0	GSD PSRed Oldpl	-----
pl-pl-gps.bld,lib0,01,lib0	Build next GSD PSR Level PL	-----
pl-pl-gps.lst,lib1,01,lib1	Listing of above .bld job	
product-set-pl,lib0,__,lib0	Next GSD PSR Level PL	*1
std-mods.pl,lib0,__,lib0	Oldpl of Mods to GSD Pl	-----
std-mds-pl.bld,lib0,01,lib0	Build next STD PSR Level Modpl	-----
std-mds-pl.lst,lib1,01,lib1	Listing of above .bld job	
std-mods.pl,lib0,__,lib0	Next STD PSR Level MODPL	*3
pl-pl-sps.bld,lib0,01,lib0	Build next STD PSR Level PL	-----
pl-pl-sps.lst,lib1,01,lib1	Listing of above .bld job	
pl.pl,lib0,__,lib0	STD PSRed PL	-----
pl-pl-loc.bld,lib0,01,lib0	Build PL with Local Mods	-----
pl-pl-loc.lst,lib1,01,lib1	Listing of above .bld job	
pl.pl,libb,ZZ,libb	Local (working) PL	-----
catlist.bld,libb,01,libb	Build CATLIST	-----
catlist.lst,lib1,01,lib1	Listing of above .bld job	
lib-catlist.rel,libd,01,libd		-----
lib-catlist.bld,libd,01,libd	Build Abs CATLIST	-----
lib-catlist.lst,lib1,01,lib1	Listing of above .bld job	
lib-catlist.abs,libd,01,libd		-----
copyl.bld,libb,01,libb	Build COPYL	-----
copyl.lst,lib1,01,lib1	Listing of above .bld job	
lib-copyl.rel,libd,01,libd		-----
lib-copyl.bld,libd,01,libd	Build Abs COPYL	-----
lib-copyl.lst,lib1,01,lib1	Listing of above .bld job	
lib-copyl.abs,libd,01,libd		-----
cosy.bld,libb,01,libb	Build COSY	-----
cosy.lst,lib1,01,lib1	Listing of above .bld job	
lib-cosy.rel,libd,01,libd		-----
lib-cosy.bld,libd,01,libd	Build Abs COSY	-----
lib-cosy.lst,lib1,01,lib1	Listing of above .bld job	
lib-cosy.abs,libd,01,libd		-----
fmp.bld,libb,01,libb	Build FMP	-----
fmp.lst,lib1,01,lib1	Listing of above .bld job	
lib-fmp.rel,libd,01,libd		-----
lib-fmp.bld,libd,01,libd	Build Abs FMP	-----
lib-fmp.lst,lib1,01,lib1	Listing of above .bld job	

```

lib-fmp.abs,libd,01,libd
pcc.bid,libb,01,libb          Build PCC          -----
pcc.lst,libl,01,libl         Listing of above .bid job
lib-pcc.rel,libd,01,libd
prelib.bid,libb,01,libb       Build PRELIB       -----
prelib.lst,libl,01,libl      Listing of above .bid job
lib-prelib.rel,libd,01,libd
lib-prelib.bid,libd,01,libd   Build Abs PRELIB   -----
lib-prelib.lst,libl,01,libl   Listing of above .bid job
lib-prelib.abs,libd,01,libd
util.bid,libb,01,libb        Build UTIL         -----
util.lst,libl,01,libl        Listing of above .bid job
lib-util.rel,libd,01,libd
lib-util.bid,libd,01,libd    Build Abs UTIL     -----
lib-util.lst,libl,01,libl    Listing of above .bid job
lib-util.abs,libd,01,libd    -----

```

```

bid-plan.txt,libb,01,libb    Contains this text
bid-plan.run,libb,01,libb    Produce Product Build Doc

```

```

update.pl,lib0,__,lib0       GSD PSRed Oldpl   -----
upd-pl-gps.bid,lib0,01,lib0   Build next GSD PSR Level PL
upd-pl-gps.lst,libl,01,libl   Listing of above .bid job
update.pl,lib0,__,lib0       Next GSD PSR Level PL      *2

upd-pl-sps.bid,lib0,01,lib0   Build next STD PSR Level PL
upd-pl-sps.lst,libl,01,libl   Listing of above .bid job
update.pl,lib0,__,lib0       STD PSRed PL
upd-pl-loc.bid,lib0,01,lib0   Build PL with Local Mods   -----
upd-pl-loc.lst,libl,01,libl   Listing of above .bid job
update.pl,libb,ZZ,libb        Local (working) PL
update.bid,libb,01,libb       Build UPDATE        -----
update.lst,libl,01,libl       Listing of above .bid job
lib-update.rel,libd,01,libd
lib-update.bid,libd,01,libd   Build Abs UPDATE     -----
lib-update.lst,libl,01,libl   Listing of above .bid job
lib-update.abs,libd,01,libd   -----

```

Integration Instructions for next release:

1. The current base is not the GSD pl. Use the Oldpl available from GSD. The PSR Level 57 GSD Oldpl is available at SVLOPS.
2. Eliminate the UPDATE.PL and use the source from the GSD PL.
3. Add any PSR code not included on the GSD tape.

NOTES:

*1 This is a temporary Oldpl. It is build by pl-pl-gps.bid and then, when all is well, the first Oldpl is released and the second Oldpl becomes the base Oldpl. The pl-pl-gps.bid job is then modified to use the new PSR Level as a base and produce the next PSR Level.

Normally, the temporary Oldpl does not appear on Release Tapes.

*2 Same as #1 above; for update.pl.

*3 Same as #1 above; for std-mods.pl.

STOP*ENDST*
#OPEN(10,P1.PL,LIBB,ZZ, ,R)
#XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/21/84
 14:31:55

OLDPL AUDIT:		TOTAL	YANKED	ACTIVE	RUNNING
DECK	YANK\$\$\$	1	0	1	1
DECK	MICRO	179	0	179	180
DECK	UASM	853	0	853	1033
DECK	CTABLE	39	0	39	1072
DECK	CCHAIN	101	0	101	1173
DECK	LIST	236	0	236	1409
DECK	LOOKUP	394	0	394	1803
DECK	STABLE	169	0	169	1972
DECK	FIND	40	0	40	2012
DECK	VALUE	71	0	71	2083
DECK	CPUNCH	41	0	41	2124
DECK	PCC	4612	0	4371	6495
DECK	PRELIBOS	6287	0	6198	12693
DECK	UTILITY	1415	0	1414	14107
DECK	FMP	3763	0	3739	17846
DECK	COPYL	489	0	489	18335
DECK	COSY	3136	0	3135	21470
DECK	CATLIST	916	0	892	22362
DECK	HISTORY	58	0	58	22420

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED
P164	97	PCC
P165	111	PCC
P166	290	PCC
P179	17	PRELIBOS
P261	7	CATLIST
STD001	5	UTILITY COSY HISTORY
STD002	274	PRELIBOS HISTORY
STD003	33	FMP HISTORY
STD004	20	FMP HISTORY
STD005	392	PCC HISTORY
STD006	40	PCC HISTORY
STD007	48	PRELIBOS HISTORY
STD008	253	PCC HISTORY
STD009	7	PCC HISTORY
STD010	38	FMP HISTORY
CATLIST1	43	CATLIST HISTORY
CATLIST2	9	CATLIST HISTORY
LEV-AA	2	HISTORY
LEV-AB	3	HISTORY
LEV-AC	3	HISTORY

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	
MICRO	0	
UASM	0	
CTABLE	0	

CCHAIN	0					
LIST	0					
LOOKUP	0					
STABLE	0					
FIND	0					
VALUE	0					
CPUNCH	0					
PCC	0	P165	P166	STD005	STD008	P164
		STD009	STD006			
PRELIBOS	0	STD002	P179	STD007		
UTILITY	0	STD001				
FMP	0	STD003	STD010	STD004		
COPYL	0					
COSY	0	STD001				
CATLIST	0	CATLIST1	P261	CATLIST2		
HISTORY	0	LEV-AC	LEV-AB	LEV-AA	CATLIST2	CATLIST1
		STD010	STD009	STD008	STD007	STD006
		STD005	STD004	STD003	STD002	STD001

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK DECKS CALLING THE COMMON DECK

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK COMMON DECKS CALLED BY THE DECK

NULL IDENTIS:

NULL DECKS:

COMMON DECKS NOT CALLED:

XREFJP FINISHED.

*CLOSE(10)

*LISTF

*JOB(ID=P1-PL-GPS.BLD)

*SCHED(CM=9,PL=65000,TL=9999,SCR=150)

#

This job adds Government Systems Division (formerly Aerospace Systems
Division) PSRs to the GSD Dldpl at a given level and produces a
higher PSR level Dldpl.

#

*OPEN(10,PRODUCT-SET-P1,LIB0,??,LIB0,R)

UPDATE(F,P=10,N=11,=/,O=A24)

/FINIS

*SAVEPF(11,PRODUCT-SET-P1,LIB0,**,LIB0)

*SAVEPF(62,P1-PL-GPS.LST,LIBL,01,LIBL)

*EQJ

```
*JOB(ID=P1-PL-SPS.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
#
# This job adds Systems Technology Division modifications to the
# "PRODUCT-SET-P1" Dtdpl of Government Systems Division.
#
*OPEN(10,STD-MODS.PL,LIBO,AC,LIBO,R)
*UPDATE(O,P=10,*=+,C=11)
+COMPILE P1-PL
+FINIS
*REWIND(11)
*COPYCF(11,12,1,1,80) # REMOVE SEQUENCE NUMBERS
*REWIND(12)
*CLOSE(10)
*CLOSE(11)
*OPEN(13,PRODUCT-SET-P1,LIBO,??,LIBO,R)
*UPDATE(I=12,P=13,N=14,*=/)
*SAVEPF(14,P1.PL,LIBO,AC,LIBO)
*SAVEPF(62,P1-PL-SPS.LST,LIBL,01,LIBL)
*EDJ
```

```
*job(id=p1-pl-loc,blid)
*sched(cm=10,tl=9999,pl=60000,scr=100)
#
# This job adds LOCAL Mods to the STD PSRed OLDPL and builds an
# OLDPL called: P1.PL,LIBB,ZZ,LIBB
#
*open(1,p1.pl,lib0,AC,lib0,r)
*update(p=1,n=2,*=/)
// Place local modifications here.
/FINIS
*savepf(2,p1.pl,libb,ZZ,libb)
*savepf(62,p1-pl-loc.lst,lib1,01,lib1)
*eof
```

```
*JOB(ID=CATLIST.BLD)
*SCHED(CM=9,TL=99999,PL=60000,SCR=100)
#
# This job builds the MPX/OS V3 File Label Listing program CATLIST.
#
*OPEN(10,P1,PL,LIBB,ZZ,LIBB,R)
*UPDATE(C,P=10,Q,*/,O=A24)
/C CATLIST
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*SAVEPF(57,LIB-CATLIST.REL,LBLD,01,LBLD)
*SAVEPF(62,CATLIST.LST,LIBL,01,LIBL)
*EOJ
```

```
*JOB(ID=LIB-CATLST.BLD)
*SCHED(CM=3,TL=99999,PL=1000,SCR=100)
*OPEN(1,LIB-CATLST.REL,LBLD,01,LBLD,R)
*OPEN(2,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(LIB-CATLST.ABS,LBLD,01,LBLD)
*ALLOCATE(LIB-CATLST.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,LIB-CATLST.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3)
*ABS(10)
*CLOSE(10)
*RELEASE(LIB-CATLST.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,LIB-CATLST.LST,LBLL,01,LBLL)
*EOJ
```



```
*JOB(ID=COPYL.BLD)
*SCHED(CM=9,TL=99999,PL=2000,SCR=100)
*OPEN(10,PL.PL,LIBB,ZZ,LIBB,R)
*DATE(C,P=10,0,*=/)
/COPYL
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*SAVEPF(57,LIB-COPYL.REL,LBLD,01,LBLD)
*SAVEPF(62,COPYL.LST,LIBL,01,LIBL)
*EOJ
```

```
*JOB(ID=LIB-COPYL.BLD)
*SCHED(CM=3,TL=99999,PL=1000,SCR=100)
*OPEN(1,LIB-COPYL.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(LIB-COPYL.ABS,LBLD,01,LBLD)
*ALLOCATE(LIB-COPYL.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,LIB-COPYL.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(LIB-COPYL.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,LIB-COPYL.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=COSY.BLD)
*SCHED(CM=9,TL=99999,PL=60000,SCR=100)
*OPEN(10,PL,PL,LIBB,ZZ,LIBB,R)
*DATE(C,P=10,Q,*=/)
/C COSY
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*SAVEPF(57,LIB-COSY.REL,LBLD,01,LBLD)
*SAVEPF(62,COSY.LST,LIBL,01,LIBL)
*EOJ
```

```
*JOB(ID=LIB-COSY.BLD)
*SCHED(CM=4,TL=99999,PL=1000,SCR=100)
*OPEN(1,LIB-COSY.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(LIB-COSY.ABS,LBLD,01,LBLD)
*ALLOCATE(LIB-COSY.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,LIB-COSY.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(LIB-COSY.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,LIB-COSY.LST,LBLL,01,LBLL)
*EQJ
```

```
*JOB(ID=FMP,BLD)
*SCHED(CM=9,TL=99999,PL=60000,SCR=100)
*OPEN(10,P1.PL,LIBB,ZZ,LIBB,R)
*DATE(C,P=10,Q,*=/)
/CFMP
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*SAVEPF(57,LIB-FMP.REL,LBLD,01,LBLD)
*SAVEPF(62,FMP.LST,LIBL,01,LIBL)
*EQJ
```

```
*JOB(ID=LIB-FMP.BLD)
*SCHED(CM=4,TL=99999,PL=1000,SCR=100)
*OPEN(1,LIB-FMP.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(LIB-FMP.ABS,LBLD,01,LBLD)
*ALLOCATE(LIB-FMP.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,LIB-FMP.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(LIB-FMP.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,LIB-FMP.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=PCC.BLD)
*SCHED(CM=9,TL=99999,PL=60000,SCR=100)
*OPEN(10,PL.PL,LIBB,ZZ,LIBB,R)
*DATE(C,P=10,Q,*=/)
/C PCC
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*SAVEPF(57,LIB-PCC.REL,LBLD,01,LBLD)
*SAVEPF(62,PCC.LST,LIBL,01,LIBL)
*EOJ
```

```
*JOB(ID=PRELIB,BLD)
*SCHED(CM=9,TL=99999,PL=60000,SCR=100)
*OPEN(10,P1,PL,LIBB,ZZ,LIBB,R)
*UPDATE(C,P=10,Q,*=/)
/COMPRELIBOS
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*SAVEPF(57,LIB-PRELIB.REL,LBLD,01,LBLD)
*SAVEPF(62,PRELIB.LST,LIBL,01,LIBL)
*EOJ
```



```
*JOB(ID=LIB-PRELIB.BLD)
*SCHED(CM=6,TL=99999,PL=1000,SCR=100)
*OPEN(1,LIB-PRELIB.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(LIB-PRELIB.ABS,LBLD,01,LBLD)
*ALLOCATE(LIB-PRELIB.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,LIB-PRELIB.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(LIB-PRELIB.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,LIB-PRELIB.LST,LBLL,01,LBLL)
*EDJ
```

```
*JOB(ID=UTIL.BLD)
*SCHED(CM=9,TL=99999,PL=60000,SCR=100)
*OPEN(10,P1.PL,LIBB,ZZ,LIBB,R)
*UPDATE(C,P=10,Q,*=/,O=A24)
/UTILITY
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*SAVEPF(57,LIB-UTIL.REL,LBLD,01,LBLD)
*SAVEPF(62,UTIL.LST,LIBL,01,LIBL)
*EOJ
```

```
*JOB(ID=LIB-UTIL.BLD)
*SCHED(CM=3,TL=99999,PL=1000,SCR=100)
*OPEN(1,LIB-UTIL.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(LIB-UTIL.ABS,LBLD,01,LBLD)
*ALLOCATE(LIB-UTIL.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,LIB-UTIL.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(LIB-UTIL.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,LIB-UTIL.LST,LBLL,01,LBLL)
*EOJ
```

STOP*ENDST*
*ITEMIZE

PROCESSING: LIB-CATLIST.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	CATLIST	731B54E5	02AE	REL		MM/DD/YY	HH:MM:SS
	ENTRY:		CATLIST				
	EXTERNAL:		PARM	PARM	DATE	PARM	TIME
			PACKD	OPEN	READLU	UST	OPENMEM
			ULOC	CLOSE	PACK	PACKD	PACKC
			ABORT	BSY	DEVICE	PICK	PICKC
			PICKD	PICKI	WRITLU		

PROCESSING: LIB-COPYL.REL,LBLD

2.	COPYL	704088B5	06D1	REL		MM/DD/YY	HH:MM:SS
	ENTRY:		COPYL				
	EXTERNAL:		PARM	PACK	REWD	UTYP	PARM
			PICKD	PACKD	PICK	PICKC	PACKC
			WEOF	PARM			

PROCESSING: LIB-COSY.REL,LBLD

3.	COSY	9C4071E0	1AA6	REL		MM/DD/YY	HH:MM:SS
	ENTRY:		COSY				
	EXTERNAL:		PARM	ABORT	DATE	PARM	TIME
			OPENMEM	UTYP	PARM	PACKC	PARM
			SEOF	REWD	ULOC	PACKD	BKSP
			UST	PICKC	WEOF	PARM	PACK
			WRITLU	PACKD	READLU	PICKD	PICKI
			PICK				

PROCESSING: LIB-FMP.REL,LBLD

4.	FMP	994286C5	08FA	REL		MM/DD/YY	HH:MM:SS
	ENTRY:		FMP				
	EXTERNAL:		DATE	PARM	PARM	TIME	OPEN
			PARM	DEVICE	ULOC	READLU	UST
			CLOSE	WRITLU	PARM	REWD	SEOF
			ALLOCATE	RELEASE	MODIFY	WEOF	BKSP
			PACK	PICK	PARM	UNLD	

PROCESSING: LIB-PCC.REL,LBLD

5.	PCC	8F4C8FFC	0CC3	REL		MM/DD/YY	HH:MM:SS
	ENTRY:		PCC				
	EXTERNAL:		PARM	PFAULT	PORT	DEVICEO	PARM
			ABORT	WRITLU	UST	PACKD	PACKC

ITEMIZE
ITEM NAME

CHECKSUM

REC LEN TYPE

09/18/84 13:34:23
DATE TIME

CLOSE	PACK	PARM	ALLOCATE	OPEN
PICKD	PICK	PICKC	PACKD	RELEASE
READLU	BSY	CLEAR		

PROCESSING: LIB-PRELIB.REL,LBLD

6.	PRELIB	66185E5E	3035	REL	MM/DD/YY	HH:MM:SS		
	ENTRY:	PRELIB						
	EXTERNAL:	PARM	UTYP	PARM	PARM	REWD		
		DATE	TIME	PFAULT	OPENMEM	PARM		
		DEVICE	PARM	SEOF	PICKC	PACKC		
		ULDC	WEOF	READLU	UST	PACK		
		PARM	ABORT	WRITLU	PACKD	PACKD		
		PICKD	PICKI	PICK				

PROCESSING: LIB-UTIL.REL,LBLD

7.	UTILITY	5F07323F	2354	REL	MM/DD/YY	HH:MM:SS		
	ENTRY:	UTIL						
	EXTERNAL:	PICK	PICKD	PACKD	READLU	PACKD		
		UTYP	PARM	WEOF	UST	PACK		
		WRITLU	PICKC	PACKC	REWD	SEOF		
		BKSP	PARM	PARM	PARM	PARM		

ITEMIZE

09/18/84 13:34:25

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
ABORT	????????	CATLIST	COSY	PCC	PRELIB	
ALLOCATE	????????	FMP	PCC			
BKSP	????????	COSY	FMP	UTILITY		
BSY	????????	CATLIST	PCC			
CATLIST	CATLIST					
CLEAR	????????	PCC				
CLOSE	????????	CATLIST	FMP	PCC		
COPYL	COPYL					
COSY	COSY					
DATE	????????	CATLIST	COSY	FMP	PRELIB	
DEVICE	????????	CATLIST	FMP	PRELIB		
DEVICEQ	????????	PCC				
FMP	FMP					
MODIFY	????????	FMP				
OPEN	????????	CATLIST	FMP	PCC		
OPENMEM	????????	CATLIST	COSY	PRELIB		
PACKD	????????	CATLIST	COPYL	COSY	PCC	PRELIB
		UTILITY				
PACK	????????	CATLIST	COPYL	COSY	FMP	PCC
		PRELIB	UTILITY			
PACKQ	????????	CATLIST	COSY	PCC	PRELIB	UTILITY
PACKC	????????	CATLIST	COPYL	COSY	PCC	PRELIB
		UTILITY				
PARM	????????	CATLIST	CATLIST	CATLIST	COPYL	COPYL
		COPYL	COSY	COSY	COSY	COSY
		COSY	FMP	FMP	FMP	FMP
		FMP	PCC	PCC	PCC	PRELIB
		PRELIB	PRELIB	PRELIB	PRELIB	PRELIB
		UTILITY	UTILITY	UTILITY	UTILITY	UTILITY
PCC	PCC					

ITEMIZE

09/18/84 13:34:25

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
PFAULT	????????	PCC	PRELIB			
PICK	????????	CATLIST PRELIB	COPYL UTILITY	COSY	FMP	PCC
PICKC	????????	CATLIST UTILITY	COPYL	COSY	PCC	PRELIB
PICKD	????????	CATLIST UTILITY	COPYL	COSY	PCC	PRELIB
PICKI	????????	CATLIST	COSY	PRELIB		
PORT	????????	PCC				
PRELIB	PRELIB					
READLU	????????	CATLIST UTILITY	COSY	FMP	PCC	PRELIB
RELEASE	????????	FMP	PCC			
REWD	????????	COPYL	COSY	FMP	PRELIB	UTILITY
SEOF	????????	COSY	FMP	PRELIB	UTILITY	
TIME	????????	CATLIST	COSY	FMP	PRELIB	
UNLC	????????	CATLIST	COSY	FMP	PRELIB	
UNLD	????????	FMP				
UST	????????	CATLIST UTILITY	COSY	FMP	PCC	PRELIB
UTIL	UTILITY					
UTYP	????????	COPYL	COSY	PRELIB	UTILITY	
WEOF	????????	COPYL	COSY	FMP	PRELIB	UTILITY
WRITLU	????????	CATLIST UTILITY	COSY	FMP	PCC	PRELIB

ITEMIZE COMPLETE.

*OPEN(10,UPDATE.PL,LIBB,ZZ, ,R)

*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/21/84
 15:49:11

OLDPL AUDIT: TOTAL YANKED ACTIVE RUNNING

DECK	YANK\$\$\$	2	0	2	2
DECK	UPDATE	187	0	158	160
COMDECK	BLKSIZE	5	0	3	163
COMDECK	BP	3	0	3	166
COMDECK	CALLERDR	3	0	3	169
COMDECK	CCCCCCCC	4	0	4	173
COMDECK	CCDATA	11	0	11	184
COMDECK	CSIPTR	5	0	4	188
COMDECK	CTAB	3	0	3	191
COMDECK	DIRDEF	3	0	3	194
COMDECK	DV2NLF	3	0	3	197
COMDECK	DVCODES	5	0	5	202
COMDECK	ERORDATA	3	0	3	205
COMDECK	ETMASK	3	0	3	208
COMDECK	FILEDATA	3	0	3	211
COMDECK	HBITS	3	0	3	214
COMDECK	HDATA	3	0	3	217
COMDECK	HMASKS	3	0	3	220
COMDECK	IDMASK	3	0	3	223
COMDECK	IDNLIST	3	0	3	226
COMDECK	INPUNIT	3	0	3	229
COMDECK	IOMASK	3	0	3	232
COMDECK	LLDATA	3	0	3	235
COMDECK	LUNR	3	0	3	238
COMDECK	MODTABS	3	0	3	241
COMDECK	NCDKLIST	3	0	3	244
COMDECK	NCPW	3	0	3	247
COMDECK	NLBITS	9	0	9	256
COMDECK	NPLRDATA	5	0	3	259
COMDECK	NPLWDATA	5	0	3	262
COMDECK	OBLKNUM	3	0	3	265
COMDECK	OCDKLIST	3	0	3	268
COMDECK	OPLRDATA	5	0	3	271
COMDECK	PASTN	3	0	3	274
COMDECK	PLHEADER	3	0	3	277
COMDECK	PURGYANK	3	0	3	280
COMDECK	PYTABS	3	0	3	283
COMDECK	RITEOPTS	5	0	5	288
COMDECK	SCIDATA	3	0	3	291
COMDECK	SEARCH	3	0	3	294
COMDECK	SNMASK	3	0	3	297
COMDECK	SPTR	5	0	3	300
COMDECK	TFLUN	3	0	3	303
COMDECK	TFRWDATA	5	0	3	306
COMDECK	TLDATA	3	0	3	309
COMDECK	ADFI	3	0	3	312
COMDECK	CACN	3	0	3	315
DECK	ALLOCL	209	0	201	516
DECK	ALLOCL2	73	0	73	589
DECK	APPLY	243	0	226	815
DECK	BCSF	56	0	56	871
DECK	BPYTAB	98	0	93	964
DECK	CDIRTV	82	0	73	1037

DECK	CDNAME	36	0	35	1072
DECK	CID	42	0	40	1112
DECK	COPY	42	0	42	1154
DECK	EROR	46	0	44	1198
DECK	IFILES	196	0	153	1351
DECK	MP1	130	0	118	1469
DECK	MP2	400	0	368	1837
DECK	PCCARD	145	0	142	1979
DECK	PCR	82	0	79	2058
DECK	RCL	78	0	78	2136
DECK	RDBLOCK	52	0	36	2172
DECK	RDLIN	60	0	48	2220
DECK	RITE	143	0	140	2360
DECK	RPLT	77	0	67	2427
DECK	SAF	116	0	109	2536
DECK	SCY	111	0	97	2633
DECK	SDIRE	23	0	23	2656
DECK	SEQNUM	55	0	55	2711
DECK	SID	139	0	135	2846
DECK	SQZ	41	0	41	2887
DECK	STMGR	29	0	1	2888
DECK	TERM	247	0	194	3082
DECK	UNSQZ	34	0	34	3116
DECK	UPD8	78	16	53	3169
DECK	VCN	33	0	33	3202
DECK	WRBLOCK	42	0	29	3231
DECK	WRLIN	35	0	27	3258
DECK	XCDK	95	0	84	3342
DECK	XIS	52	0	51	3393
DECK	HISTORY	15	0	15	3408

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED				
U001BF	338	UPDATE	ALLOCI	ALLOCI2	CDNAME	CID
		EROR	IFILES	MP1	MP2	RITE
		SAF	SID	TERM	UPD8	
P140	353	UPDATE	BLKSIZE	NPLRDATA	NPLWDATA	DPLRDATA
		TFRWDATA	ALLOCI	ALLOCI2	BPYTAB	IFILES
		MP1	MP2	PCR	RITE	RPLT
		SAF	SCY	SID	TERM	WRBLOCK
		WRLIN				
P141	274	SPTR	ALLOCI	IFILES	MP1	MP2
		RDBLOCK	RDLIN	RPLT	SAF	SCY
		SID	STMGR	UPD8	XCDK	
P129	44	TERM				
P135	11	MP2	SAF	UPD8		
P145	17	UPDATE	APPLY	SAF	SID	TERM
		UPD8				
P146	1	UPD8				
P136	7	UPDATE	SCY	SID		
P154	12	ALLOCI	APPLY	MP2	XIS	
P155	9	APPLY	MP2			
P160	4	APPLY				
P163	3	APPLY				
P167	3	SAF				
P171	72	UPDATE	CCDATA	NLBITS	ALLOCI	APPLY
		BPYTAB	CDIRTY	MP2	PCCARD	TERM
P172	12	CSIPTR	APPLY	MP2		
P183	2	SID				
P184	4	SID				

P189	28	UPDATE	APPLY	MP2	RCL	RITE
P204	3	MP2				
P205	16	UPD8				
P213	1	APPLY				
P240	2	APPLY				
UPDATE1	5	YANK\$\$\$	HISTORY			
LEV-AA	2	HISTORY				
LEV-AB	3	HISTORY				
LEV-AC	3	HISTORY				

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	UPDATE1
UPDATE	147	U0018F P171 P189 P140 P136
		P145
BLKSIZE	3	P140
BP	3	
CALLEROR	3	
CCCCCCCC	4	
CCDATA	9	P171
CSIPTR	3	P172
CTAB	3	
DIRDEF	3	
DV2NLF	5	
DVCODES	3	
ERORDATA	3	
ETMASK	3	
FILEDATA	3	
HBITS	3	
HDATA	3	
HMASKS	3	
IDMASK	3	
IDNLIST	3	
INPUNIT	3	
IOMASK	3	
LLDATA	3	
LUNR	3	
MODTABS	3	
NCDKLIST	7	
NCPW	3	
NLBITS	3	P171
NPLRDATA	3	P140
NPLWDATA	3	P140
OBLKNUM	3	
OCDKLIST	3	
OPLRDATA	3	P140
PASTN	3	
PLHEADER	3	
PURGYANK	5	
PYTABS	3	
RITEOPTS	3	
SCIDATA	3	
SEARCH	3	
SNMASK	3	
SPTR	3	P141
TFLUN	3	
TFRWDATA	81	P140
TLDATA	24	
ADFI	214	
CACN	56	

ALLOCI	89	U001BF	P140	P171	P141	P154
ALLOCI2	73	U001BF	P140			
APPLY	20	P145	P171	P189	P160	P213
		P240	P154	P155	P163	P172
BCSF	36					
BPYTAB	43	P140	P171			
CDIRTV	65	P171				
CDNAME	110	U001BF				
CID	345	U001BF				
COPY	0					
EROR	140	U001BF				
IFILES	79	U001BF	P140	P141		
MP1	73	P140	P141	U001BF		
MP2	22	U001BF	P140	P154	P135	P172
		P204	P141	P155	P171	P189
PCCARD	45	P171				
PCR	140	P140				
RCL	70	P189				
RDBLOCK	109	P141				
RDLINE	97	P141				
RITE	23	P140	P189	U001BF		
RPLT	55	P141	P140			
SAF	127	P141	P140	P167	P135	P145
		U001BF				
SCY	41	P141	P140	P136		
SDIRE	29					
SEQNUM	101					
SID	34	P141	P140	P183	P145	P184
		P136	U001BF			
SQZ	50					
STMGR	33	P141				
TERM	19	U001BF	P140	P129	P171	P145
UNSQZ	27					
UPDB	76	P141	P135	P145	P146	U001BF
		P205				
VCN	50					
WRBLOCK	3	P140				
WRLINE	338	P140				
XCDK	3	P141				
XIS	353	P154				
HISTORY	274	LEV-AC	LEV-AB	LEV-AA	UPDATE1	

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK	DECKS CALLING THE COMMON DECK					
BLKSIZE	ALLOCI	IFILES	TERM	WRLINE		
BP	ALLOCI	APPLY	MP2	RPLT		
CALLEROR	ALLOCI	APPLY	CDNAME	EROR	MP1	
	MP2	SAF	SCY	SID	XIS	
CCCCCCCC	ALLOCI	ALLOCI2	APPLY	BCSF	BPYTAB	
	CDIRTV	CDNAME	CID	COPY	EROR	
	IFILES	MP1	MP2	PCCARD	PCR	
	RCL	RDBLOCK	RDLINE	RITE	RPLT	
	SAF	SCY	SDIRE	SEQNUM	SID	
	SQZ	TERM	UNSQZ	UPDB	VCN	
	WRBLOCK	WRLINE	XCDK	XIS		
CCDATA	ALLOCI	BCSF	COPY	EROR	IFILES	
	MP2	PCCARD	PCR	RCL	RDLINE	
	RITE	TERM	UPDB			
CSIPTR	ALLOCI	APPLY	BPYTAB	COPY	IFILES	
	MP2	PCR	RITE	SAF	SCY	

CTAB	SID	TERM			
DV2NLF	ALLOC1	CID	PCCARD		
	ALLOC1	IFILES	MP2	PCR	SAF
	SID				
DVCODES	ALLOC1	APPLY	BCSF	BPYTAB	CDIRTV
	CDNAME	IFILES	MP1	MP2	PCR
	RCL	RDLINE	RITE	RPLT	SAF
	SCY	SID	UPDB	XCDK	
ERORDATA	ALLOC1	EROR	MP2	RITE	TERM
ETMASK	ALLOC1	APPLY	MP2		
HBITS	ALLOC1	APPLY	BPYTAB	COPY	IFILES
	MP2	PCR	RDLINE	SAF	SCY
	SID	TERM			
HDATA	ALLOC2	APPLY	BPYTAB	COPY	IFILES
	MP2	PCR	RDLINE	RITE	RPLT
	SAF	SCY	SEQNUM	SID	SQZ
	TERM	WRLINE	XCDK		
HMASKS	ALLOC1	APPLY			
IDMASK	ALLOC1	APPLY	BCSF	MP1	MP2
	RPLT	SCY	SEQNUM		
IDNLIST	ALLOC2	APPLY	BCSF	BPYTAB	IFILES
	MP2	PCR	RITE	RPLT	SAF
	SEQNUM	SID	TERM	XIS	
INPUNIT	ALLOC1	PCCARD	RCL	SAF	
IDMASK	ALLOC1	BCSF	MP1	MP2	RITE
	RPLT	SCY	TERM	XCDK	
LLDATA	ALLOC2	APPLY	BPYTAB	CDIRTV	CID
	COPY	EROR	IFILES	MP2	PCCARD
	RCL	RITE	RPLT	SAF	SCY
	SEQNUM	SID	SQZ	TERM	UNSQZ
	VCN	XIS			
LUNR	ALLOC1	SAF			
MODTABS	ALLOC2	APPLY	IFILES	MP1	MP2
	RPLT	SAF	SID		
NCDKLIST	ALLOC2	APPLY	BCSF	BPYTAB	IFILES
	MP2	PCR	TERM	UPDB	XCDK
NCPW	ALLOC1	SQZ			
NLBITS	ALLOC1	APPLY	BCSF	BPYTAB	CDNAME
	IFILES	MP2	TERM	XIS	
NPLRDATA	ALLOC2	IFILES	UPDB	XCDK	
NPLWDATA	ALLOC2	BPYTAB	IFILES	MP1	MP2
	PCR	RITE	SID	TERM	
OBLKNUM	ALLOC1				
DCDKLIST	ALLOC2	IFILES	MP2	SCY	UPDB
DPLRDATA	ALLOC2	COPY	IFILES	MP2	RPLT
	SCY	UPDB			
PASTN	ALLOC1	XIS			
PLHEADER	ALLOC2	IFILES	TERM		
PURGYANK	ALLOC1	APPLY	BPYTAB	MP1	MP2
PYTABS	ALLOC2	BCSF	BPYTAB	IFILES	MP2
RITEOPTS	ALLOC2	BPYTAB	MP1	MP2	PCCARD
	PCR	RCL	RITE	SID	UPDB
	XCDK				
SCIDATA	ALLOC2	RCL	RDLINE	RITE	RPLT
	SQZ	UNSQZ	WRLINE		
SEARCH	ALLOC1	APPLY	BCSF	BPYTAB	CDNAME
	CID	MP2	PCR	RITE	SAF
	SCY	SDIRE	SEQNUM	SID	XCDK
	XIS				
SNMASK	ALLOC1	APPLY	IFILES	MP2	RPLT
	SCY	SEQNUM			
SPTR	ALLOC1	XCDK			

TFRWDATA	ALLOCC2	IFILES	MPI	RPLT	SAF
	SCY	SID			
TLDATA	ALLOCC1	EROR	IFILES	MP1	MP2
	PCR	RITE	SID	TERM	
FILEDATA	ALLOCC1	IFILES	MPI	MP2	PCR
	RDLINE	RPLT	SCY	TERM	WRBLOCK
	XCDK				
ADFI	MP2	SAF	SID	UPD8	
CACN	APPLY	MP2	SID	UPD8	

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK	COMMON DECKS CALLED BY THE DECK				
ALLOCC1	CCCCCCC	BLKSIZE	BP	CALLEROR	CCDATA
	CSIPTR	CTAB	DV2NLF	DVCODES	ERORDATA
	ETMASK	FILEDATA	HBITS	HMASKS	IDMASK
	INPUNIT	IOMASK	LUNR	NCPW	NLBITS
	OBLKNUM	PASTN	PURGYANK	SEARCH	SNMASK
	SPTR	TLDATA			
ALLOCC2	CCCCCCC	HDATA	IDNLIST	LLDATA	MODTABS
	NCDKLIST	NPLRDATA	NPLWDATA	OCDKLIST	OPLRDATA
	PLHEADER	PYTABS	RITEOPTS	SCIDATA	TFRWDATA
APPLY	BP	CALLEROR	CSIPTR	DVCODES	ETMASK
	HBITS	HMASKS	IDMASK	NLBITS	PURGYANK
	SEARCH	SNMASK	HDATA	IDNLIST	LLDATA
	MODTABS	NCDKLIST	CACN	CCCCCCC	
BCSF	CCDATA	DVCODES	IDMASK	IOMASK	NLBITS
	SEARCH	IDNLIST	NCDKLIST	PYTABS	CCCCCCC
BPYTAB	CSIPTR	DVCODES	HBITS	NLBITS	PURGYANK
	SEARCH	HDATA	IDNLIST	LLDATA	NCDKLIST
	NPLWDATA	PYTABS	RITEOPTS	CCCCCCC	
CDIRTV	DVCODES	LLDATA	CCCCCCC		
CDNAME	CALLEROR	DVCODES	NLBITS	SEARCH	CCCCCCC
CID	CTAB	SEARCH	LLDATA	CCCCCCC	
COPY	CCDATA	HBITS	HDATA	OPLRDATA	LLDATA
	CSIPTR	CCCCCCC			
EROR	CALLEROR	CCDATA	ERORDATA	TLDATA	LLDATA
	CCCCCCC				
IFILES	BLKSIZE	CCDATA	CSIPTR	DV2NLF	DVCODES
	FILEDATA	HBITS	NLBITS	SNMASK	TLDATA
	HDATA	IDNLIST	LLDATA	MODTABS	NCDKLIST
	NPLRDATA	NPLWDATA	OCDKLIST	OPLRDATA	PLHEADER
	PYTABS	TFRWDATA	CCCCCCC		
MP1	CALLEROR	DVCODES	FILEDATA	IDMASK	IOMASK
	PURGYANK	TLDATA	MODTABS	NPLWDATA	RITEOPTS
	TFRWDATA	CCCCCCC			
MP2	BP	CALLEROR	CCDATA	CSIPTR	DV2NLF
	DVCODES	ERORDATA	ETMASK	FILEDATA	HBITS
	IOMASK	IOMASK	NLBITS	PURGYANK	SEARCH
	SNMASK	TLDATA	HDATA	IDNLIST	LLDATA
	MODTABS	NCDKLIST	NPLWDATA	OCDKLIST	OPLRDATA
	PYTABS	RITEOPTS	CACN	ADFI	CCCCCCC
PCCARD	CCDATA	CTAB	INPUNIT	LLDATA	RITEOPTS
	CCCCCCC				
PCR	CCDATA	CSIPTR	DV2NLF	DVCODES	FILEDATA
	HBITS	SEARCH	TLDATA	HDATA	IDNLIST
	NCDKLIST	NPLWDATA	RITEOPTS	CCCCCCC	
RCL	CCDATA	DVCODES	INPUNIT	LLDATA	RITEOPTS
	SCIDATA	CCCCCCC			
RDBLOCK	CCCCCCC				
RDLINE	CCDATA	DVCODES	FILEDATA	HBITS	HDATA

RITE	SCIDATA	CCCCCCC			
	CCDATA	CSIPTR	DVCODES	ERORDATA	IOMASK
	SEARCH	TLDATA	HDATA	IDNLIST	LLDATA
	NPLWDATA	RITEOPTS	SCIDATA	CCCCCCC	
RPLT	BP	DVCODES	FILEDATA	IDMASK	IOMASK
	SNMASK	HDATA	IDNLIST	LLDATA	MODTABS
	OPLRDATA	SCIDATA	TFRWDATA	CCCCCCC	
SAF	CALLEROR	CSIPTR	DV2NLF	DVCODES	HBITS
	INPUNIT	LUNR	SEARCH	HDATA	IDNLIST
	LLDATA	MODTABS	TFRWDATA	ADFI	CCCCCCC
SCY	CALLEROR	CSIPTR	DVCODES	FILEDATA	HBITS
	IDMASK	IDMASK	SEARCH	SNMASK	HDATA
	LLDATA	OCCKLIST	OPLRDATA	TFRWDATA	CCCCCCC
SDIRE	SEARCH	CCCCCCC			
SEQNUM	IDMASK	SEARCH	SNMASK	HDATA	IDNLIST
	LLDATA	CCCCCCC			
SID	CALLEROR	CSIPTR	DV2NLF	DVCODES	HBITS
	SEARCH	TLDATA	HDATA	IDNLIST	LLDATA
	MODTABS	NPLWDATA	RITEOPTS	TFRWDATA	ADFI
	CACN	CCCCCCC			
SQZ	NCPW	HDATA	LLDATA	SCIDATA	CCCCCCC
TERM	BLKSIZE	CCDATA	CSIPTR	ERORDATA	FILEDATA
	HBITS	IOMASK	NLBITS	TLDATA	HDATA
	IDNLIST	LLDATA	NCDKLIST	NPLWDATA	PLHEADER
	CCCCCCC				
UNSQZ	LLDATA	SCIDATA	CCCCCCC		
UPD8	CCDATA	DVCODES	NCDKLIST	NPLRDATA	OCCKLIST
	OPLRDATA	RITEOPTS	ADFI	CACN	CCCCCCC
VCN	LLDATA	CCCCCCC			
WRBLOCK	FILEDATA	CCCCCCC			
WRLINE	BLKSIZE	HDATA	SCIDATA	CCCCCCC	
XCDK	DVCODES	FILEDATA	IOMASK	SEARCH	SPTR
	HDATA	NCDKLIST	NPLRDATA	RITEOPTS	CCCCCCC
XIS	CALLEROR	NLBITS	PASTN	SEARCH	IDNLIST
	LLDATA	CCCCCCC			

NULL IDENTS:

P164 P165 P166 P180 P179

NULL DECKS:

COMMON DECKS NOT CALLED:

TFLUN DIRDEF

XREFUP FINISHED.

*CLOSE(10)

*LISTF

*JOB(ID=UPD-PL-GPS.BLD)

*SCHED(CM=9,PL=65000,TL=9999,SCR=150)

#

This job adds Government Systems Division (formerly Aerospace Systems
Division) PSRs to the GSD Oldpl at a given level and produces a
higher PSR level Oldpl.

#

*OPEN(10,UPDATE.PL,LIB0,36,LIB0,R)

UPDATE(F,P=10,N=11,=/,O=A24)

/FINIS

*SAVEPF(11,UPDATE.PL,LIB0,**,LIB0,R)

*SAVEPF(62,UPD-PL-GPS.LST,LIBL,01,LIBL)

*EQJ

```
*JOB(ID=UPD-PL-SPS.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
#
# This job adds Systems Technology Division modifications to the
# portion of the "PRODUCT-SET-P1" Dldpl of GSD which contains
# the UPDATE product. This Dldpl(UPDATE.PL) was extracted from
# an early GSD release by STD. When the STD version of UPDATE
# is upgraded to current GSD PSR levels, the UPDATE product
# should be built from the P1.PL and this set of PLs/jobs deleted.
#
*OPEN(10,STD-MODS.PL,LIB0,AC,LIB0,R)
*UPDATE(Q,P=10,*=+,C=11)
+COMPILE UPD-PL
+FINIS
*REWIND(11)
*COPYCF(11,12,1,1,80) # REMOVE SEQUENCE NUMBERS
*REWIND(12)
*CLOSE(10)
*CLOSE(11)
*OPEN(13,UPDATE.PL,LIB0,36,LIB0,R)
*UPDATE(I=12,P=13,N=14,*=/)
*SAVEPF(14,UPDATE.PL,LIB0,AC,LIB0)
*SAVEPF(62,UPD-PL-SPS.LST,LIBL,01,LIBL)
*EDJ
```

```
*job(id=upd-pl-loc.bld)
*sched(cm=10,tl=9999,pl=60000,scr=100)
#
# This job adds LOCAL Mods to the STD PSRed OLDPL and builds an
# OLDPL called: UPDATE.PL,LIBB,ZZ,LIBB
#
*open(1,update.pl,lib0,AC,lib0,r)
*update(p=1,n=2,*=/)
// Place local modifications here.
/FINIS
*savepf(2,update.pl,libb,ZZ,libb)
*savepf(62,upd-pl-loc.lst,lib1,01,lib1)
*eof
```

```
*JOB(ID=UPDATE.BLD)
*SCHED(CM=11,TL=99999,PL=65000,SCR=100)
#
# This job builds the UPDATE product.
#
*OPEN(10,UPDATE.PL,LIBB,ZZ,LIBB,R)
*UPDATE(P=10,*=/,C=11,Q)
/C UPDATE
/FINIS
*REWIND(11)
*CMP(I=11,X=12,C,L)
*UPDATE(P=10,*=/,C=13,Q)
/C BLKSIZE.XIS # EVERYTHING EXCEPT "UPDATE" DECK
/FINIS
*REWIND(13)
*FTN(I=13,X=12,L,R)
*SAVEPF(12,LIB-UPDATE.REL,LBLD,01,LBLD)
*SAVEPF(62,UPDATE.LST,LIBL,01,LIBL)
*EDJ
```

*JOB(ID=LIB-UPDATE.BLD)

*SCHED(CM=11,TL=99999,PL=65000,SCR=100)

#

THIS JOB RE-BUILDS LIB-UPDATE.ABS FROM LIB-UPDATE.REL.

#

!!!WARNING!!!! FTN-RUNTM.REL ROUTINES ARE
OBTAINED FROM THE LIBRARY. IF THESE ROUTINES
CHANGE DURING A NEW LIBRARY BUILD, RJN THIS JOB
USING THE NEW LIBRARY AND BUILD YET ANOTHER NEW
LIBRARY TO INCLUDE THE NEWEST ROUTINES.

#

*OPEN(12,LIB-UPDATE.REL,LBLD,01,LBLD,R)

*OPEN(31,FTN-RUNTM.REL,LBLD,01,LBLD,R)

*OPEN(33,SYS-BKDBK.REL,LBLD,01,LBLD,R)

*OPEN(34,SYS-TSKMON.REL,LBLD,01,LBLD,R)

*RELEASE(LIB-UPDATE.ABS,LBLD,01,LBLD,0)

*ALLOCATE(LIB-UPDATE.ABS,LBLD,01,LBLD,480,100)

*OPEN(30,LIB-UPDATE.ABS,LBLD,01,LBLD)

*MAP

*LOAD(12,31,33,34)

*ABS(30)

*CLOSE(30)

*RELEASE(LIB-UPDATE.ABS,LBLD,01,LBLD,R)

*SAVEPF(62,LIB-UPDATE.LST,LBLL,01,LBLL)

*EOJ

STOP*ENDST*
*ITEMIZE

PROCESSING: LIB-UPDATE.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	UPDATE	561A9B7F		001F	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		UPDATE			
		EXTERNAL:		PARM	UPD8		
2.	ALLOC1	7832937E		0012	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		ALLOC1			
3.	ALLOC2	7B319381		000F	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		ALLOC2			
4.	APPLY	653F8D0B		0288	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		APPLY			
		EXTERNAL:		ISHFT%	Q8QINDEC	Q8QLGIN1	Q8QENGIN
				CDNAME	EROR		
5.	BCSF	9D4C8BF8		00A1	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		BCSF			
		EXTERNAL:		XCDK	ISHFT%	CDNAME	
6.	BPYTAB	7C1D8597		00F4	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		BPYTAB			
		EXTERNAL:		CID	CDNAME	ISHFT%	RITE
				EROR			WRLINE
7.	CDIRTV	68159547		0146	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		CDIRTV			
		EXTERNAL:		EROR			
8.	CDNAME	6F269130		006E	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		CDNAME			
		EXTERNAL:		EROR			
9.	CID	9C469B54		006B	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		CID			
		EXTERNAL:		EROR			
10.	COPY	9C408F1D		0069	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		COPY			
		EXTERNAL:		RDBLOCK	SQZ	ISHFT%	WRLINE
							WRBLOCK
11.	EROR	9A3D8FCE		00BF	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		EROR			
		EXTERNAL:		Q8QINGOT	Q8QARRAY	Q8QLGOT1	Q8QENGOT
				RITE	Q8QSTOP		IFUNIT
12.	IFILES	71169510		0183	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		IFILES			

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	FDATE	FTIME	IESR	JTYP	QBQREWND
			RDBLOCK	EROR	SQZ	ISHFTZ	WRLINE
13.	MP1	923FAD67		0158	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	MP1				
		EXTERNAL:	RCL	SAF	SID	BPYTAB	ISHFTZ
			WRBLOCK	RDBLOCK	EROR		
14.	MP2	923FA986		0439	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	MP2				
		EXTERNAL:	ISHFTZ	CDNAME	QBQREWND	QBQENFIL	RDBLOCK
			RPLT	APPLY	RITE	BPYTAB	WRBLOCK
			CID	SDIRE	XCDK	QBQINGOT	QBQARRAY
			QBQLGOT1	QBQENGOT	EROR		
15.	PCCARD	5D289B03		0198	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	PCCARD				
		EXTERNAL:	VCN		EROR		
16.	PCR	8F4C8CEB		00D4	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	PCR				
		EXTERNAL:	CID	CDNAME	EROR	WRBLOCK	SDIRE
			ISHFTZ	SEQNUM	RITE	XCDK	RCL
17.	RCL	8D4C92FE		00C1	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	RCL				
		EXTERNAL:	QBQINGIN	QBQARRAY	QBQLGIN1	QBQENGIN	IFUNIT
			SQZ	CDIRTV	BPYTAB	RITE	VCN
			EROR				
18.	RDBLOCK	5E2871EF		00A4	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	RDBLOCK				
		EXTERNAL:	LOCF	IBDB	PICKD	PICKI	PICKC
			ISHFTZ	QBQINGOT	QBQLGOT1	QBQENGOT	EROR
19.	RDLINE	5F2692FF		0097	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	RDLINE				
		EXTERNAL:	RDBLOCK	ISHFTZ	UNSQZ	CDIRTV	
20.	RITE	8D468A18		0182	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	RITE				
		EXTERNAL:	WRLINE	UNSQZ	QBQINGOT	QBQARRAY	QBQLGOT1
			QBQENGOT				
21.	RPLT	8D3F92F9		0092	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	RPLT				
		EXTERNAL:	RDLINE	ISHFTZ	RDBLOCK		
22.	SAF	8C4E98A1		011E	REL	MM/DD/YY HH:MM:SS	
		ENTRY:	SAF				
		EXTERNAL:	VCN	EROR	XIS	ISHFTZ	RITE
			RCL	CID	CDNAME	SDIRE	WRLINE
			SCY				

ITEMIZE

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ITEM NAME

CHECKSUM

REC

LEN

TYPE

DATE

TIME

EROR

5. XIS

87468C40

007F

REL

MM/DD/YY HH:MM:SS

ENTRY:

XIS

EXTERNAL:

EROR

CID

CDNAME

VCN

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

ALLOCI	ALLOCI					
ALLOCI	ALLOCI					
ALLOCI	ALLOCI					
APPLY	APPLY	MP2				
BCSF	BCSF	UPDB				
BPYTAB	BPYTAB	MP1	MP2	RCL	SID	
CDIRTV	CDIRTV	RCL	RDLINE			
CDNAME	CDNAME	APPLY SAF	BCSF SCY	BPYTAB SID	MP2 XCCK	PCR XIS
CID	CID	APPLY SCY	BPYTAB SID	MP2 XCCK	PCR XIS	SAF
COPY	COPY	UPDB				
EROR	EROR	APPLY IFILES RCL SID XIS	BPYTAB MP1 RDBLOCK UPDB	CDIRTV MP2 SAF VCN	CDNAME PCCARD SCY WRBLOCK	CID PCR SDIRE XCCK
FDATE	????????	IFILES				
FNAME	????????	IFILES				
IBDB	????????	RDBLOCK	WRBLOCK			
IESR	????????	IFILES				
IFILES	IFILES	UPDB				
IFUNIT	????????	EROR	RCL			
ISHFT%	????????	APPLY MP1 RPLT WRBLOCK	BCSF MP2 SAF	BPYTAB PCR SCY	COPY RDBLOCK SID	IFILES RDLINE TERM
LOCF	????????	RDBLOCK	WRBLOCK			
MINO%	????????	TERM				
MP1	MP1	UPDB				
MP2	MP2	UPDB				
PACKD	????????	WRBLOCK				

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
PACKD	????????	WRBLOCK				
PACKC	????????	WRBLOCK				
PARM	????????	UPDATE				
PCCARD	PCCARD	UPD8				
PCR	PCR	UPD8				
PICKD	????????	RDBLOCK				
PICKI	????????	RDBLOCK				
PICKC	????????	RDBLOCK				
QBQARRAY	????????	EROR	MP2	RCL	RITE	TERM
QBQENGIN	????????	APPLY	RCL			
QBQENGOT	????????	EROR WRBLOCK	MP2	RDBLOCK	RITE	TERM
QBQENFIL	????????	MP2	TERM			
QBQINDEC	????????	APPLY				
QBQINGOT	????????	EROR WRBLOCK	MP2	RDBLOCK	RITE	TERM
QBQINGIN	????????	RCL				
QBQLGIN1	????????	APPLY	RCL			
QBQLGOT1	????????	EROR WRBLOCK	MP2	RDBLOCK	RITE	TERM
QBQREWND	????????	IFILES	MP2	TERM		
QBQSTDP	????????	EROR				
RCL	RCL	MP1	PCR	SAF	SID	UPD8
RDBLOCK	RDBLOCK	COPY RPLT	IFILES SCY	MP1 TERM	MP2 XCDK	RDLINE
RDLINE	RDLINE	RPLT	SCY	XCDK		
RITE	RITE	BPYTAB SAF	EROR SCY	MP2 SID	PCR XCDK	RCL
RPLT	RPLT	MP2				

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

SAF	SAF	MP1				
SCY	SCY	SAF	SID			
SDIRE	SDIRE	MP2	PCR	SAF	SID	
SEQNUM	SEQNUM	PCR	UNSQZ			
SID	SID	MP1				
SQZ	SQZ	COPY	IFILES	RCL	TERM	
TERM	TERM	UPD8				
UNSQZ	UNSQZ	RDLIN	RITE	SCY		
UPD8	UPD8	UPDATE				
UPDATE	UPDATE					
UTYP	????????	IFILES				
VGN	VGN	PCCARD	RCL	SAF	XIS	
WRBLOCK	WRBLOCK	COPY WRLIN	MP1	MP2	PCR	TERM
WRLIN	WRLIN	BPYTAB SCY	COPY SID	IFILES TERM	RITE	SAF
XCDK	XCDK	BCSF	MP2	PCR		
XIS	XIS	SAF	SCY	SID		

ITEMIZE COMPLETE.

*SAVEPF(62,BLD-PLAN,LST,LIBL,01,)

*EDJ BLD-PLAN

M P - 3 2 P R O D U C T S E T

C M P

This is the COMPASS product. The base for this product is the GSD COMPASS; however, extensive modifications have been made since the base was obtained (at PSR Level 27?). Therefore, this COMPASS is maintained independently of the GSD P2 Oldpl and is used exclusively on the MP-32.

CMP0/CMPB owner last dumped on _____

File Name	Description	Last Build
cmp.ol,cmp0,??,cmp0	GSD PSRed Oldpl	-----
cmp-pl-gps.bld,cmp0,01,cmp0	Build next GSR PSR Level PL	
cmp-pl-gps.lst,cmp1,01,cmp1	Listing of above .bld job	
cmp.pl,cmp0,__,cmp0	Next GSD PSR Level PL	#1
std-mods.pl,cmp0,__,cmp0	Oldpl of Mods to GSD PL	-----
std-mds-pl.bld,cmp0,01,cmp0	Built next STD PSR Level Modpl	
std-mds-pl.lst,cmp1,01,cmp1	Listing of above .bld job	
std-mods.pl,cmp0,__,cmp0	Next STD PSR Level Modpl	#2
cmp-pl-sps.bld,cmp0,01,cmp0	Build next STD PSR Level PL	
cmp-pl-sps.lst,cmp1,01,cmp1	Listing of above .bld job	
cmp.pl,cmp0,__,cmp0	STD PSRed PL	-----
cmp-pl-loc.bld,cmp0,01,cmp0	Build PL with Local Mods	
cmp-pl-loc.lst,cmp1,01,cmp1	Listing of above .bld job	
cmp.pl,cmpb,ZZ,cmpb	Local (working) PL	-----
cmp.bld,cmpb,01,cmpb	Build CMP	
cmp.lst,cmp1,01,cmp1	Listing of above .bld job	
cmp-cmp.rel,lbld,01,lbld		-----
cmp-cmp.bld,lbld,01,lbld	Build Abs CMP	
cmp-cmp.lst,lbld,01,lbld	Listing of above .bld job	
cmp-cmp.abs,lbld,01,lbld		-----
compass.bld,cmpb,01,cmpb	Build COMPASS	
compass.lst,cmp1,01,cmp1	Listing of above .bld job	
cmp-compas.rel,lbld,01,lbld		-----
bld-plan.txt,cmpb,01,cmpb	Contains this text	
bld-plan.run,cmpb,01,cmpb	Produce Product Build Doc	

Integration Instructions for next release:

1. Analyze PSRs against GSD COMPASS and see if any should be applied here.

NOTES:

*1 This is a temporary Oldpl. It is build by cmp-pl-gps.bld and then, when all is well, the first Oldpl is released and the second Oldpl becomes the base Oldpl. The cmp-pl-gps.bld job is then modified to use the new PSR Level as a base and produce the next PSR Level.

Normally, the temporary Oldpl does not appear on Release Tapes.

#2 Same as #1 above for STD-MOOS.PL

STOP*ENDST*
*OPEN(10,CMP.PL,CMPB,ZZ, ,R)
*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/21/84
 16:39:52

OLDPL AUDIT:		TOTAL	YANKED	ACTIVE	RUNNING
DECK	YANK\$\$\$	1	0	1	1
DECK	COMPASS	11251	0	10710	10711
DECK	CMP	11	0	11	10722
COMDECK	HISTORY	61	0	61	10783

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED
STD014	11	COMPASS HISTORY
STD015	11	COMPASS HISTORY
STD016	9	COMPASS HISTORY
STD017	21	COMPASS HISTORY
STD018	166	COMPASS HISTORY
STD019	328	COMPASS HISTORY
STD020	53	COMPASS HISTORY
STD021	244	COMPASS HISTORY
STD022	220	COMPASS HISTORY
STD023	87	COMPASS HISTORY
STD024	507	COMPASS HISTORY
STD025	37	COMPASS HISTORY
STD026	6	COMPASS HISTORY
LEV-AA	5	HISTORY
LEV-AB	3	HISTORY
LEV-AC	3	HISTORY

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	
COMPASS	0	STD024 STD018 STD016 STD021 STD019 STD015 STD022 STD017 STD014 STD026 STD020 STD025 STD023
CMP	0	
HISTORY	0	LEV-AC LEV-AB LEV-AA STD026 STD025 STD024 STD023 STD022 STD021 STD020 STD019 STD018 STD017 STD016 STD015 STD014

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK DECKS CALLING THE COMMON DECK

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK COMMON DECKS CALLED BY THE DECK

NULL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

● HISTORY



XREFUP FINISHED.

#CLOSE(10)

#LISTF

```
*job(id=cmp-pl-gps.bld)
*sched(cm=10,t1=9999,pl=60000,scr=100)
#
# This job adds Government Systems Division (formerly Aerospace Systems
# Division) PSRs to the GSD Oldpl at a given level and produces a
# higher PSR Level Oldpl.
#
*open(1,cmp.pl,cmp0,??,cmp0,r)
*update(p=1,n=2,*=/)
/FINIS
*savepf(2,cmp.pl,cmp0,**,cmp0)
*savepf(62,cmp-pl-gps.lst,cmpl,01,cmpl)
*eof
```

```
*Job(id=cmp-pl-sps.bld)
*sched(cm=10,tl=9999,pl=60000,scr=100)
#
# This job adds Systems Technology Division modifications to the
# "PRODUCT-SET-P2" DIdpl of Government Systems Division.
#
# NOTE: The current "PRODUCT-SET-P2" in use here is called
# "CMP.PL,CMPO,??,CMPO" because it's exact source is
# unknown.
#
*OPEN(10,STD-MDDS.PL,CMPO,AC,CMPO,R)
*UPDATE(O,P=10,*=+,C=11)
+COMPILE CMP-PL
+FINIS
*REWIND(11)
*COPYCF(11,12,1,1,80) # REMOVE SEQUENCE NUMBERS
*REWIND(12)
*CLOSE(10)
*CLOSE(11)
*OPEN(13,CMP.PL,CMPO,??,CMPO,R)
*UPDATE(I=12,P=13,N=14,*=/)
*SAVEPF(14,CMP.PL,CMPO,AC,CMPO)
*SAVEPF(62,CMP-PL-SPS.LST,CMPL,01,CMPL)
*EOJ
```

```
*job(id=cmp-pl-loc.bld)
*sched(cm=10,tl=9999,pl=60000,scr=100)
#
# This job adds LOCAL Mods to the STD PSRed OLDPL and builds an
# OLDPL called:  CMP.PL,CMPB,ZZ,CMPB
#
*open(1,cmp.pl,cmp0,AC,cmp0,r)
*update(p=1,n=2,*=/)
// Place local modifications here.
/FINIS
*savepf(2,cmp.pl,cmpb,ZZ,cmpb)
*savepf(62,cmp-pl-loc.lst,cmp1,01,cmp1)
*eoj
```



```
*JOB(ID=CMP.BLD)
*SCHED(CM=9,TL=99999,PL=1000,SCR=100)
*OPEN(10,CMP.PL,CMPB,ZZ,CMPB,R)
*DATE(C,P=10,Q,*=/)
/CMP
/FINIS
*REWIND(56)
*CMP(I=56,X=31,C,L)
*SAVEPF(31,CMP-CMP.REL,LBLD,01,LBLD)
*SAVEPF(62,CMP.LST,CMPL,01,CMPL)
*EOJ
```

```
*JOB(ID=CMP-CMP.BLD)
*SCHED(CM=4,TL=99999,PL=1000,SCR=100)
*OPEN(1,CMP-CMP.REL,LBLD,01,LBLD,R)
*OPEN(2,CMP-COMPAS.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(CMP-CMP.ABS,LBLD,01,LBLD)
*ALLOCATE(CMP-CMP.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,CMP-CMP.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(CMP-CMP.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,CMP-CMP.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=COMPASS,BLD)
*SCHED(CM=10,TL=99999,PL=60000,SCR=100)
*OPEN(10,CMP,PL,CMPB,ZZ,CMPB,R)
*DATE(C,P=10,Q,*=/)
/COMPASS
/FINIS
*REWIND(56)
*CMP(I=56,X=31,C,L)
*SAVEPF(31,CMP-COMPAS.REL,LBLD,01,LBLD)
*SAVEPF(62,COMPASS.LST,CMPL,01,CMPL)
*EDJ
```

STOP*ENDST*
*ITEMIZE

ITEMIZE

09/18/84 14:46:23

PROCESSING: CMP-CMP.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	CMP	9C428FBC		0003	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		CMP			
		EXTERNAL:		COMPASS			

PROCESSING: CMP-COMPAS.REL,LBLD

2.	COMPASS	780D4315		1C7A	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		COMPASS	INLST			
		EXTERNAL:		PARM	OPENMEM	WEOF	UTYP	BKSP
				CLOSE	PARM	PARM	RELEASE	PACK
				PICKC	PACKC	PICKI	PARM	PICK
				PICKD	PACKD	PACKO	DATE	PARM
				REWD	TIME			

ITEMIZE

09/18/84 14:46:24

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
BKSP	????????	COMPASS				
● CISE	????????	COMPASS				
CMP	CMP					
COMPASS	COMPASS	CMP				
DATE	????????	COMPASS				
INLST	COMPASS					
OPENMEM	????????	COMPASS				
PACK	????????	COMPASS				
PACKC	????????	COMPASS				
PACKD	????????	COMPASS				
PACKD	????????	COMPASS				
PARM	????????	COMPASS	COMPASS	COMPASS	COMPASS	COMPASS
PICKC	????????	COMPASS				
PICKI	????????	COMPASS				
● PICK	????????	COMPASS				
PICKD	????????	COMPASS				
RELEASE	????????	COMPASS				
REWD	????????	COMPASS				
TIME	????????	COMPASS				
UTYP	????????	COMPASS				
WEOF	????????	COMPASS				

ITEMIZE COMPLETE.

*SAVEPF(62,BLD-PLAN.LST,CMPL,01,)

*EOJ BLD-PLAN

M P - 3 2 P R O D U C T S E T

F T N

This is the FORTRAN product. It is common to the military MPP and commercial MP-32 hardware. The source Oldpl (PRODUCT-SET-P2,MPMP,__,****) is obtained from CDC Government Systemd Division CEM Coordinator. This Oldpl is modified by the P2-PL-SPS.BLD job to become the base for MP-32 usage of the product.

The Products COMPASS, MICRO, A80, and L80 from GSD P2 are not used on the MP-32.

The SPCL.PL consists of Fortran Runtime routines that were created for usage on the MP-32. Some provide access to Macroinstructions available only with the MP-32 version of the MP-60 Emulator; others are more generally useful.

FTN0 owner last dumped on -----

FTNB owner last dumped on -----

File Name	Description	Last Build
product-set-p2,ftn0,__,ftn0	GSD PSRed Oldpl	-----
p2-pl-gps.bld,ftn0,01,ftn0	Build next GSD PSR Level PL	
p2-set-p2.lst,ftn1,01,ftn1	Listing of above .bld job	
product-set-p2,ftn0,__,ftn0	Next GSD PSR Level PL	#1
std-mods.pl,ftn0,__,ftn0	Oldpl of mods to GSD P2	-----
std-mds-pl.bld,ftn0,01,ftn0	Build next STD PSR Level Modpl	
std-mds-pl.lst,ftn1,01,ftn1	Listing of above .bld job	
std-mods.pl,ftn0,__,ftn0	Next STD PSR Level Modpl	#2
p2-pl-sps.bld,ftn0,01,ftn0	Build next STD PSR Level PL	
p2-pl-sps.lst,ftn1,01,ftn1	Listing of above .bld job	
p2.pl,ftn0,__,ftn0	STD PSRed PL	-----
p2-pl-loc.bld,ftn0,01,ftn0	Build PL with Local Mods	
p2-pl-loc.lst,ftn1,01,ftn1	Listing of above .bld job	
p2.pl,ftnb,ZZ,ftnb	Local (working) PL	-----
ftn.bld,ftnb,01,ftnb	Build FTN	
ftn-1.lst,ftn1,01,ftn1	Listing of above .bld job	
ftn-2.lst,ftn1,01,ftn1	CMP Listing of FTN assembly	
ftn-ftn.rel,lbld,01,lbld		-----
ftn-ftn.bld,lbld,01,lbld	Build Abs FTN	
ftn-ftn.lst,lbll,01,lbll	Listing of above .bld job	
ftn-ftn.abs,lbld,01,lbld		-----
ipl.bld,ftnb,01,ftnb	Build IPL	
ipl.lst,ftn1,01,ftn1	Listing of above .bld job	
ftn-ipl.rel,lbld,01,lbld		-----
ftn-ipl.bld,lbld,01,lbld	Build Abs IPL	
ftn-ipl.lst,lbll,01,lbll	Listing of above .bld job	
ftn-ipl.abs,lbld,01,lbld		-----
ftn-ipl1.bld,lbld,01,lbld	Build Abs IPL1	
ftn-ipl1.lst,lbll,01,lbll	Listing of above .bld job	
ftn-ipl1.abs,lbld,01,lbld		-----
ftn-ipl2.bld,lbld,01,lbld	Build Abs IPL2	


```

    ftn-ipl2.lst,lbll,01,lbll Listing of above .bid job
    ftn-ipl2.abs,lbld,01,lbld
ftncmp,bld,ftnb,01,ftnb Build FTNCMP -----
    ftn-ipl2.lst,ftnl,01,ftnl Listing of above .bid job
    ftn-ftncmp.rel,lbld,01,lbld
    ftn-ftncmp.bld,lbld,01,lbld Build Abs FTNCMP -----
    ftn-ftncmp.lst,lbll,01,lbll Listing of above .bid job
    ftn-ftncmp.abs,lbld,01,lbld
runtm-skel.bld,ftnb,01,ftnb Build the Skeleton Binary -----
    runtmskel.lst,ftnl,01,ftnl Listing of above .bid job
    runtmskel.rel,ftnb,01,ftnb
    runtmbld,ftnb,01,ftnb Build FTN Runtime -----
    runtmlst,ftnl,01,ftnl Listing of above .bid job
    ftn-runtm.rel,lbld,01,lbld -----

spcl.pl,ftn0,__,ftn0 STD PSRed PL -----
    spc-pl-sps.bld,ftn0,01,ftn0 Build next PSR Level PL -----
    spc-pl-sps.lst,ftnl,01,ftnl Listing of above .bid job
    spcl.pl,ftn0,__,ftn0 Next PSR Level PL #2

    spc-pl-loc.bld,ftn0,01,ftn0 Build LOCAL PL -----
    spc-pl-loc.lst,ftnl,01,ftnl Listing of above .bid job
    spcl.pl,ftnb,ZZ,ftnb Local (working) PL -----
    spcl.bld,ftnb,01,ftnb Build Spcl Runtime -----
    spcl.lst,ftnl,01,ftnl Listing of above .bid job
    ftn-spcl.rel,lbld,01,lbld -----

bid-plan.txt,ftnb,01,ftnb Contains this text
bid-plan.run,ftnb,01,ftnb Produce Product Build Doc

```

Integration Instructions for next release:

1. The current base is not known to be identical to the GSD release Oldpl at level 52. The official GSD PSR level 59 oldpl is available at SVLDPS.
2. There are extensive STD modifications to the (PSR level 52) GSD FORTRAN. There are a Major PSRs from GSD. There is a new FORTRAN being produced by GSD. All these factors will bear on the future of FORTRAN on the MP-32.

NOTES:

*1 This is a temporary Oldpl. It is build by p2-pl-gps.bld and then, when all is well, the first Oldpl is released and the second Oldpl becomes the base Oldpl. The p2-pl-gps.bld job is then modified to use the new PSR Level as a base and produce the next PSR Level.

Normally, the temporary Oldpl does not appear on Release Tapes.

*2 Same as #1 above; for spcl.pl.

STOP*ENDST*
*OPEN(10,P2.PL,FTNB,ZZ,)
*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 09/10/84
 13:21:40

OLDPL AUDIT:		TOTAL	YANKED	ACTIVE	RUNNING
DECK	YANK\$\$\$	3	0	3	3
COMDECK	FTNCOMPL	487	0	483	486
DECK	FTN	2119	5	2112	2598
DECK	PASS4	329	0	326	2924
DECK	PASS3	683	0	682	3606
DECK	PASS2	1355	12	1350	4956
DECK	PASS1	3918	0	3907	8863
DECK	ARITH	1521	0	1519	10382
DECK	DOLOOPS	1495	0	1495	11877
DECK	CYCLOPS	3593	0	3592	15469
DECK	PROTO	1735	0	1731	17200
DECK	IOPRO	826	0	811	18011
DECK	STEXT	2122	0	2118	20129
DECK	LEXICAL	1885	0	1884	22013
DECK	MANAGER	720	0	720	22733
DECK	IDSTMTS	1705	0	1705	24438
DECK	ASCIINP	621	0	621	25059
DECK	ASCIIOUT	765	0	735	25794
DECK	BINARY	260	0	260	26054
DECK	CONTRDL	629	0	624	26678
DECK	FCLOSE	59	0	59	26737
DECK	FORMAT	333	0	333	27070
DECK	QBQARRAY	109	0	109	27179
DECK	BUFFER	121	0	121	27300
DECK	IFUNIT	135	0	135	27435
DECK	QBQERRDR	124	0	124	27559
DECK	QBQSTP	117	0	117	27676
DECK	FTNDATM	83	0	83	27759
DECK	TAPEHAND	192	0	192	27951
DECK	ESRUTIL	190	0	189	28140
DECK	FAULT	116	0	116	28256
DECK	ASNCS	160	0	160	28416
DECK	ADSNCS	190	0	190	28606
DECK	ATAN	129	0	129	28735
DECK	ATANH	87	0	87	28822
DECK	ARCTAN	189	0	189	29011
DECK	DARCTAN	208	0	208	29219
DECK	MODULAR	103	0	103	29322
DECK	ABSVALUE	32	0	32	29354
DECK	TRUNCATE	63	0	63	29417
DECK	SINGLDBLE	20	0	20	29437
DECK	POSSDIFF	47	0	47	29484
DECK	SQRDOT	98	0	98	29582
DECK	MAXMIN	176	0	176	29758
DECK	MASKING	51	0	51	29809
DECK	SIGNTRAN	74	0	74	29883
DECK	CONVERT	34	0	34	29917
DECK	FLOATEXP	280	0	280	30197
DECK	INTEXP	194	0	194	30391
DECK	AEXP	96	0	96	30487
DECK	ADEXP	179	0	179	30666
DECK	LOGS	158	0	158	30824
DECK	OLDGS	164	0	164	30988

DECK	AMATHER	178	0	178	31166
DECK	IPL	67	0	67	31233
DECK	FTNCMP	20	0	20	31253
DECK	FTNINT1	398	0	398	31651
DECK	FTNINT2	423	0	422	32073
DECK	FTNINT3	508	0	507	32580
DECK	FTNINT4	93	0	93	32673
COMDECK	HISTORY	106	0	106	32779

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED
P173	5	CONTROL
P182	7	PASS2
P228	4	PASS3
P229	2	STEXT
P242	10	FTN PASS2
P232	35	IOPRO
P248	8	PROTO LEXICAL
P249	16	ASCIIOUT
P251	34	PASS1
P256	2	ARITH
P264	2	PASS1
P290	21	FTNCOMPL PASS1 DOLOOPS PROTO
P272	9	ARITH
STD027	8	YANK\$\$\$ HISTORY
STD028	8	YANK\$\$\$ HISTORY
STD029	8	FTNCOMPL FTNINT2 FTNINT3 HISTORY
STD030	22	FTN PASS4 HISTORY
STD031	6	ESRUTIL HISTORY
STD032	17	FTN PASS3 HISTORY
STD033	149	FTNCOMPL PASS2 ARITH CYCLOPS PROTO STEXT HISTORY
STD034	48	ASCIIOUT HISTORY
STD035	6	ASCIINP HISTORY
LEV-AA	5	HISTORY
PLSS1	7	FTNCOMPL HISTORY
LEV-AB	3	HISTORY
LEV-AC	3	HISTORY

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	STD028 STD027
FTNCOMPL	0	STD029 PLSS1 STD033 P290
FTN	0	STD032 STD030 P242
PASS4	0	STD030
PASS3	0	STD032 P228
PASS2	0	STD033 P242 P182
PASS1	0	P251 P290 P264
ARITH	0	P272 STD033 P256
DOLOOPS	0	P290
CYCLOPS	0	STD033
PROTO	0	STD033 P290 P248
IOPRO	0	P232
STEXT	483	STD033 P229
LEXICAL	58	P248
MANAGER	321	
IOSTMTS	673	
ASCIINP	1339	STD035

ASCIIOUT	1843	STD034	P249			
BINARY	1488					
CONTROL	1493	P173				
FCLOSE	1521					
FORMAT	1712					
QBQARRAY	806					
BUFFER	47					
IFUNIT	1884					
QBQERROR	720					
QBQSTP	1705					
FTNDATM	618					
TAPEHAND	734					
ESRUTIL	260	STD031				
FAULT	629					
ASNCS	333					
ADSNCS	109					
ATAN	121					
ATANH	135					
ARCTAN	124					
DARCTAN	117					
MODULAR	83					
ABSVALUE	192					
TRUNCATE	189					
SNGLDLBLE	116					
POSSDIFF	160					
SQROOT	190					
MAXMIN	129					
MASKING	87					
SIGNTRAN	189					
CONVERT	208					
FLDATEXP	103					
INTEXP	32					
AEXP	63					
ADEXP	20					
LOGS	47					
DLOGS	98					
AMATHER	176					
IPL	51					
FTNCMP	74					
FTNINT1	34					
FTNINT2	280	STD029				
FTNINT3	194	STD029				
FTNINT4	96					
HISTORY	179	LEV-AC	LEV-AB	PLSS1	LEV-AA	STD035
		STD034	STD033	STD032	STD031	STD030
		STD029	STD028	STD027		

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK	DECKS CALLING THE COMMON DECK				
FTNCOMPL	FTN	PASS4	PASS3	PASS2	PASS1
	ARITH	DOLOOPS	CYCLOPS	PROTO	IOPRO
	LEXICAL	MANAGER	IOSTMTS		

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK	COMMON DECKS CALLED BY THE DECK
FTN	FTNCOMPL
PASS4	FTNCOMPL
PASS3	FTNCOMPL

PASS2	FTNCOMPL
PASS1	FTNCOMPL
ARITH	FTNCOMPL
DO_LOOPS	FTNCOMPL
CYCLOPS	FTNCOMPL
PRJTO	FTNCOMPL
IOPRO	FTNCOMPL
LEXICAL	FTNCOMPL
MANAGER	FTNCOMPL
I0STMTS	FTNCOMPL

NULL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

HISTORY

XREFUP FINISHED.
*LISTF

```
*JOB(ID=P2-PL-GPS.BLD)
*SCHED(CM=9,PL=65000,TL=9999,SCR=150)
#
# This job adds Government Systems Division (formerly Aerospace Systems
# Division) PSRs to the GSD Oldpl at a given level and produces a
# higher PSR level Oldpl.
#
*OPEN(10,PRODUCT-SET-P2,FTNO,52,FTNO,R)
*UPDATE(F,P=10,N=11,*=/,O=A24)
/FINIS
*SAVEPF(11,PRODUCT-SET-P2,LIBO,**,LIBO)
*SAVEPF(62,P2-SET-P2.LST,FTNL,01,FTNL)
*EOJ
```



```
*JOB(ID=P2-PL-SPS.BLD)
*SCHED(CM=10,TL=9999,PL=65000,SCR=150)
#
# This job adds Systems Technology Division modifications to the
# "PRODUCT-SET-P2" DIdpl of Government Systems Division.
#
*OPEN(10,STD-MODS.PL,FTNO,AC,FTNO,R)
*UPDATE(Q,P=10,*=+,C=11)
+COMPILE P2-PL
+FINIS
*CLOSE(25)
*REWIND(11)
*COPYCF(11,12,1,1,80) # REMOVE SEQUENCE NUMBERS
*REWIND(12)
*CLOSE(10)
*CLOSE(11)
*OPEN(13,PRODUCT-SET-P2,FTNO,52,FTNO,R)
*UPDATE(I=12,P=13,N=14,*=/)
*SAVEPF(14,P2.PL,FTNO,AC,FTNO)
*SAVEPF(62,P2-PL-SPS.LST,FTNL,01,FTNL)
*EOJ
```

```
*job(id=p2-pl-loc.bld)
*sched(cm=10,tl=9999,pl=60000,scr=100)
#
# This job adds LOCAL Mods to the STD PSRed OLDPL and builds an
# OLDPL called: P2.PL,FTNB,ZZ,FTNB
#
*open(1,p2.pl,ftn0,AC,ftn0,r)
*update(p=1,n=2,*=/)
// Place local modifications here.
/FINIS
*savepf(2,p2.pl,ftnb,ZZ,ftnb)
*savepf(62,p2-pl-loc.lst,ftnl,01,ftnl)
*eoj
```

```
*JOB(ID=FTN.BLD)
*SCHED(CM=12,PL=65530,TL=99999,SCR=150)
#
# BUILD PRODUCTION FTN.
#
*OPEN(10,P2.PL,FTNB,ZZ,FTNB,R)
*UPDATE(P=10,0,*=/,C=11)
/C FTN
/C MANAGER
/C PASS1
/C ARITH
/C DOLOOPS
/C LEXICAL
/C IOSTMTS
/C PASS2
/C CYCLOPS
/C IOPRD
/C PROTO
/C STEXT
/C PASS3
/C PASS4
/FINIS
*REWIND(11)
#
# NOTE: MAX SCRATCH SPACE IS NOT ENOUGH TO HOLD LISTING AND BINARY.
# THE LISTING FILE IS ALLOCATED EXPLICITLY TO AVOID SCRATCH
# SPACE LIMITATIONS.
*RELEASE(FTN-2.LST,FTNL,01,FTNL,0)
*ALLOCATE(FTN-2.LST,FTNL,01,FTNL,480,3000,S,RW)
*OPEN(13,FTN-2.LST,FTNL,01,FTNL)
#
*CMP(I=11,X=12,L=13,C)
*SAVEPF(12,FTN-FTN.REL,LBLD,01,LBLD)
#
*CLOSE(13)
*RELEASE(FTN-2.LST,FTNL,01,FTNL,R)
#
*SAVEPF(62,FTN-1.LST,FTNL,01,FTNL)
*EOJ
```

```
*JOB(ID=FTN-FTN.BLD)      # MAKE FTN-FTN.ABS
*SCHED(CM=12,TL=99999,PL=1000,SCR=100)
*OPEN(1,FTN-FTN.REL,LBLD,01,LBLD,R)
*OPEN(2,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(FTN-FTN.ABS,LBLD,01,LBLD)
*ALLOCATE(FTN-FTN.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,FTN-FTN.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3)
*ABS(10)
*CLOSE(1)
*CLOSE(10)
*RELEASE(FTN-FTN.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,FTN-FTN.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=IPL.BLD)
*SCHED(CM=9,PL=65000,TL=99999,SCR=100)
#
# BUILD FTN-TO-FTNCMP TRANSITION TASK.
#
*OPEN(10,P2.PL,FTNB,ZZ,FTNB,R)
*UPDATE(C,P=10,Q,*=/)
/C IPL
/FINIS
*REWIND(56)
*CMP(I=56,X,L,C)
*SAVEPF(57,FTN-IPL.REL,LBLD,01,LBLD)
*SAVEPF(62,IPL.LST,FTNL,01,FTNL)
*EOJ
```

```
*JOB(ID=FTN-IPL.BLD) # MAKE FTN-IPL.ABS
*SCHED(CM=3,PL=1000,SCR=50,TL=99999)
*OPEN(1,FTN-IPL.REL,LBLD,01,LBLD,R)
*RELEASE(FTN-IPL.ABS,LBLD,01,LBLD)
*LOCATE(FTN-IPL.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,FTN-IPL.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1)
*ABS(10)
*CLOSE(10)
*RELEASE(FTN-IPL.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,FTN-IPL.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=FTN-IPL1.BLD)      # MAKE FTN-IPL1.ABS
*SCHED(CM=3,PL=1000,SCR=50,TL=99999)
*OPEN(1,FTN-IPL.REL,LBLD,01,LBLD)
*RELEASE(FTN-IPL1.ABS,LBLD,01,LBLD)
*ALLOCATE(FTN-IPL1.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,FTN-IPL1.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1)
*ABS(10)
*CLOSE(10)
*RELEASE(FTN-IPL1.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,FTN-IPL1.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=FTN-IPL2.BLD)      # MAKE FTN-IPL2.ABS
*SCHED(CM=3,PL=1000,SCR=50,TL=99999)
*OPEN(1,FTN-IPL.REL,LBLD,01,LBLD)
*RELEASE(FTN-IPL2.ABS,LBLD,01,LBLD)
*LOCATE(FTN-IPL2.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,FTN-IPL2.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1)
*ABS(10)
*CLOSE(10)
*RELEASE(FTN-IPL2.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,FTN-IPL2.LST,LBLL,01,LBLL)
*EOJ
```



```
*JOB(ID=FTNCMP.BLD)
*SCHED(CM=9,PL=65000,TL=99999,SCR=100)
#
# BUILD DRIVER THAT CALLS COMPASS AFTER FTN IS DONE.
#
*OPEN(10,P2,PL,FTNB,ZZ,FTNB,R)
*UPDATE(C,P=10,Q,*=/)
/C FTNCMP
/FINIS
*REWIND(56)
*CMP(I=56,X=20,L,R=2)
*SAVEPF(20,FTN-FTNCMP.REL,LBLD,01,LBLD)
*SAVEPF(62,FTNCMP.LST,FTNL,01,FTNL)
*EOJ
```

```
*JOB(ID=FTN-FTNCMP.BLD)
*SCHED(CM=10,PL=1000,SCR=50,TL=99999)
*OPEN(1,FTN-FTNCMP.REL,LBLD,01,LBLD,R)
*OPEN(2,CMP-CJMPAS.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(FTN-FTNCMP.ABS,LBLD,01,LBLD)
*ALLOCATE(FTN-FTNCMP.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,FTN-FTNCMP.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(FTN-FTNCMP.ABS,LBLD,01,LBLD,R)
*SAVEP(62,FTN-FTNCMP.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=RUNTM.BLD)
*SCHED(CM=9,PL=65000,TL=99999,SCR=100)
```

```
#
# THIS JOB BUILDS THE FTN RUN-TIME LIBRARY ROUTINES.
```

```
*OPEN(10,P2.PL,FTNB,ZZ,FTNB,R)
*UPDATE(C,P=10,Q,0=A24,*=/)
```

```
/C ASCIINP
/C ASCIIOUT
/C BINARY
/C BUFFER
/C CONTROL
/C FORMAT
/C IFUNIT
/C TAPEHAND
/C QBQARRAY
/C QBQERROR
/C QBQSTP
/C ABSVALUE
/C ADEXP
/C ADSNCS
/C AEXP
/C AMATHER
/C ASNCS
/C ATAN
/C ATANH
/C ARCTAN
/C CONVERT
/C DARCTAN
/C DLOGS
/C ESRUTIL
/C FCLOSE
/C FAULT
/C FLOATEXP
/C FTNDATM
/C FTNINT1
/C FTNINT2
/C FTNINT3
/C FTNINT4
/C INTEXP
/C LOGS
/C MASKING
/C MAXMIN
/C MODULAR
/C POSSDIFF
/C SIGNTRAN
/C SNGLDBLE
/C SQROOT
/C TRUNCATE
```

```
/FINIS
*REWIND(56)
*CMP(I=56,X,L,C)
*OPEN(40,RUNTM-SKEL.REL,FTNB,01,FTNB)
*COPYL(40,57,41)
*SAVEPF(41,FTN-RUNTM.REL,LBLD,01,LBLD)
*SAVEPF(62,RUNTM.LST,FTNL,01,FTNL)
*EOJ
```

```
*JOB(ID=SPC-PL-SPS.BLD)
*SCHED(CM=9,TL=9999,PL=10000,SCR=40)
#
# This job builds a higher PSR Level release Oldpl from one of
# a given level and the appropriate PSR code.
#
# PSR code is obtained from the Systems Technology Division
# (of CDC) PSR Summaries.
#
#-----
# This portion of the job is temporary. It resequences the Level AB
# OLDPL and prepares for AC generation.
#
*OPEN(5,SPCL,PL,FTNO,AB,FTNO,R)
*UPDATE(F,P=5,N=6,*=/,O=A,S=7)
/FINIS
*CLOSE(6)
*REWIND(7)
*UPDATE(F,I=7,N=10,*=/,O=A)
*CLOSE(7)
*REWIND(10)
#-----
*RELEASE(SPCL,PL,FTNO,AC,FTNO)
#----*OPEN(10,SPCL,PL,FTNO,AB,FTNO,R)
*UPDATE(P=10,N=20,O=A,*=/)
// PLACE PSR CODE AFTER THIS LINE.
/IDENT LEV-AC
/INSERT HISTORY.3
LEV-AC 23 AUG 84 Fariss, G. B.
# THIS POINT DIVIDES LEVEL AC FROM HIGHER LEVELS.
/FINIS
*SAVEPF(20,SPCL,PL,FTNO,AC,FTNO)
*SAVEPF(62,SPC-PL-SPS.LST,FTNL,01,FTNL)
*EOJ
```

```
*JOB(ID=SPC-PL-LDC.BLD)
*SCHEO(CM=9,TL=9999,PL=10000,SCR=40)
#
# This job adds local-site modifications to the standard Oldpl
# and builds the final Oldpl (always Edition ZZ).
#
*RELEASE(SPCL,PL,FTNB,ZZ,FTNB)
*OPEN(10,SPCL,PL,FTN0,AC,FTN0,R) # Change the edition as appropriate
*UPDATE(P=10,N=20,O=A,*=/)
// PLACE LOCAL-MOD CODE AFTER THIS LINE.
/FINIS
*SAVEPF(20,SPCL,PL,FTNB,ZZ,FTNB)
*SAVEPF(62,SPC-PL-LDC.LST,FTNL,01,FTNL)
*EOJ
```

*JOB(ID=SPCL.BLD)

*SCHED(CM=9,PL=15000,TL=99999,SCR=40)

#

THIS JOB BUILDS THE SPECIAL FTN CALLABLES THAT SUPPORT MPX/OS V3
EMULATOR AND OPERATING SYSTEM FEATURES.

#

*OPEN(9,SPCL.PL,FTNB,ZZ,FTNB,R)

UPDATE(F,P=9,C=20,=/)

/FINIS

*REWIND(20)

*CMP(I=20,X=30,R=2,L,C)

*SAVEPF(30,FTN-SPCL.REL,LBLD,01,LBLD)

*SAVEPF(62,SPCL.LST,FTNL,01,FTNL)

*EOJ

STOP*ENDST*
*ITEMIZE

PROCESSING: FTN-FTN.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	FTN	993B8A0D	0782	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		COMPASSC	CUNIT	DPROTO	DREG	DUMPT
			EDFPRJ	ERROR	FTN	HNAME	LUNIT
			PRINT	PRINTD	PRINTL	PRINTOP	...MORE
	EXTERNAL:		PARM	PICKD	ABORT	PACKD	DATE
			PARM	OPENMEM	PARM	MANAGER	OPNTAB
			PASS1	PACKC	PASS2	PICKC	PASS3
			WEOF	PASS4	REWD	PARM	PARM
			PARM	RELMEM	CALL	PARM	XICHAR
			RLFULL	PICK	IXCHAR	PACK	PROTOLOC
			PROTONM	REG.EQU	ALLOCATE	CLOSE	OPEN
	RELEASE						
2.	PASS4	7B4E8BCF	00BD	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		PASS4				
	EXTERNAL:		JACC	RCOMPASS	COMPASSC	CUNIT	PACKD
			QFTNSTAT	WCOMP.99	CLOSE	MODIFY	PARM
			EDFPRJ	TABORT	OPEN	ULOC	XICHAR
			JCIJNUM				
3.	PASS3	7C4E8A5B	0231	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		PASS3				
	EXTERNAL:		LUNIT	HNAME	PRINTL	PRINT	PRINTR
			TYPETAB	CBNT	CBNT	CBNT	
4.	PASS2	7D4E88CA	03C2	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		FUNFLAG	MEMORY	P2.500ID	PASS2	
	EXTERNAL:		OPNTAB	EXTTAB	EXTTAB	EXTTAB	PCALL
			RRLIST	WCOMPASS	BSSLAB	DREAD	EWRITE
			REWIND	BACKSP	ENDFILE	BUFFERIN	BUFFEROT
			ENCODE	DECODE	R.WDS	CYCLOPS	GENLAB
			WSTKCMP	ERROR	EXTTAB	CLSTAB	DOVER
			VETOF	P.EQU	P.GBP	P.GBS	P.GIF
			P.SVE	P.JPS	P.RTR	P.RST	P.GBF
			P.TFP	P.LST	P.UGO	P.CJP	P.AJP
			P.AIF	P.SBL	P.IDOA	P.IDOB	P.IDOC
			P.EBL	P.TDOA	P.ASG	P.PST	P.ENT
			P.RET	P.BSA	P.LFP	P.FPCA	P.FPL
			P.FPC	P.FPW	P.LIT	P.EXT	P.ETY
			P.GXT	P.XSB	P.END	P.ENP	P.TMP
5.	PASS1	7E4E7F83	0CD9	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		CBNT	PASS1	RECVR	RSYMBOL	RSYMBOLA
			VETDF	WSYMBOL	WSYMBOLA		
	EXTERNAL:		READCARD	TYPE	DOLAB	PLABEL	ERROR
			OPNTAB	INCTAB	ARITH	RCOUNT	GIFN
			WRLIST	TYPEA	DOPROC	LABREF	WCOMPASS

DOVAR ARITHC DOEXT FMTPRC IOSTMT
 DOEND CLSTAB DUMPT IXCHAR HNAME
 CONVERT DECTAB XLABEL GENLAB DOVER
 SCANNER HNAME CVTE0 CVTE1 CVTE2
 CVTE3 EXLB2

6. ARITH 753D919D 04E7 REL MM/DD/YY HH:MM:SS
 ENTRY: ARITH ARITHC GIFN RCOUNT
 EXTERNAL: DOEXT RSYMBOL WSYMBOL DOVAR CONVERT
 RSYMBOLA WSYMBOLA ERROR CVTE0 CVTE1
 CVTE2 CVTE3

7. DOLOOPS 6C105BC0 04D0 REL MM/DD/YY HH:MM:SS
 ENTRY: DOEND DOEXT DOLAB DOPROC DOVAR
 DOVER EXLB2 LABREF PLABEL XLABEL
 EXTERNAL: ERROR INCTAB RECVR MOVE DECTAB
 WRLIST RLFULL PACKLAB CLSTAB SCANNER
 GENLAB CONVERT

8. CYCLOPS 6D065B57 0E3C REL MM/DD/YY HH:MM:SS
 ENTRY: CYCLOPS LITERAL R.WDS
 EXTERNAL: P.XOR P.OR P.AND P.NOT P.ADD
 P.SUB P.MLT P.DIV P.UNM P.LDXI
 P.LDX P.ADX P.SBX P.MPX P.MPIX
 P.ADIX P.STR P.TST P.UGO P.BJPF
 P.BJPT P.LAB P.CVRT P.FN P.STRR
 P.RTJ P.RTJI P.ARG P.FN2 P.ARG2
 P.LDXI2 P.STRL ERROR DECTAB INCTAB
 MEMORY GENLAB PCALL SRCHF MOVE
 PRINTD GLBNAME CLSTAB DPNTAB

9. PROTD 603D8C13 0478 REL MM/DD/YY HH:MM:SS
 ENTRY: BSSLAB EXTTAB GLBNAME PCALL REG.EQU
 SRCHF
 EXTERNAL: DPROTO DREG INCTAB MEMORY WCOMPASS
 LITERAL DECTAB FUNFLAG P.STRT

10. IOPRO 67408D8D 0200 REL MM/DD/YY HH:MM:SS
 ENTRY: BACKSP BUFFERIN BUFFEROT DECODE DREAD
 ENCODE ENDFILE EWRITE REWIND
 EXTERNAL: PCALL P2.500ID R.WDS CYCLOPS INCTAB
 MEMORY DECTAB P.IAID P.IBRW P.TRM
 P.IED P.BUF P.FN P.RTJT P.ARG
 P.BALD P.BAST P.ARY P.ARYI P.ARYD
 P.SBL P.EBL

11. STXT 583B9060 0A27 REL MM/DD/YY HH:MM:SS
 ENTRY: PROTOLOG PROTONM P.ADD P.ADIX P.ADX
 P.AIF P.AJP P.AND P.ARG P.ARG2
 P.ARY P.ARYI P.ARYD P.ASG ...MORE

12. LEXICAL 70295481 0715 REL MM/DD/YY HH:MM:SS
 ENTRY: CONVERT CVTE0 CVTE1 CVTE2 CVTE3

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 ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

EXTERNAL: GENLAB PACKLAB SCANNER TYPE TYPEA
 ERROR INCTAB RECVR PRINTD PICTURE
 IXCHAR

13. MANAGER 68295D9B 0203 REL MM/DD/YY HH:MM:SS
 ENTRY: CLSTAB DECTAB INCTAB IXCHAR MANAGER
 MOVE OPNTAB PICTURE XICHAR

14. IDSTMTS 690C53AF 05DC REL MM/DD/YY HH:MM:SS
 ENTRY: FMTPRC IDSTMT RLFULL
 EXTERNAL: DOEXT ERROR PACKLAB LABREF WCOMPASS
 WRLIST DOVAR CONVERT GIFN SCANNER
 DOPROC INCTAB RECVR DECTAB PRINTD
 CLSTAB OPNTAB

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
ABORT	????????	FTN				
ALLOCATE	????????	FTN				
ARITH	ARITH	PASS1				
ARITHC	ARITH	PASS1				
BACKSP	IOPRO	PASS2				
BSSLAB	PROTO	PASS2				
BUFFERIN	IOPRO	PASS2				
BUFFEROT	IOPRO	PASS2				
CALL	????????	FTN				
CBNT	PASS1	PASS3	PASS3	PASS3		
CLOSE	????????	FTN	PASS4			
CLSTAB	MANAGER	CYCLOPS	DOLOOPS	IOSTMTS	PASS2	PASS1
COMPASSC	FTN	PASS4				
CONVERT	LEXICAL	ARITH	DOLOOPS	IOSTMTS	PASS1	
COIT	FTN	PASS4				
CVTE0	LEXICAL	ARITH	PASS1			
CVTE1	LEXICAL	ARITH	PASS1			
CVTE2	LEXICAL	ARITH	PASS1			
CVTE3	LEXICAL	ARITH	PASS1			
CYCLOPS	CYCLOPS	IOPRO	PASS2			
DATE	????????	FTN				
DECODE	IOPRO	PASS2				
DECTAB	MANAGER	CYCLOPS	DOLOOPS	IOPRO	IOSTMTS	PASS1
		PROTO				
DDEND	DOLOOPS	PASS1				
DDEXT	DOLOOPS	ARITH	IOSTMTS	PASS1		
DDLAB	DOLOOPS	PASS1				

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT					
DOPROC	DOLoops	I0STMTS	PASS1				
DOYAR	DOLoops	ARITH	I0STMTS	PASS1			
DOVER	DOLoops	PASS2	PASS1				
DPROTO	FTN	PROTO					
DREAD	IOPRO	PASS2					
DREG	FTN	PROTO					
DUMPT	FTN	PASS1					
ENCODE	IOPRO	PASS2					
ENDFILE	IOPRO	PASS2					
EOFPRO	FTN	PASS4					
ERROR	FTN	ARITH PASS2	CYCLOPS PASS1	DOLoops	I0STMTS	LEXICAL	
EWRITE	IOPRO	PASS2					
EXLB2	DOLoops	PASS1					
EXTAB	PROTO	PASS2	PASS2	PASS2	PASS2		
FMTPRC	I0STMTS	PASS1					
FTN	FTN						
FUNFLAG	PASS2	PROTO					
GENLAB	LEXICAL	CYCLOPS	DOLoops	PASS2	PASS1		
GIFN	ARITH	I0STMTS	PASS1				
GLBNAME	PROTO	CYCLOPS					
HNAME	FTN	PASS3	PASS1	PASS1			
INCTAB	MANAGER	CYCLOPS PASS1	DOLoops PROTO	IOPRO	I0STMTS	LEXICAL	
I0STMT	I0STMTS	PASS1					
IXCHAR	MANAGER	FTN	LEXICAL	PASS1			
JACC	????????	PASS4					
JNUM	????????	PASS4					

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
LABREF	DOLOOPS	IOSTMTS	PASS1			
LITERAL	CYCLOPS	PROTO				
LUNIT	FTN	PASS3				
MANAGER	MANAGER	FTN				
MEMORY	PASS2	CYCLOPS	IOPRO	PROTO		
MODIFY	????????	PASS4				
MOVE	MANAGER	CYCLOPS	DOLOOPS			
OPENMEM	????????	FTN				
OPEN	????????	FTN	PASS4			
OPNTAB	MANAGER	CYCLOPS	FTN	IOSTMTS	PASS2 PASS1	
P.ADD	STEXT	CYCLOPS				
P.ADX	STEXT	CYCLOPS				
P.ADIX	STEXT	CYCLOPS				
P.AIF	STEXT	PASS2				
P.AJP	STEXT	PASS2				
P.AND	STEXT	CYCLOPS				
P.ARG	STEXT	CYCLOPS	IOPRO			
P.ARG2	STEXT	CYCLOPS				
P.ARY	STEXT	IOPRO				
P.ARYI	STEXT	IOPRO				
P.ARYD	STEXT	IOPRO				
P.ASG	STEXT	PASS2				
P.BALD	STEXT	IOPRO				
P.BAST	STEXT	IOPRO				
P.BJPF	STEXT	CYCLOPS				
P.BJPT	STEXT	CYCLOPS				
P.SA	STEXT	PASS2				

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

P.BUF	STEXT	IOPRO	
P.CJP	STEXT	PASS2	
P.CVRT	STEXT	CYCLOPS	
P.DIV	STEXT	CYCLOPS	
P.EBL	STEXT	IOPRO	PASS2
P.ENT	STEXT	PASS2	
P.END	STEXT	PASS2	
P.ENP	STEXT	PASS2	
P.EQU	STEXT	PASS2	
P.ETY	STEXT	PASS2	
P.EXT	STEXT	PASS2	
P.FN	STEXT	CYCLOPS	IOPRO
P.FN2	STEXT	CYCLOPS	
P.FPCA	STEXT	PASS2	
P.FPL	STEXT	PASS2	
P.FPC	STEXT	PASS2	
P.FPW	STEXT	PASS2	
P.GBP	STEXT	PASS2	
P.GBS	STEXT	PASS2	
P.GBF	STEXT	PASS2	
P.GIF	STEXT	PASS2	
P.GRTJ	STEXT		
P.GXT	STEXT	PASS2	
P.IAIO	STEXT	IOPRO	
P.IBRW	STEXT	IOPRO	
P.IDDA	STEXT	PASS2	
P.DOB	STEXT	PASS2	

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

P.IDDC	STEXT	PASS2	
P.IED	STEXT	IOPRO	
P.JPS	STEXT	PASS2	
P.LAB	STEXT	CYCLOPS	
P.LDXI	STEXT	CYCLOPS	
P.LDX	STEXT	CYCLOPS	
P.LDXI2	STEXT	CYCLOPS	
P.LFP	STEXT	PASS2	
P.LIT	STEXT	PASS2	
P.LOAD	STEXT		
P.LST	STEXT	PASS2	
P.MLT	STEXT	CYCLOPS	
P.MPX	STEXT	CYCLOPS	
P.MPIX	STEXT	CYCLOPS	
P.NOT	STEXT	CYCLOPS	
P.OR	STEXT	CYCLOPS	
P.PST	STEXT	PASS2	
P.RET	STEXT	PASS2	
P.RST	STEXT	PASS2	
P.RTR	STEXT	PASS2	
P.RTJ	STEXT	CYCLOPS	
P.RTJI	STEXT	CYCLOPS	
P.RTJT	STEXT	IOPRO	
P.SBL	STEXT	IOPRO	PASS2
P.SBX	STEXT	CYCLOPS	
P.STR	STEXT	CYCLOPS	
TRR	STEXT	CYCLOPS	

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

P.STRL	STEXT	CYCLOPS				
P.STRT	STEXT	PROTO				
P.SUB	STEXT	CYCLOPS				
P.SVE	STEXT	PASS2				
P.TDDA	STEXT	PASS2				
P.TFP	STEXT	PASS2				
P.TMP	STEXT	PASS2				
P.TRM	STEXT	IOPRO				
P.TST	STEXT	CYCLOPS				
P.UGO	STEXT	CYCLOPS	PASS2			
P.UNM	STEXT	CYCLOPS				
P.XOR	STEXT	CYCLOPS				
P.XSB	STEXT	PASS2				
P.500IO	PASS2	IOPRO				
PACKD	????????	FTN				
PACKC	????????	FTN				
PACK	????????	FTN				
PACKO	????????	PASS4				
PACKLAB	LEXICAL	DOLOOPS	IDSTMTS			
PARM	????????	FTN	FTN	FTN	FTN	FTN
		FTN	FTN	PASS4		
PASS1	PASS1	FTN				
PASS2	PASS2	FTN				
PASS3	PASS3	FTN				
PASS4	PASS4	FTN				
PCALL	PROTO	CYCLOPS	IOPRO	PASS2		
PICKD	????????	FTN				

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
PICKC	????????	FTN
PICK	????????	FTN
PICTURE	MANAGER	LEXICAL
PLABEL	DOLOOPS	PASS1
PRINT	FTN	PASS3
PRINTD	FTN	CYCLOPS IOSTMTS LEXICAL
PRINTL	FTN	PASS3
PRINTOP	FTN	
PRINTR	FTN	PASS3
PRODLDC	STEXT	FTN
PROTONM	STEXT	FTN
QFTNSTAT	FTN	PASS4
R.WDS	CYCLOPS	IOPRO PASS2
RCOMPASS	FTN	PASS4
RCOUNT	ARITH	PASS1
READCARD	FTN	PASS1
RECVR	PASS1	DOLOOPS IOSTMTS LEXICAL
REG.EQU	PROTO	FTN
RELEASE	????????	FTN
RELMEM	????????	FTN
REW	????????	FTN
REWIND	IOPRO	PASS2
RLFULL	IOSTMTS	DOLOOPS FTN
RRLIST	FTN	PASS2
RSYMBOL	PASS1	ARITH
RSYMBOLA	PASS1	ARITH
SPINNER	LEXICAL	DOLOOPS IOSTMTS PASS1

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

SRCHF	PROTO	CYCLOPS			
TABORT	FTN	PASS4			
TYPETAB	FTN	PASS3			
TYPE	LEXICAL	PASS1			
TYPEA	LEXICAL	PASS1			
ULOC	????????	PASS4			
VETOF	PASS1	PASS2			
WCOMPASS	FTN	IOSTMTS	PASS2	PASS1	PROTO
WCOMP.99	FTN	PASS4			
WEOF	????????	FTN			
WRLIST	FTN	DOLOOPS	IOSTMTS	PASS1	
WSTKMP	FTN	PASS2			
WSYMBOL	PASS1	ARITH			
WSYMBOLA	PASS1	ARITH			
XICHAR	MANAGER	FTN	PASS4		
XLABEL	DOLOOPS	PASS1			

ITEMIZE COMPLETE.
#ITEMIZE

PROCESSING: FTM-RUNTM.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	ASCIINP	75136CD4		0192	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Q8QENGIN	Q8QINDEC	Q8QINGIN	Q8QLGIN1 Q8QLGIN2
	EXTERNAL:			Q8QIOINT	READIN	Q8QIFRMT	SAVREG RESTREG
				Q8QITERM	Q8QIOTAB	Q8QISCAN	Q8QERRDR ABORT
				Q8QTABLE	PACK		
2.	ASCIIOJT	750D655F		0203	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Q8QENCOT	Q8QINENC	Q8QINGOT	Q8QLGOT1 Q8QLGOT2
	EXTERNAL:			Q8QIOINT	Q8QIFRMT	SAVREG	RESTREG Q8QITERM
				Q8QISCAN	Q8QERRDR	ABORT	WRITOUT Q8QTABLE
				Q8QTABLE	IFNCHK		
3.	BINARY	680D912B		0073	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Q8QENBIN	Q8QENBOT	Q8QINBIN	Q8QINBOT Q8QLBIN1
				Q8QLBIN2	Q8QLBOT1	Q8QLBOT2	
	EXTERNAL:			READIN	Q8QIOINT	WRITOUT	PICKC Q8QSTAT.
				PACKC	Q8QIOTAB		
4.	BUFFER	7808996F		002A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Q8QBUFIN	Q8QBUFOT		
	EXTERNAL:			Q8QIOINT	Q8QIOTAB	READLU	WRITLU Q8QERROR
						ABORT	
5.	CONTRL	6A116342		0249	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ABPACKD	ABPICKD	ACTIVECK	ILLUNIT Q8QENTRY
				Q8QEXITS	Q8QIOINT	Q8QIOTAB	Q8QSTAT. Q8QTABLE
				READIN	RESTREG	SAVREG	USTUP ...MORE
	EXTERNAL:			Q8QERRDR	ABORT	PACKC	PICKC PARM
				OPENMEM	PARM	UST	PICKD PACKD
				PICK	PACK	PARM	UTYP
6.	FORMAT	780C8CA1		00F1	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Q8QIFRMT	Q8QISCAN	Q8QITERM	
	EXTERNAL:			Q8QERRDR	ABORT		
7.	IFUNIT	6D158A63		002E	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			IFUNIT			
	EXTERNAL:			ILLUNIT	Q8QIOTAB	PARM	UST UTYP
8.	TAPEHAND	632D611A		005C	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Q8QBACKS	Q8QENFIL	Q8QREWND	
	EXTERNAL:			ACTIVECK	WEDF	USTUP	PICKC PACKC
				Q8QSTAT.	ABPACKD	Q8QIOTAB	ILLUNIT PARM
				UTYP	REWDR	ABPICKD	BKSP Q8QIOINT
9.	Q8QARRAY	5C256D42		0023	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Q8QARRAY			

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
10.	Q8QERR0R	5A255E48		0120	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		Q8QERR0R				
	EXTERNAL:		PACK				
11.	Q8QSTP	5A278E78		0014	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		Q8QPAUSE		Q8QSTOP		
	EXTERNAL:		CTOC		PARM	Q8QEXITS	PACK
12.	ABSVALUE	7D21574E		0016	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		ABS%		DABS%	IABS%	
13.	ADEXP	6E4B9A08		007F	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		DEXP				
	EXTERNAL:		MATHE%S		MATHE%P		
14.	ADSNCS	7B188C11		0080	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		DCOS		DSIN		
	EXTERNAL:		MATHE%S		MATHE%P		
15.	AEXP	9E4A8756		0039	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		EXP				
	EXTERNAL:		MATHE%S		MATHE%P		
16.	AMATHER	761D6C57		0034	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		ARCHKI%		DVCHKI%	ENABLE%	FNCHKI%
	EXTERNAL:		MATHE%S		DVCHKI%		MATHE%P
			ENABLE		PARM	Q8QERR0R	
17.	ASNCS	6B3C913E		005E	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		COS		SIN		
	EXTERNAL:		MATHE%S		MATHE%P		
18.	ATAN	9E389E1F		0072	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		TAN				
	EXTERNAL:		MATHE%S		MATHE%P		
19.	ATANH	763B9E50		0041	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		TANH				
	EXTERNAL:		EXP				
20.	ARCTAN	7D0F9BF6		0095	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		ATAN		ATAN2		
	EXTERNAL:		MATHE%S		MATHE%P		
21.	CONVERT	770E5D76		0013	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		DFLOAT%		FLOAT%	IFIX%	
22.	DARCTAN	672D5ED9		00C3	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		DATAN		DATAN2		
	EXTERNAL:		MATHE%S		MATHE%P		
23.	DLOGS	68439020		0078	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		DLOG		DLOG10	DLOG2%	

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	MATHE%S	MATHE%P			
4.	ESRUTIL	66136142	0048	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	IAPAC	IAPA4	IAPAW	IBDB	IESR
			LOCF				
		EXTERNAL:	ABORT	PARM	PARM	PARM	PARM
25.	FCLOSE	66279373	0010	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	FCLOSE				
		EXTERNAL:	PARM	Q8QIOTAB	PICKC	PACKC	Q8QSTAT.
			CLOSE				
26.	FAULT	654E8A6F	0024	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	IARCHK	IDVCHK	IFNCHK	IDVERFL	
		EXTERNAL:	DVCHKIX	FNCHKIX	ARCHKIX	DVCHKIX	
27.	FLOATEXP	651E578E	00E0	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DED%	DED%Z1	DER%	RED%	RER%
		EXTERNAL:	ALOG	EXP	MATHE%S	MATHE%P	DLOG
			DEXP				
28.	FTNDATM	78076483	0018	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	FDATE	FTIME	SECOND		
		EXTERNAL:	DATE	PARM	TIME	PARM	
29.	FTNINT1	68078018	007E	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	FTNPACK	FTNPACKC	FTNPACKD	FTNPACKO	FTNPICK
			FTNPICKC	FTNPICKD	FTNPICKI		
		EXTERNAL:	PACK	PARM	PARM	PACKC	PACKD
			PACKD	PICK	PICKC	PICKD	PICKI
30.	FTNINT2	68077F67	002F	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	FTNCTOC	FTNCTOI	FTNULOC	FTNUST	FTNUTYP
		EXTERNAL:	CTOC	PARM	CTOI	ULOC	UST
			UTYP				
31.	FTNINT3	68077E41	0055	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	FTNALLOC	FTNCLOSE	FTNERASE	FTNMODFY	FTNOPEN
			FTNREAD	FTNRELES	FTNSEOF	FTNUNLD	FTNWRITE
		EXTERNAL:	ALLOCATE	PARM	CLOSE	ERASE	MODIFY
			OPEN	READLU	RELEASE	SEOF	UNLD
			WRITLU				
32.	FTNINT4	68077D88	000E	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	FTNPARM				
		EXTERNAL:	PARM				
33.	INTEXP	5E118B24	0076	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DEIX	IEIX	REIX		
		EXTERNAL:	MATHE%S	MATHE%P			
34.	LOGS	9340983E	004E	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	ALOG	ALOG10	ALOG2%		

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:			MATHE%S MATHE%P		
5.	MASKING	6920656E		0026	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			AND% ISHFT% NOT% JR%		XOR%
36.	MAXMIN	6920870C		0086	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			AMAXO% AMAXI% AMINO% AMINI%		DMAXI% MINI%
					DMINI% MAXO% MAXI% MINO%		
37.	MODULAR	661F6941		0049	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			AMOD% DMOD MOD%		
		EXTERNAL:			MATHE%S MATHE%P		
38.	POSSDIFF	68176643		0023	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			DDIM% DIM% IDIM%		
39.	SIGNTRAN	58147726		003D	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			DSIGN% ISIGN% SIGN%		
		EXTERNAL:			MATHE%S MATHE%P		
40.	SNGLDBLE	681F6C62		000C	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			DBLE% SNGL%		
41.	SQROOT	5D0A8D60		0030	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			DSQRT SQRT SQRTF		
		EXTERNAL:			MATHE%S MATHE%P		
42.	TRUNCATE	681C5651		001B	REL	MM/DD/YY	HH:MM:SS
		ENTRY:			AIN%T% DINT% IDINT% INT%		

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT
ABORT	????????	ASCIINP ASCIIOUT BUFFER CONTROL ESRUTIL FORMAT
ABPACKD	CONTROL	TAPEHAND
ABPICKD	CONTROL	TAPEHAND
ABSZ	ABSVALUE	
ACTIVECK	CONTROL	TAPEHAND
AINIZ	TRUNCATE	
ALLOCATE	????????	FTNINT3
ALOG	LOGS	FLOATEXP
ALOG10	LOGS	
ALOG2Z	LOGS	
AMAX0Z	MAXMIN	
AMAX1Z	MAXMIN	
AMINOZ	MAXMIN	
AMINI1Z	MAXMIN	
AMODZ	MODULAR	
ANDZ	MASKING	
ARCHKIZ	AMATHER	FAULT
ATAN	ARCTAN	
ATAN2	ARCTAN	
BKSP	????????	TAPEHAND
CLOSE	????????	FCLOSE FTNINT3
COS	ASNCS	
CTOC	????????	FTNINT2 Q8QSTP
CTOI	????????	FTNINT2
DABSZ	ABSVALUE	

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

DATAN	DARCTAN	
DAN2	DARCTAN	
DATE	????????	FTNDATM
DBLE%	SNGLDBLE	
DCDS	ADSNCS	
DDIM%	POSSDIFF	
DED%	FLOATEXP	
DED%1	FLOATEXP	
DEIX	INTEXP	
DER%	FLOATEXP	
DEXP	ADEXP	FLOATEXP
DFLOAT%	CONVERT	
DIM%	POSSDIFF	
DINT%	TRUNCATE	
DLOG	DLOGS	FLOATEXP
DLOG10	DLOGS	
DLOG2%	DLOGS	
DMAX1%	MAXMIN	
DMIN1%	MAXMIN	
DMOD	MODULAR	
DSIGN%	SIGNTRAN	
DSIN	ADSNCS	
DSQRT	SQROOT	
DVCHKI%	AMATHER	FAULT
ENABLE%	AMATHER	
ENABLE	????????	AMATHER
ERASE	????????	FTNINT3

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

EXP	AEXP	ATANH	FLOATEXP
FCLOSE	FCLOSE		
FDATE	FTNDATM		
FLOAT%	CONVERT		
FNCHKIX	AMATHER	FAULT	
FTIME	FTNDATM		
FTNALLOC	FTNINT3		
FTNCTOC	FTNINT2		
FTNCTDI	FTNINT2		
FTNCLOSE	FTNINT3		
FTNERASE	FTNINT3		
FTNMODFY	FTNINT3		
FTNOPEN	FTNINT3		
FTNPACK	FTNINT1		
FTNPACKC	FTNINT1		
FTNPACKD	FTNINT1		
FTNPACKO	FTNINT1		
FTNPICK	FTNINT1		
FTNPICKC	FTNINT1		
FTNPICKD	FTNINT1		
FTNPICKI	FTNINT1		
FTNPARM	FTNINT4		
FTNREAD	FTNINT3		
FTNRELES	FTNINT3		
FTNSEOF	FTNINT3		
FTNULJC	FTNINT2		

ITEMIZE

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

FTNUST FTNINT2

FOUTYP FTNINT2

FTNUNLD FTNINT3

FTNWRITE FTNINT3

IABS% ABSVALUE

IAPAC ESRUTIL

IAPAH ESRUTIL

IAPAW ESRUTIL

IARCHK FAULT

IBDB ESRUTIL

IDIM% POSSDIFF

IDINT% TRUNCATE

IDVCHK FAULT

IEI% INTEXP

IERR ESRUTIL

IFIX% CONVERT

IFNCHK FAULT ASCIIOUT

IFUNIT IFUNIT

ILLUNIT CONTROL IFUNIT TAPEHAND

INT% TRUNCATE

IDOVERFL FAULT

ISHFT% MASKING

ISIGN% SIGNTRAN

LOCF ESRUTIL

MATHE%S	AMATHER	ADEXP	ADSNC	AEXP	ARCTAN	ASNCS
		ATAN	DARCTAN	DLOGS	FLOATEXP	INTEXP
		LOGS	MODULAR	SIGNTRAN	SQROOT	

MATHE%P	AMATHER	ADEXP	ADSNC	AEXP	ARCTAN	ASNCS
---------	---------	-------	-------	------	--------	-------

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	ATAN LOGS	DARCTAN MODULAR	DLOGS SIGNTRAN	FLOATEXP SQROOT	INTEXP
MAX0%	MAXMIN					
MAX1%	MAXMIN					
MIN0%	MAXMIN					
MIN1%	MAXMIN					
MOD%	MODULAR					
MODIFY	????????	FTNINT3				
NOT%	MASKING					
OPENMEM	????????	CONTROL				
OPEN	????????	FTNINT3				
OR%	MASKING					
OVCHKI%	AMATHER	FAULT				
PACK	????????	ASCIIINP CONTROL	FTNINT1	Q8QERRDR	Q8QSTP	
PICKC	????????	BINARY CONTROL	FCLOSE	FTNINT1	TAPEHAND	
PACKD	????????	CONTROL	FTNINT1			
PACK0	????????	FTNINT1				
PARM	????????	AMATHER ESRUTIL FTNDATM FTNINT4	CONTROL ESRUTIL FTNINT1 IFUNIT	CONTROL ESRUTIL FTNINT1 Q8QSTP	CONTROL FCLOSE FTNINT2 TAPEHAND	ESRUTIL FTNDATM FTNINT3
PICKC	????????	BINARY CONTROL	FCLOSE	FTNINT1	TAPEHAND	
PICKD	????????	CONTROL	FTNINT1			
PICK	????????	CONTROL	FTNINT1			
PICKI	????????	FTNINT1				
Q8QARRAY	Q8QARRAY					
Q8QBUF IN	BUFFER					
Q8QBUFDOT	BUFFER					
Q8QBACKS	TAPEHAND					

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
QBQENGIN	ASCIINP					
QBQERROR	QBQERROR	AMATHER	ASCIINP	ASCIIOUT	BUFFER	CONTROL
		FORMAT				
QBQENGDT	ASCIIOUT					
QBQENBIN	BINARY					
QBQENBOT	BINARY					
QBQENTRY	CONTROL					
QBQEXITS	CONTROL	QBQSTP				
QBQENFIL	TAPEHAND					
QBQINDEC	ASCIINP					
QBQINGIN	ASCIINP					
QBQIOINT	CONTROL	ASCIINP	ASCIIOUT	BINARY	BUFFER	TAPEHAND
QBQIFRMT	FORMAT	ASCIINP	ASCIIOUT			
QBQITERM	FORMAT	ASCIINP	ASCIIOUT			
QBQIOTAB	CONTROL	ASCIINP	BINARY	BUFFER	FCLOSE	IFUNIT
		TAPEHAND				
QBQISCAN	FORMAT	ASCIINP	ASCIIOUT			
QBQINENC	ASCIIOUT					
QBQINGDT	ASCIIOUT					
QBQINBIN	BINARY					
QBQINBOT	BINARY					
QBQLGIN1	ASCIINP					
QBQLGIN2	ASCIINP					
QBQLGDT1	ASCIIOUT					
QBQLGDT2	ASCIIOUT					
QBQLBIN1	BINARY					
QBQLBIN2	BINARY					
QBQLBOT1	BINARY					

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT		
Q8QLBOT2	BINARY			
Q8QPAUSE	Q8QSTP			
Q8QREWND	TAPEHAND			
Q8QSTAT.	CONTROL	BINARY	FCLOSE	TAPEHAND
Q8QSTDP	Q8QSTP			
Q8QTABLE	CONTROL	ASCIINP	ASCIIOU	ASCIIOU
READIN	CONTROL	ASCIINP	BINARY	
READLU	????????	BUFFER	FTNINT3	
RED%	FLOATEXP			
REI%	INTEXP			
RELEASE	????????	FTNINT3		
RER%	FLOATEXP			
RESTREG	CONTROL	ASCIINP	ASCIIOU	
REW	????????	TAPEHAND		
SEWREG	CONTROL	ASCIINP	ASCIIOU	
SECOND	FTNDATM			
SEDF	????????	FTNINT3		
SIGN%	SIGNTRAN			
SIN	ASNCS			
SNGL%	SNGLDBLE			
SQRT	SQROOT			
SQRTF	SQROOT			
TAN	ATAN			
TANH	ATANH			
TIME	????????	FTNDATM		
ULOC	????????	FTNINT2		
UNLD	????????	FTNINT3		

ITEMIZE

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ENTRYPOINT

MODULE

MODULES REFERENCING THE ENTRYPOINT

UST	????????	CONTROL	FTNINT2	IFUNIT	
USTUP	CONTROL	TAPEHAND			
UTYP	????????	CONTROL	FTNINT2	IFUNIT	TAPEHAND
WEOF	????????	TAPEHAND			
WRITOUT	CONTROL	ASCIIOUT	BINARY		
WRITLU	????????	BUFFER	FTNINT3		
XOR%	MASKING				

ITEMIZE COMPLETE.

*ITEMIZE

ITEMIZE

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PROCESSING: FTN-SPCL.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	MOVW	92408978 ENTRY:		0010	REL	MM/DD/YY	HH:MM:SS
			MOVW				
2.	FILLW	62469386 ENTRY:		000D	REL	MM/DD/YY	HH:MM:SS
			FILLW				
3.	MOVC	9240898A ENTRY:		0012	REL	MM/DD/YY	HH:MM:SS
			MOVC				
4.	FILLC	76469386 ENTRY:		000D	REL	MM/DD/YY	HH:MM:SS
			FILLC				
5.	MOVT	92408972 ENTRY:		0019	REL	MM/DD/YY	HH:MM:SS
			MOVT				
6.	MOVPL	92408978 ENTRY:		0017	REL	MM/DD/YY	HH:MM:SS
			MOVPL				
7.	MOVNL	9240897A ENTRY:		0017	REL	MM/DD/YY	HH:MM:SS
			MOVNL				
8.	MOVBL	92408988 ENTRY:		0013	REL	MM/DD/YY	HH:MM:SS
			MOVBL				
9.	MOVUL	92408978 ENTRY:		0012	REL	MM/DD/YY	HH:MM:SS
			MOVUL				
10.	LDF	934899B4 ENTRY:		000B	REL	MM/DD/YY	HH:MM:SS
			LDF				
11.	STF	8C3B99AB ENTRY:		0014	REL	MM/DD/YY	HH:MM:SS
			STF				
12.	TADC	894E9A9C ENTRY:		0100	REL	MM/DD/YY	HH:MM:SS
			TADC				
13.	TDAC	89489E5C ENTRY:		0040	REL	MM/DD/YY	HH:MM:SS
			TDAC				
14.	TAXC	894E869C ENTRY:		0100	REL	MM/DD/YY	HH:MM:SS
			TAXC				
15.	TXAC	89379E5C ENTRY:		0040	REL	MM/DD/YY	HH:MM:SS
			TXAC				
16.	DAYFILE	72226190 ENTRY:		0009	REL	MM/DD/YY	HH:MM:SS
			DAYFILE				

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	DAYFILEQ				
7.	WAITEVN	63186879		0012	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	WAITEVN				
		EXTERNAL:	ABORT		MUST	PARM	PARM
18.	QARG	8E4E8D48		0050	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	QARG				
		EXTERNAL:	PARM		PACK	RETURN	
19.	MOVITC	5E1D898D		0009	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	MOVITC				
20.	MOVCTI	5E178993		0009	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	MOVCTI				
21.	FILLBYT	770D5F8A		0009	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	FILLBYT				
22.	THREAD	6A238D8C		000E	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	THREAD				
23.	UNTHREAD	581C6A6B		0008	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	UNTHREAD				
24.	MOVAA	71408989		0015	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	MOVAA				
5.	MOVUA	71408976		0014	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	MOVUA				
26.	MOVWA	71408976		0012	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	MOVWA				

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

ABORT	????????	WAITEVN		
● FILE	DAYFILE			
DAYFILEQ	????????	DAYFILE		
FILLW	FILLW			
FILLC	FILLC			
FILLBYT	FILLBYT			
LDF	LDF			
MOVA	MOVA			
MOVAA	MOVAA			
MOVCA	MOVCA			
MOVCTI	MOVCTI			
MOVITC	MOVITC			
MOVN	MOVN			
MOVP	MOVP			
● MT	MOVMT			
MOVU	MOVU			
MOVUA	MOVUA			
MOVW	MOVW			
MOVWA	MOVWA			
MUST	????????	WAITEVN		
PACK	????????	QARG		
PARM	????????	QARG	WAITEVN	WAITEVN
QARG	QARG			
RETURN	????????	QARG		
STF	STF			
TADC	TADC			
●				

ITEMIZE

09/18/84 15:14:32

ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

TAXC TAXC

TDAC TDAC

THREAD THREAD

TXAC TXAC

UNTHREAD UNTHREAD

WAITEVN WAITEVN

ITEMIZE COMPLETE.

*SAVEPF(62,BLD-PLAN.LST,FTNL,01,)

*EOJ BLD-PLAN

MP - 3 2 P R O D U C T S E T

M S T

These are the "MP-60 Software Tools". These tools are released to MP-32 Customers and Maintained by CDC Systems Technology Division. They are described in CDC/STD publication 17329105 which is produced by job MST-DGC.BLD below. MASS is described separately in CDC/STD publication 17328900.

MSTO owner last dumped on -----

MSTB owner last dumped on -----

File Name	Description	Last Build
mst.pl,mst0,__,mst0	PSRed PL	-----
mst-pl-sps.bid,mst0,01,mst0	Build next PSR Level PL	
mst-pl-sps.lst,mst1,01,mst1	Listing of above .bid job	
mst.pl,mst0,__,mst0	Next PSR Level PL	#1
mst-pl-loc.bid,mst0,01,mst0	Build PL with Local Mods	
mst-pl-loc.lst,mst1,01,mst1	Listing of above .bid job	
mst.pl,mstb,ZZ,mstb	Local (working) PL	-----
copycf.bid,mstb,01,mstb	Build COPYCF	
copycf.lst,mst1,01,mst1	Listing of above .bid job	
mst-copycf.rel,lbld,01,lbld		-----
mst-copycf.bid,lbld,01,lbld	Build Abs COPYCF	
mst-copycf.lst,lbll,01,lbll	Listing of above .bid job	
mst-copycf.abs,lbld,01,lbld		-----
copyscf.bid,mstb,01,mstb	Build COPYSCF	
copyscf.lst,mst1,01,mst1	Listing of above .bid job	
mst-cpyscf.rel,lbld,01,lbld		-----
mst-cpyscf.bid,lbld,01,lbld	Build Abs COPYSCF	
mst-cpyscf.lst,lbll,01,lbll	Listing of above .bid job	
mst-cpyscf.abs,lbld,01,lbld		-----
sysdump.bid,mstb,01,mstb	Build SYSDUMP	
sysdump.lst,mst1,01,mst1	Listing of above .bid job	
mst-sysdmp.rel,mpxa,01,mpxa		-----
tdump.bid,mstb,01,mstb	Build TDUMP	
tdump.lst,mst1,01,mst1	Listing of above .bid job	
mst-tdump.rel,lbld,01,lbld		-----
mst-tdump.bid,lbld,01,lbld	Build Abs TDUMP	
mst-tdump.lst,lbll,01,lbll	Listing of above .bid job	
mst-tdump.abs,lbld,01,lbld		-----
ed.bid,mstb,01,mstb	Build ED	
ed.lst,mst1,01,mst1	Listing of above .bid job	
mst-ed.rel,lbld,01,lbld		-----
mst-ed.bid,lbld,01,lbld	Build Abs ED	
mst-ed.lst,lbll,01,lbll	Listing of above .bid job	
mst-ed.abs,lbld,01,lbld		-----
edi.bid,mstb,01,mstb	Build EDI	
edi.lst,mst1,01,mst1	Listing of above .bid job	
mst-edi.rel,lbld,01,lbld		-----
mst-edi.bid,lbld,01,lbld	Build Abs EDI	
mst-edi.lst,lbll,01,lbll	Listing of above .bid job	
mst-edi.abs,lbld,01,lbld		-----

ratfor.bld,mstb,01,mstb	Build RATFOR	
ratfor.lst,mstl,01,mstl	Listing of above .bld job	
mst-ratfor.rel,lbld,01,lbld		-----
mst-ratfor.bld,lbld,01,lbld	Build Abs RATFOR	
mst-ratfor.lst,lbll,01,lbll	Listing of above .bld job	
mst-ratfor.abs,lbld,01,lbld		-----
mst-doc.bld,mstb,01,mstb	Document all above	
mst-doc.lst,mstl,01,mstl	Listing of above .bld job	
mst.doc,mstb,01,mstb	Listable 17329105	-----
mas.pl,mst0,__,mst0	PSRed PL	
mas-pl-sps.bld,mst0,01,mst0	Build next PSR Level PL	-----
mas-pl-sps.lst,mstl,01,mstl	Listing of above .bld job	
mas.pl,mst0,__,mst0	Next PSR Level PL	*2
mas-pl-loc.bld,mst0,01,mst0	Build PL with Local Mods	
mas-pl-loc.lst,mstl,01,mstl	Listing of above .bld job	
mas.pl,mstb,ZZ,mstb	Local (working) PL	-----
mass.bld,mstb,01,mstb	Build MASS	
mass.lst,mstl,01,mstl	Listing of above .bld job	
mst-mass.rel,lbld,01,lbld		-----
mst-mass.bld,lbld,01,lbld	Build Abs MASS	
mst-mass.lst,lbll,01,lbll	Listing of above .bld job	
mst-mass.abs,lbld,01,lbld		-----
bld-plan.txt,mstb,01,mstb	Contains this text	
bld-plan.run,mstb,01,mstb	Produce Product Build Doc	

Integration Instructions for next release:

1. None. Complete.

NOTES:

#1 This is a temporary Oldpl. It is build by mst-pl-sps.bld and then, when all is well, the first Oldpl is released and the second Oldpl becomes the base Oldpl. The mst-pl-sps.bld job is then modified to use the new PSR Level as a base and produce the next PSR Level.

Normally, the temporary Oldpl does not appear on Release Tapes.

- #2 Same as #1 above; for mas.pl.

STOP*ENDST*
*OPEN(10,MST.PL,MSTB,ZZ, ,R)
*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/23/84
 13:28:33

OLDPL AUDIT: TOTAL YANKED ACTIVE RUNNING

DECK		TOTAL	YANKED	ACTIVE	RUNNING
DECK	YANK\$\$\$	1	0	1	1
COMDECK	HISTORY	54	0	54	55
COMDECK	F-TITLE	138	0	138	193
DECK	COPYCF	183	0	183	376
COMDECK	F-COPYCF	65	0	65	441
DECK	COPYSCF	204	0	204	645
COMDECK	F-CPYSCF	57	0	57	702
DECK	SYSDUMP	1291	0	1291	1993
COMDECK	F-SYSDMP	166	0	166	2159
DECK	TDUMP	230	0	230	2389
COMDECK	F-TDUMP	91	0	91	2480
DECK	ED	4072	0	4072	6552
COMDECK	F-ED-RM	596	0	596	7148
COMDECK	F-ED-UG	1965	0	1965	9113
COMDECK	COU TLN	6	0	6	9119
COMDECK	CLINE	8	0	8	9127
COMDECK	CDEFIO	6	0	6	9133
COMDECK	CFOR	6	0	6	9139
COMDECK	CLOOK	8	0	8	9147
COMDECK	CKEYWD	10	0	10	9157
COMDECK	LUNS	13	0	13	9170
COMDECK	IBUF	5	0	5	9175
COMDECK	TITLE	5	0	5	9180
DECK	RATFOR	1749	0	1749	10929
COMDECK	F-RATFOR	609	0	609	11538
DECK	MST-DDC	9	0	9	11547

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED
LEV-AC	3	HISTORY

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	
HISTORY	51	LEV-AC
F-TITLE	138	
COPYCF	183	
F-COPYCF	65	
COPYSCF	204	
F-CPYSCF	57	
SYSDUMP	1291	
F-SYSDMP	166	
TDUMP	230	
F-TDUMP	91	
ED	2024	
F-ED-RM	596	
F-ED-UG	1965	
COU TLN	6	
CLINE	8	

CDEFIO	6
CFOR	6
CLOOK	8
CKEYWD	10
LUNS	13
IBUF	5
TITLE	5
RATFOR	1749
F-RATFOR	609
MST-DOC	9

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK	DECKS CALLING THE COMMON DECK
---------	-------------------------------

F-TITLE	MST-DOC
F-COPYCF	MST-DOC
F-CPYSCF	MST-DOC
F-SYSDMP	MST-DOC
F-TDUMP	MST-DOC
F-ED-RM	MST-DOC
F-ED-UG	MST-DOC
COU TLN	RATFOR
CLINE	RATFOR
CDEFIO	RATFOR
CFOR	RATFOR
CLOOK	RATFOR
CKEYWD	RATFOR
LUNS	RATFOR
IBUF	RATFOR
TITLE	RATFOR
F-RATFOR	MST-DOC

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK	COMMON DECKS CALLED BY THE DECK
------	---------------------------------

RATFOR	COU TLN	CLINE	CDEFIO	CFOR	CLOOK
	CKEYWD	LUNS	TITLE	IBUF	
MST-DOC	F-TITLE	F-ED-RM	F-RATFOR	F-SYSDMP	F-TDUMP
	F-COPYCF	F-CPYSCF	F-ED-UG		

NULL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

HISTORY

XREFUP FINISHED.

*CLOSE(10)

*LISTF

*JOB(ID=MST-PL-SPS.BLD)
*SCHED(CM=9,TL=9999,PL=10000,SCR=40)

This job builds a higher PSR Level release Oldpl from one of
a given level and the appropriate PSR code.

PSR code is obtained from the Systems Technology Division
(of CDC) PSR Summaries.

This portion of the job is temporary. It resequences the Level AB
OLDPL and prepares for AC generation.

*OPEN(5,MST.PL,MSTO,AB,MSTO,R)
UPDATE(F,P=5,N=6,=/,O=A,S=7)

/FINIS

*CLOSE(6)

*REWIND(7)

UPDATE(F,I=7,N=10,=/,O=A)

*CLOSE(7)

*REWIND(10)

*RELEASE(MST.PL,MSTO,AC,MSTO)

----*OPEN(10,MST.PL,MSTO,AB,MSTO,R)

UPDATE(P=10,N=20,O=A,=/)

// PLACE PSR CODE AFTER THIS LINE.

/IDENT LEV-AC

/INSERT HISTORY.3

LEV-AC

23 AUG 84

Fariss, G. B.

THIS POINT DIVIDES LEVEL AC FROM HIGHER LEVELS.

/FINIS

*SAVEPF(20,MST.PL,MSTO,AC,MSTO)

*SAVEPF(62,MST-PL-SPS.LST,MSTL,01,MSTL)

*EOJ

```
*JOB(ID=MST-PL-LOC.BLD)
*SCHED(CM=9,TL=9999,PL=10000,SCR=40)
#
# This job adds local-site modifications to the standard Oldpl
# and builds the final Oldpl (always Edition ZZ).
#
*RELEASE(MST.PL,MSTB,ZZ,MSTB)
*OPEN(10,MST.PL,MSTO,AC,MSTO,R) # Change the edition as appropriate
*UPDATE(P=10,N=20,O=A,*=/)
// PLACE LOCAL-MOD CODE AFTER THIS LINE.
/FINIS
*SAVEPF(20,MST.PL,MSTB,ZZ,MSTB)
*SAVEPF(62,MST-PL-LOC.LST,MSTL,01,MSTL)
*EOJ
```

```
*JOB(ID=COPYCF.BLD)
*SCHED(CM=10,TL=99999,PL=60000,SCR=100)
#
# This job builds the MPX/OS Utility program COPYCF.
#
*OPEN(1,MST.PL,MSTB,ZZ,MSTB,R)
*UPDATE(P=1,*=/,0,C=2)
/COMPILE COPYCF
/FINIS
*REWIND(2)
*FTN(I=2,X=3,L,R)
*SAVEPF(3,MST-COPYCF.REL,LBLD,01,LBLD)
*SAVEPF(62,COPYCF.LST,MSTL,01,MSTL)
*EOJ
```

```
*JOB(ID=MST-COPYCF.BLD)
*SCHED(CM=5,TL=99999,PL=1000,SCR=100)
*OPEN(1,MST-COPYCF.REL,LBLD,01,LBLD,R)
*OPEN(2,FTN-RUNTM.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(MST-COPYCF.ABS,LBLD,01,LBLD)
*ALLOCATE(MST-COPYCF.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,MST-COPYCF.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(MST-COPYCF.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,MST-COPYCF.LST,LBLL,01,LBLL)
*EOJ
```

*JOB(ID=COPYSCF.BLD)

*SCHED(CM=10,TL=99999,PL=600000,SCR=100)

#

This job builds the MPX/OS Utility program COPYSCF.

#

*OPEN(1,MST.PL,MSTB,ZZ,MSTB,R)

UPDATE(P=1,=/,Q,C=2)

/COMPILE COPYSCF

/FINIS

*REWIND(2)

*FTN(I=2,X=3,L,R)

*SAVEPF(3,MST-COPYSCF.REL,LBLD,01,LBLD)

*SAVEPF(62,COPYSCF.LST,MSTL,01,MSTL)

*EOJ


```
*JOB(ID=MST-CPYSCF.BLD)
*SCHED(CM=4,TL=99999,PL=1000,SCR=100)
*OPEN(1,MST-CPYSCF.REL,LBLD,01,LBLD,R)
*OPEN(2,FTN-RJNTM.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(MST-CPYSCF.ABS,LBLD,01,LBLD)
*ALLOCATE(MST-CPYSCF.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,MST-CPYSCF.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(MST-CPYSCF.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,MST-CPYSCF.LST,LBLL,01,LBLL)
*EDJ
```

```
*JOB(ID=SYSDUMP.BLD)
*SCHED(CM=10,PL=3000,TL=99999,SCR=20)
#
# This job builds the MPX/DS V3 Interpretive Dump program SYSDUMP.
#
*OPEN(10,MST.PL,MSTB,ZZ,MSTB,R)
*UPDATE(P=10,C=11,*=/,Q)
/COMPILE SYSDUMP
/FINIS
*FTN(I=11,X=12,L,R)
*SAVEPF(12,MST-SYSDUMP.REL,MPXA,01,MPXA)
*SAVEPF(62,SYSDUMP.LST,MSTL,01,MSTL)
*EOJ
```

```
*JOB(ID=TDUMP.BLD)
*SCHED(CM=10,PL=70000,TL=99999,SCR=100)
#
# This job builds the MPX/DS File/Tape Dump program TDJMP.
#
*OPEN(10,MST.PL,MSTB,ZZ,MSTB,R)
*UPDATE(Q,P=10,*=/,C=11)
/COMPILE TDUMP
/FINIS
*FTN(I=11,X=12,L,R)
*SAVEPF(12,MST-TDUMP.REL,LBLD,01,LBLD)
*SAVEPF(62,TDUMP.LST,MSTL,01,MSTL)
*EJ
```

```
*JOB(ID=MST-TDUMP.BLD)
*SCHED(CM=4,TL=99999,PL=1000,SCR=100)
*OPEN(1,MST-TDUMP.REL,LBLD,01,LBLD,R)
*OPEN(2,FTN-RUNTM.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(MST-TDUMP.ABS,LBLD,01,LBLD)
*ALLOCATE(MST-TDUMP.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,MST-TDUMP.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(MST-TDUMP.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,MST-TDUMP.LST,LBLL,01,LBLL)
*EOJ
```

```
*JOB(ID=ED.BLD)
*SCHED(CM=10,PL=9000,TL=99999,SCR=100)
#
# This job builds the batch-callable version of ED which is called
# from the MPX library by *ED.
#
*OPEN(10,MST.PL,MSTB,ZZ,MSTB,R)
*UPDATE(P=10,C=12,*=/,Q)
/IDENT BATCH
// This IDENT is not to be placed on the OLDPL. Its purpose is to
// generate the batch version of ED. (called with control card *ED.)
/I ED.1
84 IDENT ED
ED TITLE ED - Batch Callable Text Editor
/I ED.115
SPACE 1
ENTRY ED
ED EQU * Batch ED Entry Point
/I ED.62
BEDIT SET 0 Build the Batch Editor
/I ED.4072
END ED
/COMPILE ED
/FINIS
*REWIND(12)
*CMP(I=12,L,X=13,C)
*REWIND(13)
*SAVEPF(13,MST-ED.REL,LBLD,01,LBLD)
*SAVEPF(62,ED.LST,MSTL,01,MSTL)
*J
```

```
*JOB(ID=MST-ED.BLD)
*SCHED(CM=10,PL=9000,TL=99999,SCR=100)
*OPEN(13,MST-ED.REL,LBLD,01,LBLD,R)
*OPEN(14,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*OPEN(15,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*MAP
*LOAD(13,14,15)
*RELEASE(MST-ED.ABS,LBLD,01,LBLD)
*ALLOCATE(MST-ED.ABS,LBLD,01,LBLD,480,50)
*OPEN(16,MST-ED.ABS,LBLD,01,LBLD)
*ABS(16)
*CLOSE(16)
*RELEASE(MST-ED.ABS,LBLD,01,LBLD,R)
*SAVEP(62,MST-ED.LST,LBLL,01,LBLL)
*EDJ
```

*JOB(ID=EDI,BLD)

*SCHED(CM=10,PL=9000,TL=99999,SCR=100)

#

This job builds the interactive version of ED which is called
from the MPX library by *EDI. This version is only to be called
by the canned job that invokes ED for any interactive user.

The canned job is: JOB-DEFAULT,JOBS,01.

#

*OPEN(10,MST.PL,MSTB,ZZ,MSTB,R)

UPDATE(P=10,C=12,=/,Q)

/IDENT INTRCTVE

// This IDENT is not to be placed on the DLDPL. Its purpose is to
// generate the interactive version of ED. This version is only to be called
// from within the IJ default job "JOB-DEFAULT,JOBS". When it is called
// its name is *EDI.

/I ED.1

84	IDENT	EDI	
EDI	TITLE	EDI - Interactive Text Editor	

/I ED.115

	SPACE	1	
	ENTRY	EDI	
EDI	EQU	*	Interactive ED Entry Point

/I ED.62

BEDIT	SET	1	Build the Interactive Editor
-------	-----	---	------------------------------

/I ED.4072

	END	EDI	
--	-----	-----	--

/COMPILE ED

/FINIS

*REWIND(12)

*P(I=12,L,X=13,C)

*REWIND(13)

*SAVEPF(13,MST-EDI.REL,LBLD,01,LBLD)

*SAVEPF(62,EDI.LST,MSTL,01,MSTL)

*EQJ

```
*JOB(ID=MST-EDI.BLD)
*SCHED(CM=10,PL=9000,TL=99999,SCR=100)
*OPEN(13,MST-EDI.REL,LBLD,01,LBLD,R)
*OPEN(14,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*OPEN(15,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*MAP
*LOAD(13,14,15)
*RELEASE(MST-EDI.ABS,LBLD,01,LBLD)
*ALLOCATE(MST-EDI.ABS,LBLD,01,LBLD,480,50)
*OPEN(16,MST-EDI.ABS,LBLD,01,LBLD)
*ABS(16)
*CLOSE(16)
*RELEASE(MST-EDI.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,MST-EDI.LST,LBLL,01,LBLL)
*EOJ
```



```
*JOB(ID=RATFOR.BLD)
*SCHED(CM=10,TL=9999,PL=100000,SCR=20)
#
# This job builds the Kernighan & Plauger version of Ratfor as
# obtained from Addison-Wesley and Modified/Installed by CDC.
#
*OPEN(20,MST,PL,MSTB,ZZ,MSTB,R)
*UPDATE(Q,P=20,C=30)
/COMPILE RATFOR
/FINIS
*REWIND(30)
*RATFOR(I=30,F=31)
*CLOSE(30)
*REWIND(31)
*FTN(I=31,X=32,L,R)
*SAVEPF(32,MST-RATFOR.REL,LBLD,01,LBLD)
*SAVEPF(62,RATFOR.LST,MSTL,01,MSTL)
*EDJ
```

```
*JOB(ID=MST-RATFOR.BLD)
*SCHED(CM=10,TL=9999,PL=100000,SCR=20)
#
# THIS JOB RE-BUILDS MST-RATFOR.ABS,LBLD FROM MST-RATFOR.REL,LBLD.
#
# !!!WARNING!!! FTN-RUNTM.REL AND FTN-SPCL.REL ROUTINES ARE
# OBTAINED FROM THE LIBRARY. IF THESE ROUTINES
# CHANGE DURING A NEW LIBRARY BUILD, RUN THIS JOB
# USING THE NEW LIBRARY AND BUILD YET ANOTHER NEW
# LIBRARY TO INCLUDE THE NEWEST ROUTINES.
#
*OPEN(30,MST-RATFOR.REL,LBLD,01,LBLD,R)
*OPEN(33,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*OPEN(34,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*RELEASE(MST-RATFOR.ABS,LBLD,01,LBLD,0)
*ALLOCATE(MST-RATFOR.ABS,LBLD,01,LBLD,480,200)
*OPEN(36,MST-RATFOR.ABS,LBLD,01,LBLD)
*MAP
*LOAD(30,33,34)
*ABS(36)
*CLOSE(36)
*RELEASE(MST-RATFOR.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,MST-RATFOR.LST,LBLL,01,LBLL)
*EDJ
```

```
*JOB(ID=MST-DOC.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
#
# THIS JOB CREATES THE DOCUMENTATION FOR THE MST TOOLS.
# THE DOCUMENT IS "MP-60 SOFTWARE TOOL USER'S MANUAL" 17329105.
#
*OPEN(1,MST.PL,MSTB,ZZ,MSTB,R)
*UPDATE(Q,P=1,C=2,*=/)
/COMPILE MST-DOC
/FINIS
*COPYSCF(2)          # List it
*REWIND(2)
#
# The following COPYCF would not be necessary if UPDATE had
# implemented the control statement "D" option.
#
*COPYCF(2,3,,1,80)   # Remove UPDATE sequence numbers
*CLOSE(2)
*REWIND(3)
# IF CHANGES WERE MADE TO SECTIONS OF THE DOCUMENT, PAGE NUMBERING
# WITHIN THE TABLE OF CONTENTS (IN DECK F-TITLE) MAY NOW BE IN
# ERROR. RUN THIS JOB USING THE FMT PARAMETER "C" AND GENERATE A
# TABLE OF CONTENTS AT THE END OF THE DOCUMENT. THEN MAKE ADDITIONAL
# MODS TO F-TITLE TO CORRECT THE PRE-FORMATTED TABLE OF CONTENTS THAT
# APPEARS AT THE BEGINNING OF THE DOCUMENT.
#
#-- *FMT(I=3,L=4,C)
*FMT(I=3,L=4)
*VEPF(4,MST.DOC,MSTB,01,MSTB)
*VEPF(62,MST-DOC.LST,MSTL,01,MSTL)
*EOJ
```

STOP*ENDST*
*ITEMIZE

PROCESSING: MST-COPYCF.REL,LBLD,01,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	COPYCF	791A8C9A	02EC	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		COPYCF				
	EXTERNAL:		ENABLEX	IAPAC	Q8QINDEC	Q8QLGIN1	Q8QENGIN
			Q8QINGIN	Q8QARRAY	IFUNIT	ISHFTZ	Q8QINGOT
			Q8QLGOT1	Q8QENGOT	Q8QSTOP		

PROCESSING: MST-CPYSCF.REL,LBLD,01,LBLD

2.	COPYSCF	691D6760	0226	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		COPYSCF				
	EXTERNAL:		ENABLEX	IAPAC	IESR	UTYP	IAPAW
			LOCF	READLU	UST	BKSP	Q8QINGOT
			Q8QENGOT	Q8QINGIN	Q8QARRAY	Q8QLGIN1	Q8QENGIN
			IFUNIT	ISHFTZ	Q8QLGOT1	SEOF	

PROCESSING: MST-SYSDMP.REL,MPXA,01,MPXA

3.	SYSDUMP	57095411	088A	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		SYSDUMP				
	EXTERNAL:		ENABLEX	Q8QINGOT	Q8QENGOT	READBUF	Q8QBUFOT
			IFUNIT	Q8QSTOP	Q8QREWND	GETWRD	Q8QARRAY
			Q8QLGOT1	GREPLY	ISHFTZ	ANDZ	DMPEVT
			DMPQPT	DMPJCT	DMPEST	DMPDET	DMPPROG
			DMPSTATE	FTNULOC	Q8QBUFIN	DMPPAGE	

4.	GREPLY	6C0499D2	00BD	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		GREPLY				
	EXTERNAL:		Q8QINGIN	Q8QARRAY	Q8QLGIN1	Q8QENGIN	Q8QINDEC
			Q8QINGOT	Q8QENGOT			

5.	DMPEVT	650E8F34	0066	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		DMPEVT				
	EXTERNAL:		GETWRD	Q8QINGOT	Q8QLGOT1	Q8QENGOT	

6.	DMPQPT	680E8E49	0145	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		DMPQPT				
	EXTERNAL:		GETWRD	ISHFTZ	ANDZ	Q8QINGOT	Q8QLGOT1
			Q8QENGOT				

7.	DMPJCT	780E8D6F	0226	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		DMPJCT				
	EXTERNAL:		GETWRD	Q8QINGOT	Q8QLGOT1	Q8QENGOT	ISHFTZ
			ANDZ	DMPTCT	Q8QARRAY	CHKTHRD	

8.	DMPTCT	780E8B56	0435	REL	MM/DD/YY	HH:MM:SS	
	ENTRY:		DMPTCT				

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	GETWRD	ISHFTZ	ANDZ	Q8QINGOT	Q8QLGOT1
			Q8QENGOT	Q8QARRAY	DMPRET	CHKTHRD	
9.	DMPRET	760E8E33	015A	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPRET				
		EXTERNAL:	GETWRD	ISHFTZ	ANDZ	Q8QINGOT	Q8QLGOT1
			Q8QENGOT	SHOWEST	DMPLKT		
10.	DMPLKT	700E8E2D	0166	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPLKT				
		EXTERNAL:	GETWRD	ISHFTZ	ANDZ	Q8QINGOT	Q8QENGOT
			Q8QLGOT1	DMPFDT			
11.	DMPFDT	770E8EC8	00D1	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPFDT				
		EXTERNAL:	GETWRD	ISHFTZ	ANDZ	Q8QINGOT	Q8QLGOT1
			Q8QENGOT	DMPSTG			
12.	DMPSTG	740E8F0B	0081	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPSTG				
		EXTERNAL:	GETWRD	Q8QINGOT	Q8QLGOT1	Q8QENGOT	ISHFTZ
				ANDZ			
13.	SHOWEST	67145C5A	002E	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	SHOWEST				
		EXTERNAL:	GETWRD	Q8QINGOT	Q8QLGOT1	Q8QENGOT	
14.	DMPEST	680E8F06	0094	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPEST				
		EXTERNAL:	GETWRD	ISHFTZ	ANDZ	Q8QINGOT	Q8QLGOT1
			Q8QENGOT				
15.	DMPDET	760E8EE0	00BB	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPDET				
		EXTERNAL:	GETWRD	ISHFTZ	ANDZ	Q8QINGOT	Q8QLGOT1
			Q8QENGOT				
16.	CHKTHRD	74157048	0043	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	CHKTHRD				
		EXTERNAL:	ISHFTZ	ANDZ			
17.	DMPPRDG	6913682E	0061	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPPRDG				
		EXTERNAL:	Q8QINGOT	Q8QENGOT	Q8QARRAY	Q8QLGOT1	GETWRD
18.	GETWRD	66268AB3	00D5	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	GETWRD				
		EXTERNAL:	Q8QINGOT	Q8QLGOT1	Q8QENGOT	ANDZ	FTNULOC
			Q8QBUFIN	IFUNIT	Q8QSTOP		
19.	DMPSTATE	67215AB7	00B0	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DMPSTATE				
		EXTERNAL:	READBUF	ISHFTZ	Q8QINGOT	Q8QLGOT1	Q8QARRAY

Q8QENGOT

- 20. READBUF 6B15787A 0021 REL MM/DD/YY HH:MM:SS
 ENTRY: READBUF
 EXTERNAL: Q8QBUFIN IFUNIT
- 21. DMPPAGE 7A1B69E7 00A8 REL MM/DD/YY HH:MM:SS
 ENTRY: DMPPAGE
 EXTERNAL: Q8QINGOT Q8QLGOT1 Q8QENGOT Q8QARRAY

PROCESSING: MST-TDUMP.REL,LBLD,01,LBLD

- 22. TDUMP 5B4889B8 00DA REL MM/DD/YY HH:MM:SS
 ENTRY: TDUMP
 EXTERNAL: ENABLEZ QARG MAXOZ MINOZ Q8QREWND
 READBUF DMPBLK Q8QINGOT Q8QENGOT IESR
 ABORT SEOF UST Q8QLGOT1
- 23. READBUF 6B157808 0093 REL MM/DD/YY HH:MM:SS
 ENTRY: READBUF
 EXTERNAL: Q8QBUFIN IFUNIT Q8QINGOT Q8QLGOT1 Q8QENGOT
- 24. DMPBLK 6F178E21 017C REL MM/DD/YY HH:MM:SS
 ENTRY: DMPBLK
 EXTERNAL: Q8QINGOT Q8QLGOT1 Q8QENGOT Q8QARRAY Q8QSTOP

PROCESSING: MST-ED.REL,LBLD,01,LBLD

- 25. ED 9A4BB5E8 09D7 REL MM/DD/YY HH:MM:SS
 ENTRY: ED
 EXTERNAL: PARM PACKD PARM ABORT PICKD
 PORT JCIJNUM PACK UTYP PARM
 ROUTEQ PARM UST PICK CLOSE
 PARM PARM RELEASE PACKC OPEN
 PICKC SELECT JCIJSCRL BLKFSZE PARM
 SAVEQ ULOC WRITLU EXPANDQ READLU
 ALLOCATE JOBINFO

PROCESSING: MST-EDI.REL,LBLD,01,LBLD

- 26. EDI 9A4B8CFE 09C1 REL MM/DD/YY HH:MM:SS
 ENTRY: EDI
 EXTERNAL: PARM PORT JCIJNUM PACK PARM
 ABORT UTYP PARM ROUTEQ PARM
 UST PICK CLOSE PARM PARM
 RELEASE PACKC OPEN PICKD PICKC
 SELECT JCIJSCRL BLKFSZE PACKD PARM
 SAVEQ ULOC WRITLU EXPANDQ READLU
 ALLOCATE JOBINFO

PROCESSING: MST-RATFOR.REL,LBLD,01,LBLD

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
27.	RATFDR	5E1C8B4B		004E	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			RATFDR			
	EXTERNAL:			ENABLE%	PARSE	OUTTAB	OUTSTR
				REMARK	Q8QREWND	IESR	ABORT
							OUTDON
							Q8QSTOP
28.	ALLDIG	751C932E		006D	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ALLDIG			
	EXTERNAL:			TYPE			
29.	BALPAR	7C1C92EA		0099	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			BALPAR			
	EXTERNAL:			GETTOK	SYNERR	OUTSTR	PBSTR
30.	BRKNXT	65099434		005D	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			BRKNXT			
	EXTERNAL:			OUTGO	SYNERR		
31.	COACDD	6D279DA1		00E1	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			COACDD			
	EXTERNAL:			OUTTAB	OUTSTR	GETTOK	SYNERR
				ITOC	LOOKUP	OUTDON	
							OUTCH
32.	CLOWER	77119031		0057	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			CLOWER			
33.	CTOIT	68389014		0082	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			CTOIT			
34.	DEFTOK	6C1F988B		00C4	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			DEFTOK			
	EXTERNAL:			GTOK	LOOKUP	GETDEF	INSTAL
							PBSTR
35.	DOCODE	77189C04		007F	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			DOCODE			
	EXTERNAL:			OUTTAB	OUTSTR	LABGEN	OUTNUM
				SYNERR	PBSTR	OUTDON	
							GETTOK
36.	DOSTAT	7A0C8C77		0014	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			DOSTAT			
	EXTERNAL:			OUTCON			
37.	EATUP	6A4E8A90		00E1	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			EATUP			
	EXTERNAL:			GETTOK	PBSTR	SYNERR	OUTSTR
38.	ELSEIF	711D8C86		0014	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ELSEIF			
	EXTERNAL:			OUTGO	OUTCON		
39.	EQUAL	6E3E8A37		0067	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			EQUAL			

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
40.	ERROR	683D8D79		0017	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ERROR			
	EXTERNAL:			REMARK	QBQREWND	IESR	ABORT
41.	FORCOD	6A1C8C4F		013F	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			FORCOD			
	EXTERNAL:			LABGEN	OUTCJN	GETTOK	SYNERR
				OUTTAB	EATUP	OUTDON	OUTNUM
				OUTCH	OUTGO	LENGTH	SCOPY
42.	FORS	99408D3E		004E	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			FORS			
	EXTERNAL:			OUTNUM	LENGTH	OUTTAB	OUTSTR
				OUTGO	OUTCON		OUTDON
43.	GETCH	704A89BD		01DF	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			GETCH			
	EXTERNAL:			QBQINGIN	QBQLGIN1	QBQENGIN	IFUNIT
				QBQINGOT	QBQLGOT1	QBQENGOT	IESR
				CLOWER	TYPE	HEADER	PUTSRC
							ISHFTX
							ABORT
							INMAP
44.	GETDEF	73248B06		0095	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			GETDEF			
	EXTERNAL:			NGETCH	REMARK	GTOK	ERROR
45.	GETTOK	691F8AA7		00E0	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			GETTOK			
	EXTERNAL:			DEFTOK	EQUAL	SYNERR	TYPE
				REMARK	CTOIT	ERROR	QBQREWND
							LOOKUP
46.	GTOK	983B8EC7		01CD	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			GTOK			
	EXTERNAL:			NGETCH	PUTBAK	TYPE	SYNERR
				OUTCH	RELATE		OUTDON
47.	HEADER	72189E65		0036	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			HEADER			
	EXTERNAL:			FDATE	FTIME	QBQINGOT	QBQARRAY
				QBQENGOT		QBQLGOT1	
48.	IFCODE	72249C7C		0014	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			IFCODE			
	EXTERNAL:			LABGEN	IFGO		
49.	IFGO	96499877		0019	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			IFGO			
	EXTERNAL:			OUTTAB	OUTSTR	BALPAR	OUTCH
							OUTGO
50.	INITKW	6B0A9681		000A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			INITKW			
	EXTERNAL:			INSTAL			

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
51.	INMAP	6641923D		0061	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			INMAP			
52.	INSTAL	75158C31		005A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			INSTAL			
	EXTERNAL:			LENGTH	PUTLIN	REMARK	SCOPY
53.	ITOC	963B8FEA		0080	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ITOC			
	EXTERNAL:			IABS%	MOD%		
54.	LABELC	672B9D6C		002E	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LABELC			
	EXTERNAL:			LENGTH	SYNERR	OUTSTR	OUTTAB
55.	LABGEN	6E209D53		0045	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LABGEN			
56.	LENGTH	5F229146		0052	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LENGTH			
57.	LEX	934A86D0		00EF	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LEX			
	EXTERNAL:			GETTOK	ALLDIG	EQUAL	
58.	LOOKJP	5E109006		008E	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LOOKUP			
	EXTERNAL:			SCOPY			
59.	NGETCH	6E209A2A		0061	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			NGETCH			
	EXTERNAL:			GETCH			
60.	OTHERC	5E189784		0016	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OTHERC			
	EXTERNAL:			OUTTAB	OUTSTR	EATUP	OUTDON
61.	OUTCH	683A8B68		0031	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OUTCH			
	EXTERNAL:			OUTDON			
62.	OUTCON	610C8B80		001C	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OUTCON			
	EXTERNAL:			OUTNUM	OUTTAB	OUTSTR	OUTDON
63.	OUTDON	610C8B84		0017	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OUTDON			
	EXTERNAL:			PUTLIN			
64.	OUTGO	613A8B83		0015	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OUTGO			
	EXTERNAL:			OUTTAB	OUTSTR	OUTNUM	OUTDON

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME				
65.	OUTMAP	6F0A8B3A		0058	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			OUTMAP							
66.	OUTNUM	580D8B68		0029	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			OUTNUM							
	EXTERNAL:			ITDC				OUTCH			
67.	OUTSTR	5C088B1C		0070	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			OUTSTR							
	EXTERNAL:			OUTCH				OUTNUM			
68.	OUTTAB	6F188B79		0012	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			OUTTAB							
	EXTERNAL:			OUTCH							
69.	PARSE	6A4E8BAC		01D4	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			PARSE							
	EXTERNAL:			RATPRM		INITKW	LEX	IFCODE		DDCODE	
				WHILEC		FORCOD	REPCOD	LABELC		CDACOD	
				ELSEIF		SYNERR	ERROR	OTHERC		BRKNXT	
				PBSTR		UNSTAK					
70.	PBSTR	5D4D8C67		0024	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			PBSTR							
	EXTERNAL:			LENGTH				PUTBAK			
71.	PUTBAK	6E0F8B7F		001E	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			PUTBAK							
	EXTERNAL:			ERROR							
72.	PUTCH	673A8B38		0064	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			PUTCH							
	EXTERNAL:			Q8QINGOT		Q8QLGOT1	Q8QENGOT	OUTMAP			
73.	PUTLIN	660C8B6B		0028	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			PUTLIN							
	EXTERNAL:			PUTCH							
74.	PUTSRC	5D178AAF		00DD	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			PUTSRC							
	EXTERNAL:			Q8QINGOT		Q8QLGOT1	Q8QENGOT				
75.	RATPRM	5B218B05		008A	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			RATPRM							
	EXTERNAL:			QARG		ERROR	Q8QREWND				
76.	RELATE	592592A3		00F8	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			RELATE							
	EXTERNAL:			NGETCH		PUTBAK	SCOPY	LENGTH			
77.	REMARK	5B1F90C0		01DE	REL	MM/DD/YY	HH:MM:SS				
	ENTRY:			REMARK							

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	Q8QINGOT	Q8QLGOT1	Q8QENGOT		
3.	REPCDD	5E268F7E	001E	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	REPCDD				
		EXTERNAL:	OUTCON	LABGEN			
79.	SCOPY	534C9055	003A	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	SCOPY				
80.	SYNERR	5A04915E	003C	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	SYNERR				
		EXTERNAL:	REMARK	PUTSRC			
81.	TYPE	8B368F2D	006D	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	TYPE				
82.	UNSTAK	69168BDC	00AF	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	UNSTAK				
		EXTERNAL:	OUTCON	DOSTAT	WHILES	FORS	UNTILS
83.	UNTILS	5E0E8B29	0061	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	UNTILS				
		EXTERNAL:	OUTNUM	LEX	IFGO	OUTGO	OUTCON
84.	WHILEC	63249673	0020	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	WHILEC				
		EXTERNAL:	OUTCON	LABGEN	OUTNUM	IFGO	
5.	WHILES	6314967F	0014	REL	MM/DD/YY HH:MM:SS		
		ENTRY:	WHILES				
		EXTERNAL:	OUTGO	OUTCON			

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

ABORT	????????	ED TDUMP	EDI	ERROR	GETCH	RATFOR
ALLDIG	ALLDIG	LEX				
ALLOCATE	????????	ED	EDI			
AND%	????????	CHKTHRD DMPLKT GETWRD	DMPDET DMPQPT SYSDUMP	DMPEST DMPRET	DMPFDT DMPSGT	DMPJCT DMPTCT
BALPAR	BALPAR	IFGD				
BKSP	????????	COPYSCF				
BLKFSZE	????????	ED	EDI			
BRKNXT	BRKNXT	PARSE				
CDACOD	CDACOD	PARSE				
CHKTHRD	CHKTHRD	DMPJCT	DMPTCT			
CLOSE	????????	ED	EDI			
CLOWER	CLOWER	GETCH				
COPYCF	COPYCF					
COPYSCF	COPYSCF					
CTOIT	CTOIT	GETTOK				
DEFTOK	DEFTOK	GETTOK				
DMPBLK	DMPBLK	TDUMP				
DMPDET	DMPDET	SYSDUMP				
DMPEVT	DMPEVT	SYSDUMP				
DMPEST	DMPEST	SYSDUMP				
DMPFDT	DMPFDT	DMPLKT				
DMPJCT	DMPJCT	SYSDUMP				
DMPLKT	DMPLKT	DMPRET				
DMPPROG	DMPPROG	SYSDUMP				
DMPPAGE	DMPPAGE	SYSDUMP				

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

DMPQPT	DMPQPT	SYSDUMP				
DMPRET	DMPRET	DMPTCT				
DMPSTATE	DMPSTATE	SYSDUMP				
DMPSGT	DMPSGT	DMPFDT				
DMPTCT	DMPTCT	DMPJCT				
DOCODE	DOCODE	PARSE				
DOSTAT	DOSTAT	UNSTAK				
EATUP	EATUP	FORCOD	OTHERC			
ED	ED					
EDI	EDI					
ELSEIF	ELSEIF	PARSE				
ENABLEX	????????	COPYCF	COPYSCF	RATFOR	SYSDUMP	TDUMP
EQUAL	EQUAL	GETTOK	LEX			
ERROR	ERROR	GETDEF	GETTOK	PARSE	PUTBAK	RATPRM
EXPANDQ	????????	ED	EDI			
FDATE	????????	HEADER				
FORCOD	FORCOD	PARSE				
FORS	FORS	UNSTAK				
FTIME	????????	HEADER				
FTNULDC	????????	GETWRD	SYSDUMP			
GETCH	GETCH	NGETCH				
GETDEF	GETDEF	DEFTOK				
GETTOK	GETTOK	BALPAR LEX	CDACOD	DOCODE	EATUP	FORCOD
GETWRD	GETWRD	DMPDET DMPPLKT DMPTCT	DMPEVT DMPPROG SHOWEST	DMPEST DMPQPT SYSDUMP	DMPFDT DMPRET	DMPJCT DMPSGT
GREPLY	GREPLY	SYSDUMP				

ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

GTDK	GTDK	DEFTOK	GETDEF			
HEADER	HEADER	GETCH				
IABS%	????????	ITOC				
IAPAC	????????	COPYCF	COPYSCF			
IAPAW	????????	COPYSCF				
IESR	????????	COPYSCF	ERROR	GETCH	RATFOR	TDUMP
IFCODE	IFCODE	PARSE				
IFGO	IFGO	IFCODE	UNTILS	WHILEC		
IFUNIT	????????	COPYCF	COPYSCF	GETCH	GETWRD	READBUF
		READBUF	SYSDUMP			
INITKW	INITKW	PARSE				
INMAP	INMAP	GETCH				
INSTAL	INSTAL	DEFTOK	INITKW			
ISHFT%	????????	CHKTHRD	COPYCF	COPYSCF	DMPDET	DMPEST
		DMPFDT	DMPJCT	DMPPLKT	DMPQPT	DMPRET
		DMPSGT	DMPSTATE	DMPTCT	GETCH	SYSDUMP
ITOC	ITOC	CDACDD	OUTNUM			
JCIJNUM	????????	ED	EDI			
JCIJSCRL	????????	ED	EDI			
JOBINFO	????????	ED	EDI			
LABELC	LABELC	PARSE				
LABGEN	LABGEN	DOCODE	FORCDD	IFCODE	REPCDD	WHILEC
LENGTH	LENGTH	FORCDD	FORS	INSTAL	LABELC	PBSTR
		RELATE				
LEX	LEX	PARSE	UNTILS			
LOCF	????????	COPYSCF				
LOOKUP	LOOKUP	CDACDD	DEFTOK	GETTOK		
MAXO%	????????	TDUMP				
NO%	????????	TDUMP				

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
MODZ	????????	ITOC				
NGETCH	NGETCH	GETDEF	GTOK	RELATE		
OPEN	????????	ED	EDI			
OTHERC	OTHERC	PARSE				
OUTCH	OUTCH	CDACOD OUTSTR	FORCOD OUTTAB	GTOK	IFGO	OUTNUM
OUTCON	OUTCON	DOSTAT UNSTAK	ELSEIF UNTILS	FORCOD WHILEC	FORS WHILES	REPCOD
OUTDON	OUTDON	CDACOD OTHERC	DOCODE OUTCH	FORCOD OUTCON	FORS OUTGO	GTOK RATFOR
OUTGO	OUTGO	BRKNXT UNTILS	ELSEIF WHILES	FORCOD	FORS	IFGO
OUTMAP	OUTMAP	PUTCH				
OUTNUM	OUTNUM	DOCODE OUTSTR	FORCOD UNTILS	FORS WHILEC	OUTCON	OUTGO
OUTSTR	OUTSTR	BALPAR FORS OUTGO	CDACOD IFGO RATFOR	DOCODE LABELC	EATUP OTHERC	FORCOD OUTCON
OUTTAB	OUTTAB	CDACOD LABELC	DOCODE OTHERC	FORCOD OUTCON	FORS OUTGO	IFGO RATFOR
PACKD	????????	ED	EDI			
PACK	????????	ED	EDI			
PACKC	????????	ED	EDI			
PARM	????????	ED ED EDI	ED ED EDI	ED EDI EDI	ED EDI EDI	ED EDI
PARSE	PARSE	RATFOR				
PBSTR	PBSTR	BALPAR PARSE	DEFTOK	DOCODE	EATUP	FORCOD
PICKD	????????	ED	EDI			
PICK	????????	ED	EDI			
PICKC	????????	ED	EDI			

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

PORT	????????	ED	EDI			
PUTBAK	PUTBAK	GTOK	PBSTR	RELATE		
PUTCH	PUTCH	PUTLIN				
PUTLIN	PUTLIN	INSTAL	OUTDON			
PUTSRC	PUTSRC	GETCH	SYNERR			
QBQARRAY	????????	COPYCF DMPPAGE SYSDUMP	COPYSCF DMPSTATE	DMPBLK DMPTCT	DMPJCT GREPLY	DMPPROG HEADER
QBQBUFOT	????????	SYSDUMP				
QBQBUFIN	????????	GETWRD	READBUF	READBUF	SYSDUMP	
QBQENGIN	????????	COPYCF	COPYSCF	GETCH	GREPLY	
QBQENGDT	????????	COPYCF DMPEST DMPPAGE DMPTCT PUTCH SYSDUMP	COPYSCF DMPFDT DMPQPT GETCH PUTSRC TDUMP	DMPBLK DMPJCT DMPRET GETWRD READBUF	DMPDET DMPLKT DMPSGT GREPLY REMARK	DMPEVT DMPPROG DMPSTATE HEADER SHOWEST
QBQINDEC	????????	COPYCF	GREPLY			
QBQINGIN	????????	COPYCF	COPYSCF	GETCH	GREPLY	
QBQINGOT	????????	COPYCF DMPEST DMPPAGE DMPTCT PUTCH SYSDUMP	COPYSCF DMPFDT DMPQPT GETCH PUTSRC TDUMP	DMPBLK DMPJCT DMPRET GETWRD READBUF	DMPDET DMPLKT DMPSGT GREPLY REMARK	DMPEVT DMPPROG DMPSTATE HEADER SHOWEST
QBQLGIN1	????????	COPYCF	COPYSCF	GETCH	GREPLY	
QBQLGOT1	????????	COPYCF DMPEST DMPPAGE DMPTCT PUTSRC TDUMP	COPYSCF DMPFDT DMPQPT GETCH READBUF	DMPBLK DMPJCT DMPRET GETWRD REMARK	DMPDET DMPLKT DMPSGT HEADER SHOWEST	DMPEVT DMPPROG DMPSTATE PUTCH SYSDUMP
QBQREWND	????????	ERROR TDUMP	GETTOK	RATFOR	RATPRM	SYSDUMP
QBQSTOP	????????	COPYCF	DMPBLK	GETWRD	RATFOR	SYSDUMP
QBQG	????????	RATPRM	TDUMP			

ITEMIZE

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

RATFOR	RATFOR					
RATPRM	RATPRM	PARSE				
READLU	????????	COPYSCF	ED	EDI		
READBUF	READBUF	DMPSTATE	SYSDUMP	TDUMP		
READBUF	READBUF	DUPLICATE	ENTRYPOINT			
RELATE	RELATE	GTOK				
RELEASE	????????	ED	EDI			
REMARK	REMARK	ERROR	GETDEF	GETTOK	INSTAL	RATFOR
		SYNERR				
REPCOD	REPCOD	PARSE				
ROUTEQ	????????	ED	EDI			
SAVEQ	????????	ED	EDI			
SCOPY	SCOPY	FORCOD	INSTAL	LOOKUP	RELATE	
SELECT	????????	ED	EDI			
SCF	????????	COPYSCF	TDUMP			
SHOWEST	SHOWEST	DMPRET				
SYNERR	SYNERR	BALPAR	BRKNXT	CDACOD	DOCODE	EATUP
		FORCOD	GETTOK	GTOK	LABELC	PARSE
SYSDUMP	SYSDUMP					
TDUMP	TDUMP					
TYPE	TYPE	ALLDIG	GETCH	GETTOK	GTOK	
ULOC	????????	ED	EDI			
UNSTAK	UNSTAK	PARSE				
UNTILS	UNTILS	UNSTAK				
UST	????????	COPYSCF	ED	EDI	TDUMP	
UTYP	????????	COPYSCF	ED	EDI		
WHILEC	WHILEC	PARSE				
WHILES	WHILES	UNSTAK				

ITEMIZE

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ENTRYPOINT

MODULE

MODULES REFERENCING THE ENTRYPOINT

WRITLU

????????

ED

EDI

ITEMIZE COMPLETE.

*OPEN(10,MAS.PL,MSTB,ZZ, ,R)

*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/23/84
 15:37:39

OLDPL AUDIT:		TOTAL	YANKED	ACTIVE	RUNNING
DECK	YANK\$\$\$	1	0	1	1
DECK	MASS	284	0	284	285
DECK	BLG032	33	0	33	318
DECK	CODE32	516	0	516	834
DECK	CONHEX	17	0	17	851
DECK	CREAD32	90	0	90	941
DECK	CROSS32	97	0	97	1038
DECK	DEAD32	226	0	226	1264
DECK	EVAL32	47	0	47	1311
DECK	EVALU8	119	0	119	1430
DECK	INIT32	43	0	43	1473
DECK	LIST32	209	0	209	1682
DECK	MAP32	131	0	131	1813
DECK	PSEUDO32	383	0	383	2196
DECK	RCROSS32	69	0	69	2265
DECK	TABLES32	188	0	188	2453
DECK	VALUE32	66	0	66	2519
COMDECK	HISTORY	19	0	19	2538

DECKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED
LEV-AC	3	HISTORY

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	
MASS	284	
BLG032	33	
CODE32	516	
CONHEX	17	
CREAD32	90	
CROSS32	97	
DEAD32	226	
EVAL32	47	
EVALU8	119	
INIT32	43	
LIST32	209	
MAP32	131	
PSEUDO32	383	
RCROSS32	69	
TABLES32	188	
VALUE32	66	
HISTORY	16	LEV-AC

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK	DECKS CALLING THE COMMON DECK

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK COMMON DECKS CALLED BY THE DECK

ALL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

HISTORY

XREFUP FINISHED.

*CLOSE(10)

*LISTF

```
*JOB(ID=MASS.BLD)
*SCHED(CM=12,TL=99999,PL=60000,SCR=100)
#
# This job builds the MASS Microcode Assembler.
#
*OPEN(10,MAS.PL,MSTB,ZZ,MSTB,R)
*UPDATE(C,P=10,Q,*=/)
/COMPILE MASS
/FINIS
*REWIND(56)
*CMP(I=56,X,C,L)
*REWIND(56)
*UPDATE(C,P=10,Q,*=/)
/C BLG032
/C CODE32
/C CONHEX
/C CREAD32
/C CROSS32
/C DEAD32
/C EVAL32
/C EVALU8
/C INIT32
/C LIST32
/C MAP32
/C PSEUD032
/C RCROSS32
/C TABLES32
/C VALUE32
/FINIS
*REWIND(56)
*FTN(I=56,X,L,R)
*SAVEPF(57,MST-MASS.REL,LBLD,01,LBLD)
*SAVEPF(62,MASS.LST,MSTL,01,MSTL)
*EDJ
```



```
*JOB(ID=MST-MASS.BLD)
*SCHED(CM=8,TL=99999,PL=1000,SCR=100)
*OPEN(1,MST-MASS.REL,LBLD,01,LBLD,R)
*OPEN(2,FTN-RUNTM.REL,LBLD,01,LBLD,R)
*OPEN(3,SYS-TSKMON.REL,LBLD,01,LBLD,R)
*OPEN(4,SYS-BKDBK.REL,LBLD,01,LBLD,R)
*RELEASE(MST-MASS.ABS,LBLD,01,LBLD)
*ALLOCATE(MST-MASS.ABS,LBLD,01,LBLD,480,100)
*OPEN(10,MST-MASS.ABS,LBLD,01,LBLD,W)
*MAP
*LOAD(1,2,3,4)
*ABS(10)
*CLOSE(10)
*RELEASE(MST-MASS.ABS,LBLD,01,LBLD,R)
*SAVEPF(62,MST-MASS.LST,LBLL,01,LBLL)
*EDJ
```

STOP*ENDST*
*ITEMIZE

PROCESSING: MST-MASS.REL,LBLD,01,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	MASS	924E8C12		007A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		IFL		IPCHR	MASS	
	EXTERNAL:		INIT32		CODE32	LIST32	CREAD32 PSEUDO32
			PARM		DATE	PARM	TIME OPENMEM
			PARM				
2.	BLG032	8A31983E		0052	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		BLG032				
	EXTERNAL:		Q8QINGOT		Q8QARRAY	Q8QLGOT1	Q8QENGOT Q8QENFIL
3.	CODE32	892E9390		080A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		CODE32				
	EXTERNAL:		LIST32		VALUE	IPCHR	ISHFT%
4.	CONHEX	7708916A		002D	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		CONHEX				
	EXTERNAL:		ISHFT%				
5.	CREAD32	782A876F		012F	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		CREAD32				
	EXTERNAL:		IFUNIT		Q8QINGIN	Q8QLGIN1	Q8QENGIN Q8QINGOT
			Q8QLGOT1		Q8QENGOT	IPCHR	Q8QREWND Q8QSTOP
6.	CROSS32	692A7D26		0166	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		CROSS32				
	EXTERNAL:		RCROSS32		Q8QINGOT	Q8QARRAY	Q8QLGOT1 Q8QENGOT
			ISHFT%				
7.	DEAD32	88389A83		0418	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		DEAD32				
	EXTERNAL:		Q8QINGOT		Q8QLGOT1	Q8QARRAY	Q8QENGOT CONHEX
			MINO%		Q8QINENC	Q8QENFIL	
8.	EVAL	9A399E2B		0068	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		EVAL				
9.	EVALU8	65219D7C		0117	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		EVALU8				
	EXTERNAL:		LIST32		Q8QINGOT	Q8QARRAY	Q8QLGOT1 Q8QENGOT
			VALUE				
10.	INIT32	832F9650		0038	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		INIT32				
	EXTERNAL:		IFUNIT		Q8QREWND	LIST32	
11.	LIST32	80348937		0354	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		LIST32				

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	Q8QINGOT	Q8QENGJT	Q8QLGOT1	Q8QARRAY	ISHFT%
2.	MAP32	804E8CDC	02D0	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	MAP32				
		EXTERNAL:	Q8QINGOT	Q8QARRAY	Q8QLGOT1	Q8QENGOT	
13.	PSEUDO32	680D8280	04C8	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	PSEUDO32				
		EXTERNAL:	TABLE32	EVAL	LIST32	ISHFT%	IPCHR
			XOR%	NOT%	BLG032	DEAD32	MAP32
			CROSS32	INIT32	Q8QSTOP	VALUE	CREAD32
			EVALU8				
14.	RCROSS32	5A1979E1	009D	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	RCROSS32	WCROSS			
		EXTERNAL:	IFUNIT	Q8QINBOT	Q8QLBOT1	Q8QENBOT	Q8QREWND
			IFL	Q8QINBIN	Q8QLBIN1	Q8QENBIN	Q8QSTOP
15.	TABLE32	663B89FF	0194	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	TABLE32				
		EXTERNAL:	LIST32	ISHFT%	WCROSS		
16.	VALUE	644E92E6	00A4	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	VALUE				
		EXTERNAL:	IPCHR	TABLE32	EVAL		

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
BLG032	BLG032	PSEUD032				
CODE32	CODE32	MASS				
CONHEX	CONHEX	DEAD32				
CREAD32	CREAD32	MASS	PSEUD032			
CROSS32	CROSS32	PSEUD032				
DATE	????????	MASS				
DEAD32	DEAD32	PSEUD032				
EVAL	EVAL	PSEUD032	VALUE			
EVALU8	EVALU8	PSEUD032				
IFL	MASS	RCROSS32				
IFUNIT	????????	CREAD32	INIT32	RCROSS32		
INIT32	INIT32	MASS	PSEUD032			
IPCHR	MASS	CODE32	CREAD32	PSEUD032	VALUE	
ISHFTX	????????	CODE32	CONHEX	CROSS32	LIST32	PSEUD032
LIST32	LIST32	CODE32	EVALU8	INIT32	MASS	PSEUD032
MAP32	MAP32	PSEUD032				
MASS	MASS					
MINOX	????????	DEAD32				
NOTX	????????	PSEUD032				
OPENMEM	????????	MASS				
PARM	????????	MASS	MASS	MASS		
PSEUD032	PSEUD032	MASS				
QBQARRAY	????????	BLG032	CROSS32	DEAD32	EVALU8	LIST32
QBQENGOT	????????	BLG032	CREAD32	CROSS32	DEAD32	EVALU8
		LIST32	MAP32			

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

Q8QENFIL	????????	BLG032	DEAD32			
Q8QENGIN	????????	CREAD32				
Q8QENBOT	????????	RCROSS32				
Q8QENBIN	????????	RCROSS32				
Q8QINGOT	????????	BLG032 LIST32	CREAD32 MAP32	CRJSS32	DEAD32	EVALU8
Q8QINGIN	????????	CREAD32				
Q8QINENC	????????	DEAD32				
Q8QINBOT	????????	RCROSS32				
Q8QINBIN	????????	RCROSS32				
Q8QLGOT1	????????	BLG032 LIST32	CREAD32 MAP32	CRJSS32	DEAD32	EVALU8
Q8QLGIN1	????????	CREAD32				
Q8QLBOT1	????????	RCROSS32				
Q8QLBIN1	????????	RCROSS32				
Q8QREWND	????????	CREAD32	INIT32	RCROSS32		
Q8QSTOP	????????	CREAD32	PSEUDO32	RCROSS32		
RCROSS32	RCROSS32	CROSS32				
TABLE32	TABLE32	PSEUDO32	VALUE			
TIME	????????	MASS				
VALUE	VALUE	CODE32	EVALU8	PSEUDO32		
WCROSS	RCROSS32	TABLE32				
XOR%	????????	PSEUDO32				

ITEMIZE COMPLETE.

*SAVEPF(62,BLD-PLAN.LST,MSTL,01,)

*EOJ BLD-PLAN

MP - 3 2 P R O D U C T S E T

Z 8 0

These are the Z80 cross products. They are used to generate the various download modules for MPCLA execution. They were obtained from MICROTEC in Sunnyvale and were implemented on the MP-32 by G. Fariss. MICROTEC no longer supports this version of the assembler and loader.

Z800/Z80B owner last dumped on -----

File Name	Description	Last Build
z80.pl,z800,__,z800	PSRed PL	-----
z80-pl-sps.bld,z800,01,z800	Build next PSR Level PL	
z80-pl-sps.lst,z801,01,z801	Listing of above .bld job	
z80.pl,z800,__,z800	Next PSR Level PL	#1
z80-pl-loc.bld,z800,01,z800	Build PL with Local Mods	
z80-pl-loc.lst,z801,01,z801	Listing of above .bld job	
z80.pl,z80b,ZZ,z80b	Local (working) PL	-----
z80asm.pld,z80b,01,z80b	Build Z80ASM	
z80asm.lst,z801,01,z801	Listing of above .bld job	
z80-z80asm.rel,lbld,01,lbld		-----
z80-z80asm.bld,lbld,01,lbld	Build Abs Z80ASM	
z80-z80asm.lst,lbll,01,lbll	Listing of above .bld job	
z80-z80asm.abs,lbld,01,lbld		-----
z80ldr.bld,z80b,01,z80b	Build Z80LDR	
z80ldr.lst,z801,01,z801	Listing of above .bld job	
z80-z80ldr.rel,lbld,01,lbld		-----
z80-z80ldr.bld,lbld,01,lbld	Build Abs Z80LDR	
z80-z80ldr.lst,lbll,01,lbll	Listing of above .bld job	
z80-z80ldr.abs,lbld,01,lbld		-----
bld-plan.txt,z80b,01,z80b	Contains this text	
bld-plan.run,z80b,01,z80b	Produce Product Build Doc	

Integration Instructions for next release:

1. None. Complete.

NOTES:

*1 This is a temporary Oldpl. It is build by z80-pl-sps.bld and then, when all is well, the first Oldpl is released and the second Oldpl becomes the base Oldpl. The z80-pl-sps.bld job is then modified to use the new PSR Level as a base and produce the next PSR Level.

Normally, the temporary Oldpl does not appear on Release Tapes.

STOP*ENDST*

*OPEN(10,Z80.PL,Z80B,ZZ, ,R)

*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 08/23/84
 16:23:17

OLDPL AUDIT: TOTAL YANKED ACTIVE RUNNING

DECK	YANK\$\$\$	TOTAL	YANKED	ACTIVE	RUNNING
DECK	YANK\$\$\$	1	0	1	1
COMDECK	HISTORY	16	0	16	17
DECK	LHIST	2	0	2	19
COMDECK	Z80ADSC	165	0	165	184
COMDECK	Z80ACMN	28	0	26	210
COMDECK	Z80LDSC	115	0	115	325
COMDECK	Z80LCMN	29	0	29	354
DECK	QARG	144	0	144	498
DECK	Z80CASM	246	0	41	539
DECK	Z80AINIT	343	0	308	847
DECK	Z80AIO	200	0	152	999
DECK	Z80API	528	0	503	1502
DECK	Z80AP2	364	0	339	1841
DECK	Z80ACD	480	0	456	2297
DECK	Z80ADPRD	187	0	164	2461
DECK	Z80ADPCD	367	0	343	2804
DECK	Z80ALBL	115	0	92	2896
DECK	Z80ASYM	107	0	84	2980
DECK	Z80ASCN	490	0	467	3447
DECK	Z80ACST	137	0	114	3561
DECK	Z80AMCD	184	0	160	3721
DECK	Z80AMCR	108	0	84	3805
DECK	Z80ALOT	137	0	105	3910
DECK	Z80ADUT	323	0	300	4210
DECK	Z80AROT	104	0	81	4291
DECK	Z80ASYT	189	0	164	4455
DECK	Z80AXRF	85	0	61	4516
DECK	Z80AVHX	54	0	31	4547
DECK	Z80AAHX	64	0	41	4588
DECK	Z80ATST	526	0	526	5114
DECK	Z80LINK	618	0	610	5724
DECK	Z80LINT	160	0	156	5880
DECK	Z80LIO	141	0	125	6005
DECK	Z80LOBJ	540	0	538	6543
DECK	Z80LLBL	81	0	81	6624
DECK	Z80LSYM	112	0	111	6735
DECK	Z80LSCN	75	0	75	6810
DECK	Z80LNMS	87	0	86	6896
DECK	Z80LCIN	93	0	93	6989
DECK	Z80LDUT	177	0	177	7166
DECK	Z80LHIN	54	0	54	7220
DECK	Z80LVHX	46	0	46	7266
DECK	Z80LAHX	56	0	56	7322
DECK	Z80LEQU	118	0	17	7339
DECK	Z80LERR	144	0	144	7483
DECK	Z80LTST	70	0	70	7553

CKS MODIFIED BY A GIVEN IDENT:

IDENT	LINES	DECKS OR COMDECKS MODIFIED				
AINSTALL	261	Z80ACMN	Z80CASM	Z80AINIT	Z80AIO	Z80AMCR
		Z80ALOT	Z80ASYT			

ACOMMON	671	Z80CASM	Z80AINIT	Z80AID	Z80AP1	Z80AP2
		Z80ACD	Z80AOPRD	Z80AOPCD	Z80ALBL	Z80ASYM
		Z80ASCN	Z80ACST	Z80AMCD	Z80AMCR	Z80ALOT
		Z80AOUT	Z80AROT	Z80ASYT	Z80AXRF	Z80AVHX
		Z80AAHX				
A7805251	2	Z80AP2				
A7805252	4	Z80AP2				
A7805253	10	Z80ALOT				
A7805254	2	Z80ACD				
A7806271	2	Z80ACD				
A7807311	4	Z80AP1				
A7807312	4	Z80ALOT				
A7807313	2	Z80AXRF				
A7807314	1	Z80ACD				
A7905081	1	Z80ASCN				
A8011202	2	Z80AMCD				
A8011203	3	Z80AOUT				
A8107011	1	Z80ACD				
AENHANC1	2	Z80AOPCD				
LINSTALL	196	Z80LINK	Z80LINT	Z80LIO	Z80LEQU	
L7805251	1	Z80LINK				
L7806201	2	Z80LOBJ				
L7806202	2	Z80LOBJ				
L7806203	7	Z80LSYM				
L7807311	1	Z80LNMS				
L8011202	1	Z80LLBL				
LEV-AA	5	HISTORY				
LEV-AB	3	HISTORY				
LEV-AC	3	HISTORY				

IDENTS THAT MODIFY A GIVEN DECK:

DECK	LINES	IDENT(S) THAT MODIFY THE DECK
YANK\$\$\$	1	
HISTORY	5	LEV-AC LEV-AB LEV-AA
LHIST	2	
Z80ADSC	165	
Z80ACMN	26	AINSTALL
Z80LDSC	115	
Z80LCMN	29	
QARG	144	
Z80CASM	239	AINSTALL ACOMMON
Z80AINIT	243	AINSTALL ACOMMON
Z80AID	112	AINSTALL ACOMMON
Z80AP1	524	ACOMMON A7807311
Z80AP2	359	ACOMMON A7805252 A7805251
Z80ACD	473	ACOMMON A7806271 A7805254 A8107011 A7807314
Z80AOPRD	186	ACOMMON
Z80AOPCD	365	ACOMMON AENHANC1
Z80ALBL	114	ACOMMON
Z80ASYM	106	ACOMMON
Z80ASCN	488	ACOMMON A7905081
Z80ACST	136	ACOMMON
Z80AMCD	182	ACOMMON A8011202
Z80AMCR	105	ACOMMON AINSTALL
Z80ALOT	127	ACOMMON A7807312 A7805253 AINSTALL
Z80AOUT	319	ACOMMON A8011203
Z80AROT	103	ACOMMON
Z80ASYT	186	ACOMMON AINSTALL
Z80AXRF	83	ACOMMON A7807313
Z80AVHX	53	ACOMMON

Z80AAHX	63	ACOMMON
Z80ATST	526	
Z80LINK	596	LINSTALL L7805251
Z80LINT	125	LINSTALL
Z80LID	135	LINSTALL
Z80LOBJ	538	L7806202 L7806201
Z80LLBL	80	L8011202
Z80LSYM	106	L7806203
Z80LSCN	75	
Z80LNMS	87	L7807311
Z80LCIN	93	
Z80LOUT	177	
Z80LHIN	54	
Z80LVHX	46	
Z80LAHX	56	
Z80LEQU	113	LINSTALL
Z80LERR	144	
Z80LTST	70	

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK	DECKS CALLING THE COMMON DECK
HISTORY	LHIST
Z80ADSC	Z80CASM
Z80ACMN	Z80CASM Z80AINIT Z80AID Z80API Z80AP2
	Z80ACD Z80ADPRD Z80ADPCD Z80ALBL Z80ASYM
	Z80ASCN Z80ACST Z80AMCD Z80AMCR Z80ALOT
	Z80AOUT Z80AROT Z80ASYT Z80AXRF Z80AVHX
	Z80AAHX

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK	COMMON DECKS CALLED BY THE DECK
LHIST	HISTORY
Z80CASM	Z80ADSC Z80ACMN
Z80AINIT	Z80ACMN
Z80AID	Z80ACMN
Z80API	Z80ACMN
Z80AP2	Z80ACMN
Z80ACD	Z80ACMN
Z80ADPRD	Z80ACMN
Z80ADPCD	Z80ACMN
Z80ALBL	Z80ACMN
Z80ASYM	Z80ACMN
Z80ASCN	Z80ACMN
Z80ACST	Z80ACMN
Z80AMCD	Z80ACMN
Z80AMCR	Z80ACMN
Z80ALOT	Z80ACMN
Z80AOUT	Z80ACMN
Z80AROT	Z80ACMN
Z80ASYT	Z80ACMN
Z80AXRF	Z80ACMN
Z80AVHX	Z80ACMN
Z80AAHX	Z80ACMN

NULL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

ZBOLDSC ZBOLCMN

XREFUP FINISHED.

*CLOSE(10)

*LISTF

*JOB(ID=Z80-PL-SPS.BLD)

*SCHED(CM=9,PL=65000,TL=99999,SCR=100)

#

This job builds a higher PSR Level release Dldpl from one of
a given level and the appropriate PSR code.

#

PSR code is obtained from the Systems Technology Division
(of CDC) PSR Summaries.

#

*OPEN(1,Z80.PL,Z800,AB,Z800,R)

UPDATE(F,P=1,N=11,O=A24,=/)

/IDENT LEV-AC

/INSERT HISTORY.3

LEV-AC

23 AUG 84

Fariss, G. B.

THIS POINT DIVIDES LEVEL AC FROM HIGHER LEVELS.

/FINIS

*SAVEPF(11,Z80.PL,Z800,AC,Z800)

*SAVEPF(62,Z80-PL-SPS.LST,Z80L,01,Z80L)

*E0J

```
*JOB(ID=Z80-PL-LDC.BLD)
*SCHED(CM=9,PL=65000,TL=99999,SCR=100)
#
# This job adds local-site modifications to the standard Oldpl
# and builds the final Oldpl (always edition ZZ).
#
*OPEN(1,Z80.PL,Z800,AC,Z800,R)
*UPDATE(F,P=1,N=11,D=A24,*=/)
/FINIS
*SAVEPF(11,Z80.PL,Z80B,ZZ,Z80B)
*SAVEPF(62,Z80-PL-LDC.LST,Z80L,01,Z80L)
*EOJ
```


*JOB(ID=Z80ASM.BLD)

*SCHED(CM=13,PL=100000,SCR=200,TL=99999)

#

This job builds the MICROTEC Z80 Cross Assembler.

#

*OPEN(1,Z80.PL,Z80B,ZZ,Z80B,R)

UPDATE(=/,P=1,C,Q)

/COMPILE Z80CASM.Z80AAHX

DISABLE FOR PARTIAL COMPILE

/FINIS

*FTN(I=56,X=2,L,R)

*SAVEPF(2,Z80-Z80ASM.REL,LBLD,01,LBLD)

*SAVEPF(62,Z80ASM.LST,Z80L,01,Z80L)

*EOJ

```
*job(id=z80-z80asm.blid)
*sched(cm=10)
#
# THIS JOB RE-BUILDS Z80-Z80ASM.ABS,LBLD FROM Z80-Z80ASM.REL,LBLD.
#
# !!! WARNING !!! FTN-RUNTM.REL AND FTN-SPCL.REL ROUTINES ARE
# OBTAINED FROM THE LIBRARY. IF THESE ROUTINES
# CHANGE DURING A NEW LIBRARY BUILD, RUN THIS JOB
# USING THE NEW LIBRARY AND BUILD YET ANOTHER NEW
# LIBRARY TO INCLUDE THE NEWEST ROUTINES.
#
*open(1,z80-z80asm.rel,lbld,01,lbld,r)
*release(z80-z80asm.abs,lbld,01,lbld,0)
*allocate(z80-z80asm.abs,lbld,01,lbld,480,100)
*open(2,z80-z80asm.abs,lbld,01,lbld)
*map
*load(1)
*abs(2)
*close(2)
*release(z80-z80asm.abs,lbld,01,lbld,r)
*savepf(62,z80-z80asm.lst,lbll,01,lbll)
*eof
```

```
*JOB(ID=Z80LDR.BLD)
*SCHED(CM=11,PL=10000,SCR=200,TL=99999)
#
# This job builds the MICROTEC Z80 Cross Loader.
#
*OPEN(1,Z80.PL,Z80B,ZZ,Z80B,R)
*UPDATE(*=/,P=1,C,Q)
/COMPILE Z80LINK.Z80LERR
/FINIS
*FTN(I=56,X=2,L,R)
*SAVEPF(2,Z80-Z80LDR.REL,LBLD,01,LBLD)
*SAVEPF(62,Z80LDR.LST,Z80L,01,Z80L)
*EOJ
```

```
*job(id=z80-z80ldr.bld)
*sched(cm=10)
#
# THIS JOB RE-BUILDS Z80-Z80LDR.ABS,LBLD FROM Z80-Z80LDR.REL,LBLD.
#
# !!! WARNING!!! FTN-RUNTM.REL AND FTN-SPCL.REL ROUTINES ARE
# OBTAINED FROM THE LIBRARY. IF THESE ROUTINES
# CHANGE DURING A NEW LIBRARY BUILD, RUN THIS JOB
# USING THE NEW LIBRARY AND BUILD YET ANOTHER NEW
# LIBRARY TO INCLUDE THE NEWEST ROUTINES.
#
*open(1,z80-z80ldr.rel,lbld,01,lbld,r)
*release(z80-z80ldr.abs,lbld,01,lbld,0)
*allocate(z80-z80ldr.abs,lbld,01,lbld,480,100)
*open(2,z80-z80ldr.abs,lbld,01,lbld)
*map
*load(1)
*abs(2)
*close(2)
*release(z80-z80ldr.abs,lbld,01,lbld,r)
*savepf(62,z80-z80ldr.lst,lbll,01,lbll)
*eof
```

STOP*ENDST*
*ITEMIZE

PROCESSING: Z80-Z80ASM.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	Z80CASM	64248218		0084	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			Z80CASM			
	EXTERNAL:			ENABLE% INIT	PASS1	Q8QREWND	PASS2
				Q8QINGOT Q8QLGOT1	Q8QENGOT	Q8QARRAY	SYMTA
				LUOPS			
2.	INIT	96419444		0247	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			INIT			
	EXTERNAL:			QARG	Q8QREWND	IESR	UTYP
				IEI%	LABEL		LUOPS
3.	LUOPS	603A8FD2		008D	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LUOPS			
	EXTERNAL:			LOCF	ISHFT%	IESR	ALLOCATE
				OPEN	FCLOSE	IAPAW	RELEASE
							Q8QSTOP
							CLOSE
4.	INOUT	62418EE1		01A9	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			INOUT			
	EXTERNAL:			Q8QINGIN	Q8QARRAY	Q8QLGIN1	Q8QENGIN
				Q8QINGOT	Q8QLGOT1	Q8QENGOT	Q8QSTOP
				ULOC	Q8QBUFIN	Q8QBUFOT	IFUNIT
							IESR
5.	PASS1	7E4E869D		05EF	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			PASS1			
	EXTERNAL:			INOUT	MCREF	LABEL	OPCOD
				MCDEF	CONST	SYMBL	CODEZ
							SCAN
6.	PASS2	7D4E88D6		03B6	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			PASS2			
	EXTERNAL:			INOUT	XREFT	SCAN	LOUT
				CONST	CODEZ		OUT
7.	CODEZ	624096CD		04CD	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			CODEZ			
	EXTERNAL:			OPRND			
8.	OPRND	6C3F88FD		0194	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OPRND			
	EXTERNAL:			SYMBL	SCAN		
9.	OPCOD	6C3F9946		034A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OPCOD			
	EXTERNAL:			SYMBL			
10.	LABEL	674E9D0B		008F	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LABEL			
	EXTERNAL:			SYMBL	XREFT		

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
11.	SYMBL	603691E1		00BC	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			SYMBL			
12.	SCAN	8C4C998E		0503	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			SCAN			
	EXTERNAL:			CONST	LABEL	IEIX	RERZ
13.	CONST	68409079		0113	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			CONST			
14.	MCDEF	6C4C99DA		01C0	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			MCDEF			
	EXTERNAL:			INOUT	OPCOD		
15.	MCREF	6C4C8CE0		00BA	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			MCREF			
	EXTERNAL:			INOUT			
16.	LOUT	9340892C		015F	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			LOUT			
	EXTERNAL:			VHEX	Q8QINGOT	Q8QARRAY	Q8QLGOT1 Q8QENGOT
				AHEX			
17.	OUT	903A88B6		0309	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			OUT			
	EXTERNAL:			ROUT			
18.	ROUT	8D4089BF		00CC	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ROUT			
	EXTERNAL:			VHEX	INOUT		
19.	SYMTA	6836901E		026D	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			SYMTA			
	EXTERNAL:			Q8QINGOT	Q8QLGOT1	Q8QENGOT	AHEX XREFT
				INOUT			
20.	XREFT	533D9A18		0081	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			XREFT			
	EXTERNAL:			INOUT			
21.	VHEX	89479A64		0023	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			VHEX			
22.	AHEX	9E479A48		003C	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			AHEX			

ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
AHEX	AHEX	LOUT	SYMTA			
ALLOCATE	????????	LUOPS				
CLOSE	????????	LUOPS				
CODEZ	CODEZ	PASS1	PASS2			
CONST	CONST	PASS1	PASS2	SCAN		
ENABLE%	????????	Z80CASM				
FCLOSE	????????	LUOPS				
IAPAW	????????	LUOPS				
IEI%	????????	INIT	SCAN			
IESR	????????	INIT	INOUT	LUOPS		
IFUNIT	????????	INOUT				
INIT	INIT	Z80CASM				
INOUT	INOUT	MCDEF SYMTA	MCREF XREF	PASS1	PASS2	ROUT
ISFT%	????????	LUOPS				
LABEL	LABEL	INIT	PASS1	SCAN		
LOCF	????????	LUOPS				
LOUT	LOUT	PASS2				
LUOPS	LUOPS	INIT	Z80CASM			
MCDEF	MCDEF	PASS1				
MCREF	MCREF	PASS1				
OPCOD	OPCOD	MCDEF	PASS1			
OPEN	????????	LUOPS				
OPRND	OPRND	CODEZ				
OUT	OUT	PASS2				
PASS1	PASS1	Z80CASM				
PASS2	PASS2	Z80CASM				

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT			
QBQARRAY	????????	INDUT	LOUT	Z8OCASM	
QBQBUFIN	????????	INDUT			
QBQBUFOT	????????	INDUT			
QBQENGOT	????????	INDUT	LOJT	SYMTA	Z8OCASM
QBQENGIN	????????	INDUT			
QBQINGOT	????????	INDUT	LOUT	SYMTA	Z8OCASM
QBQINGIN	????????	INDUT			
QBQLGOTL	????????	INDUT	LOUT	SYMTA	Z8OCASM
QBQLGINI	????????	INDUT			
QBQREWNO	????????	INIT	Z8OCASM		
QBQSTOP	????????	INDUT	LUOPS		
QARG	????????	INIT			
RELEASE	????????	LUOPS			
REF%	????????	SCAN			
ROUT	ROUT	OUT			
SCAN	SCAN	OPRND	PASS1	PASS2	
SYMBL	SYMBL	LABEL	OPCOD	OPRND	PASS1
SYMTA	SYMTA	Z8OCASM			
ULDC	????????	INDUT			
UTYP	????????	INIT			
VHEX	VHEX	LOUT	ROUT		
XREFT	XREFT	LABEL	PASS2	SYMTA	
Z8OCASM	Z8OCASM				

ITEMIZE COMPLETE.
*ITEMIZE

PROCESSING: Z80-Z80LDR.REL,LBLD

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	Z80LINK	5C297E69		062A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		Z80LINK				
	EXTERNAL:		ENABLE%	INIT	QBQINGOT	QBQENGOT	INOUT
			COMIN	SYMBL	SCAN	LABEL	EQUAT
			OBJ	ERROR	NAMES	AHEX	QBQLGOT1
			QBQREWND	CLREL			
2.	CLREL	70438D50		004A	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		CLREL				
	EXTERNAL:		FCLOSE	IAPAW	LOCF	IESR	RELEASE
			QBQSTOP				
3.	INIT	96419558		0133	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		INIT				
	EXTERNAL:		QARG	QBQREWVD	IESR	UTYP	IEIX
4.	INOUT	62418FC5		00C5	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		INOUT				
	EXTERNAL:		QBQINGIN	QBQARRAY	QBQLGIN1	QBQENGIN	IFUNIT
			QBQINGOT	QBQLGOT1	QBQENGOT		
5.	OBJ	904D8F84		063B	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		OBJ				
	EXTERNAL:		INOUT	HEXIN	SYMBL	OUT	LABEL
			ERROR	NAMES			
6.	LABEL	674E9D35		0065	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		LABEL				
	EXTERNAL:		SYMBL				
7.	SYMBL	603691B2		00EB	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		SYMBL				
8.	SCAN	8C4C9E11		0080	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		SCAN				
9.	NAMES	5E4E920E		008C	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		NAMES				
	EXTERNAL:		AHEX				
10.	COMIN	6E4091D9		008D	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		COMIN				
11.	OUT	903A8A51		016E	REL	MM/DD/YY	HH:MM:SS
	ENTRY:		OUT				
	EXTERNAL:		VHEX	INOUT	NAMES		

ITEMIZE						09/18/84	15:54:30
ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
12.	HEXIN	694A8764 ENTRY:		0032	REL	MM/DD/YY HH:MM:SS	
				HEXIN			
13.	VHEX	89479A64 ENTRY:		0023	REL	MM/DD/YY HH:MM:SS	
				VHEX			
14.	AHEX	9E479A4A ENTRY:		003D	REL	MM/DD/YY HH:MM:SS	
				AHEX			
15.	EQUAT	663E8A98 ENTRY:		0006	REL	MM/DD/YY HH:MM:SS	
				EQUAT			
16.	ERRDR	683D8BE3 ENTRY: EXTERNAL:		01AD	REL	MM/DD/YY HH:MM:SS	
				ERRDR			
				Q8QINGOT Q8QLGOT1 Q8QENGOT	AHEX		

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT		
AHEX	AHEX	ERROR	NAMES	Z8OLINK
CLREL	CLREL	Z8OLINK		
COMIN	COMIN	Z8OLINK		
ENABLE%	????????	Z8OLINK		
EQUAT	EQUAT	Z8OLINK		
ERROR	ERROR	OBJ	Z8OLINK	
FCLOSE	????????	CLREL		
HEXIN	HEXIN	OBJ		
IAPAW	????????	CLREL		
IEIX	????????	INIT		
IESR	????????	CLREL	INIT	
IFUNIT	????????	INDUT		
INIT	INIT	Z8OLINK		
INDUT	INDUT	OBJ	OUT	Z8OLINK
LABEL	LABEL	OBJ	Z8OLINK	
LOCF	????????	CLREL		
NAMES	NAMES	OBJ	OUT	Z8OLINK
OBJ	OBJ	Z8OLINK		
OUT	OUT	OBJ		
Q8QARRAY	????????	INDUT		
Q8QENGOT	????????	ERROR	INDUT	Z8OLINK
Q8QENGIN	????????	INDUT		
Q8QINGOT	????????	ERROR	INDUT	Z8OLINK
Q8QINGIN	????????	INDUT		
Q8QLGOT1	????????	ERROR	INDUT	Z8OLINK
Q8QLGIN1	????????	INDUT		

ITEMIZE

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ENTRYPOINT

MODULE

MODULES REFERENCING THE ENTRYPOINT

QBREWND	????????	INIT	Z8OLINK
QWSTDP	????????	CLREL	
QARG	????????	INIT	
RELEASE	????????	CLREL	
SCAN	SCAN	Z8OLINK	
SYMBL	SYMBL	LABEL	OBJ Z8OLINK
UTYP	????????	INIT	
VHEX	VHEX	OUT	
Z8OLINK	Z8OLINK		

ITEMIZE COMPLETE.

*SAVEPF(52,BLD-PLAN,LST,Z80L,01,)

*EOJ BLD-PLAN

M P - 3 2 P R O D U C T S E T

S T D

STD is for Systems Technology Division of CDC. These are tools developed by STD and which have not been released to Customers. If they were to be released, they would be moved to the MST owner.

STD0/STDB owner last dumped on -----

File Name	Description	Last Build
std.pl, std0, __, std0	PSRed PL	-----
std-pl-sps.bld, std0, 01, std0	Build next PSR Level PL	
std-pl-sps.lst, std1, 01, std1	Listing of above .bld job	
std.pl, std0, __, std0	Next PSR Level PL	*1
std-pl-loc.bld, std0, 01, std0	Build PL with Local Mods	
std-pl-loc.lst, std1, 01, std1	Listing of above .bld job	
std.pl, stdb, ZZ, stdb	Local (working) PL	-----
stlib.bld, stdb, 01, stdb	Build ST Library	
stlib.lst, std1, 01, std1	Listing of above .bld job	
std-st-def.inc, bcde, 01, bcde	ST Definitions	-----
std-stlib.rel, bcde, 01, bcde		-----
stprm.bld, stdb, 01, stdb	Build ST Primitives	
stprm.lst, std1, 01, std1	Listing of above .bld job	
std-stprm.rel, bcde, 01, bcde		-----
fmt.bld, stdb, 01, stdb	Build text formatter	
fmt.lst, std1, 01, std1	Listing of above .bld job	
std-fmt.rel, lcde, 01, lcde		-----
std-fmt.bld, lcde, 01, lcde	Build FMT abs	
std-fmt.lst, lcd1, 01, lcd1	Listing of above .bld job	
std-fmt.abs, lcde, 01, lcde		-----
mail.bld, stdb, 01, stdb	Build MAIL	
mail.lst, std1, 01, std1	Listing of above .bld job	
std-mail.rel, bcde, 01, bcde		-----
std-mail.bld, bcde, 01, bcde	Build MAIL abs	
std-mail.lst, lcd1, 01, lcd1	Listing of above .bld job	
std-mail.abs, bcde, 01, bcde		-----
xrefup.bld, stdb, 01, stdb	Build XREFUP	
xrefup.lst, std1, 01, std1	Listing of above .bld job	
std-xrefup.rel, lcde, 01, lcde		-----
std-xrefup.bld, lcde, 01, lcde	Build XREFUP abs	
std-xrefup.lst, lcd1, 01, lcd1	Listing of above .bld job	
std-xrefup.abs, lcde, 01, lcde		-----
itemize.bld, stdb, 01, stdb	Build ITEMIZE	
itemize.lst, std1, 01, std1	Listing of above .bld job	
std-itemiz.rel, lcde, 01, lcde		-----
std-itemiz.bld, lcde, 01, lcde	Build ITEMIZE abs	
std-itemiz.lst, lcd1, 01, lcd1	Listing of above .bld job	
std-itemiz.abs, lcde, 01, lcde		-----
listf.bld, stdb, 01, stdb	Build LISTF	
listf.lst, std1, 01, std1	Listing of above .bld job	
std-listf.rel, lcde, 01, lcde		-----
std-listf.bld, lcde, 01, lcde	Build LISTF abs	
std-listf.lst, lcd1, 01, lcd1	Listing of above .bld job	
std-listf.abs, lcde, 01, lcde		-----

zap.bld,stdb,01,stdb	Build ZAP	
zap.lst,stdl,01,stdl	Listing of above .bld job	
std-zap.rel,lcdc,01,lcdc		-----
std-zap.bld,lcdc,01,lcdc	Build ZAP abs	
std-zap.lst,lcdl,01,lcdl	Listing of above .bld job	
std-zap.abs,lcdc,01,lcdc		-----
dayerr.bld,stdb,01,stdb	Build DAYERR	
dayerr.lst,stdl,01,stdl	Listing of above .bld job	
std-dayerr.rel,bcdc,01,bcdc		-----
fmaint.bld,stdb,01,stdb	Build FMAINT	
fmaint.lst,stdl,01,stdl	Listing of above .bld job	
std-fmaint.rel,bcdc,01,bcdc		-----
tcyb.bld,stdb,01,stdb	Build TCYB	
tcyb.lst,stdl,01,stdl	Listing of above .bld job	
std-tcyb.rel,bcdc,01,bcdc		-----
std-doc.bld,stdb,01,stdb	Build STD Documentation	
std-doc.lst,stdl,01,stdl	Listing of above .bld job	
std.doc,stdb,01,stdb		-----

bld-plan.txt,stdb,01,stdb	Contains this text
bld-plan.run,stdb,01,stdb	Produce Product Build Doc

Integration Instructions for next release:

1. None. Complete.

NOTES:

This is a temporary Oldpl. It is build by std-pl-sps.bld and then, when all is well, the first Oldpl is released and the second Oldpl becomes the base Oldpl. The std-pl-sps.bld job is then modified to use the new PSR Level as a base and produce the next PSR Level.

Normally, the temporary Oldpl does not appear on Release Tapes.

STOP*ENDST*
*OPEN(10,STD.PL,STD8,ZZ, ,R)
*XREFUP(P=10)

OLDPL VERSION: 2
 MASTER CHARACTER: /
 OLDPL PRODUCED: 09/04/84
 13:58:00

OLDPL AUDIT: TOTAL YANKED ACTIVE RUNNING

DECK	YANK\$\$\$	1	0	1	1
COMDECK	HISTORY	30	0	30	31
COMDECK	F-TITLE	150	0	150	181
COMDECK	OSSYM	21	0	21	202
COMDECK	ID	21	0	21	223
COMDECK	ARGS	8	0	8	231
COMDECK	CSCLUN	8	0	8	239
COMDECK	CSPAWN	13	0	13	252
COMDECK	CFMTBF	6	0	6	258
COMDECK	CRAWTT	8	0	8	266
COMDECK	SPSYM	14	0	14	280
COMDECK	CLOOK	8	0	8	288
DECK	STCOMDEF	154	0	154	442
DECK	STLIB	473	0	473	915
COMDECK	F-STLIB	181	0	181	1096
COMDECK	STPRIMC	25	0	25	1121
DECK	STPRIM	1045	0	1045	2166
COMDECK	F-STPRM	196	0	196	2362
COMDECK	CINBUF	5	0	5	2367
COMDECK	CDUT	9	0	9	2376
COMDECK	CPAGE	19	0	19	2395
COMDECK	CPARAM	11	0	11	2406
COMDECK	CLUNS	10	0	10	2416
COMDECK	CCMDS	5	0	5	2421
DECK	FMT	784	0	784	3205
DECK	FMTUTES	429	0	429	3634
COMDECK	F-FMT	146	0	146	3780
COMDECK	MAILSYM	16	0	16	3796
COMDECK	CMAIL	19	0	19	3815
COMDECK	CMAILB	8	0	8	3823
DECK	MAIL	970	0	970	4793
COMDECK	F-MAIL	212	0	212	5005
COMDECK	CXREFUP	17	0	17	5022
DECK	XREFUP	788	0	788	5810
COMDECK	F-XREFUP	84	0	84	5894
COMDECK	CITEMIZ	14	0	14	5908
COMDECK	CITEMTH	8	0	8	5916
DECK	ITEMIZE	904	0	904	6820
COMDECK	F-ITEMIZ	114	0	114	6934
DECK	LISTF	213	0	213	7147
COMDECK	F-LISTF	100	0	100	7247
DECK	ZAP	134	0	134	7381
COMDECK	F-ZAP	82	0	82	7463
DECK	DAYERR	26	0	26	7489
COMDECK	F-DAYERR	48	0	48	7537
DECK	FMAINT	94	0	94	7631
COMDECK	F-FMAINT	51	0	51	7682
DECK	TCYB	509	0	509	8191
DECK	FROM32	773	0	773	8964
COMDECK	F-TCYB	79	0	79	9043
DECK	STD-DOC	13	0	13	9056

DECKS MODIFIED BY A GIVEN IDENT:

IDENT LINES DECKS OR COMDECKS MODIFIED

LEV-AC 3 HISTORY

EVENTS THAT MODIFY A GIVEN DECK:

DECK LINES IDENT(S) THAT MODIFY THE DECK

YANK\$\$\$	1	
HISTORY	27	LEV-AC
F-TITLE	150	
OSSYM	21	
IO	21	
ARGS	8	
CSCLUN	8	
CSPAWN	13	
CFMTBF	6	
CRAWTT	8	
SPSYM	14	
CLOOK	8	
STCOMDEF	154	
STLIB	473	
F-STLIB	181	
STPRIMC	25	
STPRIM	1045	
F-STPRM	196	
CINBUF	5	
CDUT	9	
CPAGE	19	
CPARAM	11	
CLUNS	10	
CCMDS	5	
FMT	784	
FMTUTES	429	
F-FMT	146	
MAILSYM	16	
CMAIL	19	
CMAILB	8	
MAIL	970	
F-MAIL	212	
CXREFUP	17	
XREFUP	788	
F-XREFUP	84	
CITEMIZ	14	
CITEMTH	8	
ITEMIZE	904	
F-ITEMIZ	114	
LISTF	213	
F-LISTF	100	
ZAP	134	
F-ZAP	82	
DAYERR	26	
F-DAYERR	48	
FMAINT	94	
F-FMAINT	51	
TCYB	509	
FROM32	773	
F-TCYB	79	
STD-DOC	13	

DECKS THAT CALL A GIVEN COMMON DECK:

COMDECK DECKS CALLING THE COMMON DECK

F-TITLE	STD-DOC
F-STLIB	STD-DOC
STPRMC	STPRIM
F-STPRM	STD-DOC
CINBUF	FMT
COUT	FMT
CPAGE	FMT
CPARAM	FMT
CLUNS	FMT
CCMDS	FMT
F-FMT	STD-DOC
MAILSYM	MAIL
CMAIL	MAIL
CMAILB	MAIL
F-MAIL	STD-DOC
CXREFUP	XREFUP
F-XREFUP	STD-DOC
CITEMIZ	ITEMIZE
CITEMTH	ITEMIZE
F-ITEMIZ	STD-DOC
F-LISTF	STD-DOC
F-ZAP	STD-DOC
F-DAYERR	STD-DOC
F-FMAINT	STD-DOC
F-TCYB	STD-DOC

COMMON DECKS CALLED BY A GIVEN DECK OR COMDECK:

DECK COMMON DECKS CALLED BY THE DECK

STPRIM	STPRMC				
FMT	CLUNS	CPARAM	CPAGE	COUT	CINBUF
	CCMDS				
MAIL	MAILSYM	CMAIL	CMAILB		
XREFUP	CXREFUP				
ITEMIZE	CITEMIZ	CITEMTH			
STD-DOC	F-TITLE	F-STLIB	F-STPRM	F-MAIL	F-FMT
	F-XREFUP	F-ITEMIZ	F-LISTF	F-ZAP	F-DAYERR
	F-FMAINT	F-TCYB			

NULL IDENTS:

NULL DECKS:

COMMON DECKS NOT CALLED:

HISTORY	BSSYM	IO	ARGS	CSCLUN	CSPAWN
CFMTBF	CRAWTT	SPSYM	CLOCK		

XREFUP FINISHED.

*CLOSE(10)

*LISTF

```
*job(id=std-pl-sps.bld)
*sched(cm=10,tl=9999,pl=60000,scr=100)
#
# This job builds a higher PSR level release Oldpl from one of
# a given level and the appropriate PSR code.
#
# PSR code is obtained from the Systems Technology Division
# (of CDC) PSR summaries.
#
#-----
# This portion of the job is temporary. It resequences the Level AB
# OLDPL and prepares for AC generation.
#
*OPEN(5,STD.PL,STD0,AB,STD0,R)
*UPDATE(F,P=5,N=6,*=/,O=A,S=7)
/FINIS
*CLOSE(6)
*REWIND(7)
*UPDATE(F,I=7,N=10,*=/,O=A)
*CLOSE(7)
*REWIND(10)
#-----
*release(std.pl,std0,AC,std0,r)
#-----*open(10,std.pl,std0,AA,std0,r)
*update(p=10,n=2,*=/)
// PLACE PSR CODE AFTER THIS LINE.
/IDENT LEV-AC
/INSERT HISTORY.3
LEV-AC 04 SEP 84 Fariss, G. B.
THIS POINT DIVIDES LEVEL AC FROM HIGHER LEVELS.

/FINIS
*savepf(2,std.pl,std0,AC,std0)
*savepf(62,std-pl-sps.lst,stdl,01,stdl)
*eof
```

```
*JOB(ID=STD-PL-LOC.BLD)
*SCHED(CM=9,TL=9999,PL=10000,SCR=40)
#
# This job adds local-site modifications to the standard Oldpl
# and builds the final Oldpl (always Edition ZZ).
#
*RELEASE(STD.PL,STDB,ZZ,STDB)
*OPEN(10,STD.PL,STDO,AC,STDO,R) # Change the edition as appropriate
*UPDATE(P=10,N=20,O=A,*=/)
// PLACE LOCAL-MOD CODE AFTER THIS LINE.
/FINIS
*SAVEPF(20,STD.PL,STDB,ZZ,STDB)
*SAVEPF(62,STD-PL-LOC.LST,STDL,01,STDL)
*EOJ
```



```
*job(id=stlib.bld)
*sched(cm=12,tl=9999,pl=100000,scr=60)
#
# Build the Software Tools Definitions and Library routines.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE STCOMDEF
/FINIS
*savepf(11,std-st-def.inc,bcdc,01,bcdc)
*close(11)
*update(p=10,c=12,*=/,q)
/COMPILE STLIB
/FINIS
*open(41,std-st-def.inc,bcdc,01,bcdc,r)
*ratfor(i=12,f=13)
*rewind(13)
*ftn(i=13,x=14,l,r)
*savepf(14,std-stlib.rel,bcdc,01,bcdc)
*map
*load(14)
*savepf(62,stlib.lst,stdl,01,stdl)
*eoj
```

```
#job(id=stprm.blid)
#sched(cm=10,tl=9999,pl=100000,scr=60)
#
# Build the Software Tools Primitive routines.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE STPRIM
/FINIS
*open(41,std-st-def.inc,bcdc,01,bcdc,r)
*ratfor(i=11,f=13)
*rewind(13)
*ftn(i=13,x=14,l,r)
*savepf(14,std-stprm.rel,bcdc,01,bcdc)
*map
*load(14)
*savepf(62,stprm.lst,stdl,01,stdl)
#eoj
```

```
*JOB(ID=FMT.BLD)
*SCHED(CM=10,TL=999,PL=100000,SCR=40)
#
# Build the FMT text formatter.
#
*OPEN(10,STD,PL,STDB,ZZ,STDB,R)
*UPDATE(P=10,Q,C=11,O=A24,*=/)
/COMPILE,FMT
/FINIS
*REWIND(11)
*RATFOR(I=11,F=12)
*REWIND(12)
*REWIND(10)
*UPDATE(P=10,Q,C=13,O=A24,*=/)
/COMPILE,FMTUTES
/FINIS
*REWIND(13)
*CMP(I=13,L,R,X=14)
*FTN(I=12,X=14,L,R)
*SAVEPF(14,STD-FMT.REL,LCDC,01,LCDC)
*SAVEPF(62,FMT.LST,STD,01,STD)
*EOJ
```

```
*job(id=std-fmt.blid)
*sched(cm=10)
*open(1,std-fmt.rel,lcde,01,lcde,r)
*release(std-fmt.abs,lcde,01,lcde,0)
*allocate(std-fmt.abs,lcde,01,lcde,480,100)
*open(2,std-fmt.abs,lcde,01,lcde)
*map
*load(1)
*abs(2)
*close(2)
*release(std-fmt.abs,lcde,01,lcde,r)
*savepf(62,std-fmt.lst,lcde,01,lcde)
*eof
```

```
*job(id=mail.bld)
*sched(cm=13,tl=999,pl=100000,scr=500)
#
# build the inter-user message program; MAIL.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE MAIL
/FINIS
*OPEN(41,std-st-def.inc,bcdc,01,bcdc,r)
*ratfor(i=11,f=12)
*rewind(12)
*ftn(i=12,x=13,l,r)
*savepf(13,std-mail.rel,bcdc,01,bcdc)
*savepf(62,mail.lst,stdl,01,stdl)
*eof
```

```
*JOB(ID=STD-MAIL.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
*OPEN(1,STD-MAIL.REL,BCDC,01,BCDC,R)
*OPEN(2,STD-STLIB.REL,BCDC,01,BCDC,R)
*OPEN(3,STD-STPRM.REL,BCDC,01,BCDC,R)
*RELEASE(STD-MAIL.ABS,BCDC,01,BCDC,0)
*ALLOCATE(STD-MAIL.ABS,BCDC,01,BCDC,480,100)
*OPEN(4,STD-MAIL.ABS,BCDC,01,BCDC)
*MAP
*LOAD(1,2,3)
*ABS(4)
*CLOSE(4)
*RELEASE(STD-MAIL.ABS,BCDC,01,BCDC,2)
*SAVEPF(62,STD-MAIL.LST,BCDL,01,BCDL)
*EOJ
```

```
*job(id=xrefup.bld)
*sched(cm=10,tl=9999,pl=60000)
#
# Build the XREFUP tool.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE XREFUP
/FINIS
*open(41,std-st-def.inc,bcdc,01,bcdc,r)
*ratfor(i=11,f=12)
*rewind(12)
*ftn(i=12,x=13,i,r)
*rewind(13)
*savepf(13,std-xrefup.rel,lcdc,01,lcdc,r)
*savepf(62,xrefup.lst,stdl,01,stdl)
*eo j
```

```
*JOB(ID=STD-XREFUP.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
*OPEN(1,STD-XREFUP.REL,LCDC,01,LCDC,R)
*RELEASE(STD-XREFUP.ABS,LCDC,01,LCDC,0)
*ALLOCATE(STD-XREFUP.ABS,LCDC,01,LCDC,480,100)
*OPEN(4,STD-XREFUP.ABS,LCDC,01,LCDC)
*MAP
*LOAD(1)
*ABS(4)
*CLOSE(4)
*RELEASE(STD-XREFUP.ABS,LCDC,01,LCDC,R)
*SAVEPF(62,STD-XREFUP.LST,LCDC,01,LCDC)
*EOJ
```



```
*job(id=itemize.bld)
*sched(cm=10,tl=9999,pl=60000,scr=10)
#
# Build the ITEMIZE tool.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE ITEMIZE
/FINIS
*open(41,std-st-def.inc,bcdc,01,bcdc,r)
*ratfor(i=11,f=12)
*rewind(12)
*ftn(i=12,x=13,i,r)
*savepf(13,std-itemiz.rel,lcdc,01,lcdc)
*savepf(62,itemize.lst,stdl,01,stdl)
*eof
```

```
*JOB(ID=STD-ITEMIZ.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
*OPEN(1,STD-ITEMIZ.REL,LCDC,01,LCDC,R)
*OPEN(2,STD-STLIB.REL,BCDC,01,BCDC,R)
*OPEN(3,STD-STPRM.REL,BCDC,01,BCDC,R)
*RELEASE(STD-ITEMIZ.ABS,LCDC,01,LCDC,0)
*ALLOCATE(STD-ITEMIZ.ABS,LCDC,01,LCDC,480,100)
*OPEN(4,STD-ITEMIZ.ABS,LCDC,01,LCDC)
*MAP
*LOAD(1,2,3)
*ABS(4)
*CLOSE(4)
*RELEASE(STD-ITEMIZ.ABS,LCDC,01,LCDC,R)
*SAVEPF(62,STD-ITEMIZ.LST,LCDC,01,LCDC)
*EQJ
```

```
*job(id=listf.bid)
*sched(cm=10,pl=100000,tl=999,scr=100)
#
# Build the LISTF tool.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE LISTF
/FINIS
*open(41,std-st-def.inc,bcdc,01,bcdc,r)
*ratfor(i=11,f=12)
*rewind(12)
*ftn(i=12,x=13,l,r)
*savepf(13,std-listf.rel,lcde,01,lcde)
*savepf(62,listf.lst,stdl,01,stdl)
*eof
```

```
*JOB(ID=STD-LISTF.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
*OPEN(1,STD-LISTF.REL,LCDC,01,LCDC,R)
*OPEN(2,STD-STLIB.REL,BCDC,01,BCDC,R)
*OPEN(3,STD-STPRM.REL,BCDC,01,BCDC,R)
*RELEASE(STD-LISTF.ABS,LCDC,01,LCDC,0)
*ALLOCATE(STD-LISTF.ABS,LCDC,01,LCDC,480,100)
*OPEN(4,STD-LISTF.ABS,LCDC,01,LCDC)
*MAP
*LOAD(1,2,3)
*ABS(4)
*CLOSE(4)
*RELEASE(STD-LISTF.ABS,LCDC,01,LCDC,R)
*SAVEPF(62,STD-LISTF.LST,LCDL,01,LCDL)
*EOJ
```

```
*job(id=zap.bl'd)
*sched(cm=10,p1=100000,t1=999,scr=100)
#
# Build the ZAP tool.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE ZAP
/FINIS
*open(41,std-st-def.inc,bcdc,01,bcdc,r)
*ratfor(i=11,f=12)
*rewind(12)
*ftn(i=12,x=13,l,r)
*savepf(13,std-zap.rel,lcdc,01,lcdc)
*savepf(62,zap.lst,stdl,01,stdl)
*eof
```

```
*JOB(ID=STD-ZAP.BLD)
*SCHED(CM=10,TL=9999,PL=60000,SCR=100)
*OPEN(1,STD-ZAP.REL,LCDC,01,LCDC,R)
*OPEN(2,STD-STLIB.REL,BCDC,01,BCDC,R)
*OPEN(3,STD-STPRM.REL,BCDC,01,BCDC,R)
*RELEASE(STD-ZAP.ABS,LCDC,01,LCDC,0)
*ALLOCATE(STD-ZAP.ABS,LCDC,01,LCDC,480,100)
*OPEN(4,STD-ZAP.ABS,LCDC,01,LCDC)
*MAP
*LOAD(1,2,3)
*ABS(4)
*CLOSE(4)
*RELEASE(STD-ZAP.ABS,LCDC,01,LCDC,R)
*SAVEPF(62,STD-ZAP.LST,LCDL,01,LCDL)
*EQJ
```

```
*job(id=dayerr.bld)
*sched(cm=10,t1=999,PL=10000)
#
# Build the DAYERR tool.
#
*open(10,std.pl,stdb,ZZ,stdb,r)
*update(q,p=10,c=11,*=/)
/COMPILE DAYERR
/FINIS
*OPEN(41,STD-ST-DEF.INC,BCDC,01,BCDC,R)
*ratfor(i=11,f=12)
*rewind(12)
*ftn(i=12,x=13,l,r)
*savepf(13,std-dayerr.rel,bcdc,01,bcdc)
*savepf(62,dayerr.lst,stdl,01,stdl)
*eof
```

```
#JOB(ID=FMAINT.BLD)
#SCHED(CM=10,TL=999999,PL=1000,SCR=100)
#
# Build the FMAINT tool.
#
#open(10,std.pl,stdb,ZZ,stdb,r)
#update(q,p=10,c=11,*=/)
/COMPILE FMAINT
/FINIS
#FTN(I=11,X=12,L,R)
#SAVEPF(12,STD-FMAINT.REL,BCDC,01,BCDC)
#SAVEPF(62,FMAINT.LST,STDL,01,STDL)
#EQJ
```



```
*JOB(ID=TCYB.BLD)
*SCHED(CM=10,PL=13000,TL=99999,SCR=100)
#
# WILD TRANSFER-TO-CYBER PROGRAM "TCYB".
#
*OPEN(10,STD,PL,STDB,ZZ,STDB,R)
*UPDATE(Q,P=10,C=11,*=/)
/COMPILE TCYB
/FINIS
*REWIND(11)
*CMP(I=11,X=12,L,R=2,C)
*SAVEPF(12,STD-TCYB.REL,BCDC,01,BCDC)
#
# LIST THE CYBER PROGRAM THAT RECEIVES THE TRANSFER.
#
*UPDATE(Q,P=10,C=13,*=/)
/COMPILE FROM32
/FINIS
*REWIND(13)
*COPYSCF(13)
*SAVEPF(62,tcyb.lst,stdl,01,stdl)
*EOJ
```

```
*job(id=std-doc.bld)
*sched(cm=10,tl=9999,pl=60000,scr=100)
#
# This job generates the documentation for the STD tools.
#
*open(1,std.pl,stdb,ZZ,stdb,r)
*update(q,p=1,*=/,c=2)
/COMPILE STD-DOC
/FINIS
*copyscf(2)          # List the FMT input.
*rewind(2)
#
# Now strip the update sequence numbers.  If update
# had included the "D" switch, this would not be necessary.
#
*copycf(2,3,1,1,80)
*close(2)
*rewind(3)
#
# Now format the file.
#
# Use fmt with "c" parameter if changes are made that would
# result in changes to the table of contents.  Take the
# T.C. produced at the end of the document and use it to
# correct the formatted table of contents in Comdeck F-TITLE.
#
#-- *fmt(i=3,l=4,c)
*fmt(i=3,l=4)
*savepf(4,std.doc,stdb,01,stdb)
*savepf(62,std-doc.lst,stdl,01,stdl)
*eof
```

STOP*ENDST*
*ITEMIZE

PROCESSING: STD-STLIB.REL,BCDC,01,BCDC

ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
1.	ADDSET	7917982B ENTRY:		0061	REL	MM/DD/YY	HH:MM:SS
				ADDSET			
2.	CANT	9C4E916B ENTRY:		001F	REL	MM/DD/YY	HH:MM:SS
		EXTERNAL:		CANT PUTLIN			ENDST
3.	CLOWER	7711902C ENTRY:		005C	REL	MM/DD/YY	HH:MM:SS
				CLOWER			
4.	CONCAT	7B0C916E ENTRY:		002E	REL	MM/DD/YY	HH:MM:SS
		EXTERNAL:		CONCAT STCOPY			SCOPY
5.	CTOIF	763B900D ENTRY:		0088	REL	MM/DD/YY	HH:MM:SS
		EXTERNAL:		CTOIF INDEX			
6.	CUPPER	77088F33 ENTRY:		005C	REL	MM/DD/YY	HH:MM:SS
				CUPPER			
7.	EQUAL	6E3E8A37 ENTRY:		0067	REL	MM/DD/YY	HH:MM:SS
				EQUAL			
8.	ERRDR	683D8D7F ENTRY:		0011	REL	MM/DD/YY	HH:MM:SS
		EXTERNAL:		ERROR REMARK			ENDST
9.	FCOPY	604C9075 ENTRY:		001A	REL	MM/DD/YY	HH:MM:SS
		EXTERNAL:		FCOPY GETCH			PUTCH
10.	FOLD	99409372 ENTRY:		0029	REL	MM/DD/YY	HH:MM:SS
		EXTERNAL:		FOLD CLOWER			
11.	GETC	984A8B50 ENTRY:		004C	REL	MM/DD/YY	HH:MM:SS
		EXTERNAL:		GETC GETCH			
12.	GTOKEN	730D8F7A ENTRY:		011A	REL	MM/DD/YY	HH:MM:SS
				GTOKEN			
13.	GETWRD	66268AE7 ENTRY:		00A1	REL	MM/DD/YY	HH:MM:SS
				GETWRD			
14.	INDEX	5E419B38 ENTRY:		0062	REL	MM/DD/YY	HH:MM:SS
				INDEX			

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
15.	ITDC	96388FEA		00B0	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		ITDC			
		EXTERNAL:		IABSZ	MOD%		
16.	ITDH	9638901F		0076	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		ITDH			
		EXTERNAL:		ISHFT%			
17.	LENGTH	5F229146		0052	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		LENGTH			
18.	PUTC	8F3A8B88		0014	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		PUTC			
		EXTERNAL:		PUTCH			
19.	PUTDEC	6A178B39		005A	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		PUTDEC			
		EXTERNAL:		ITDC	PUTC		
20.	SCOPY	534C9055		003A	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		SCOPY			
21.	SKIPBL	6A18966A		0025	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		SKIPBL			
22.	STCOPY	5C029C56		003A	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		STCOPY			
23.	TYPE	8B368F30		006A	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		TYPE			
24.	UPPER	583F8F71		0029	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		UPPER			
		EXTERNAL:		CUPPER			

PROCESSING: STD-STPRM.REL,BCDC,01,BCDC

25.	AMOVE	79429044		0045	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		AMOVE			
		EXTERNAL:		R4MFN	LOCF	IESR	MODIFY R4ERR
26.	ASSIGN	770E8BE7		00AF	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		ASSIGN			
		EXTERNAL:		R4ERR			
27.	CLOSEF	771D9025		0067	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		CLOSEF			
		EXTERNAL:		IBDB	PICKC	PUTCHI	PACKC IESR
				CLOSE	IAPAW	LOCF	RELEASE
28.	CREATE	68189A24		007A	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		CREATE			

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	R4MFN	LOCF	IESR	ALLOCATE	OPENF
			R4ERR				
29.	ENDST	66419B3A	0052	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	ENDST				
		EXTERNAL:	PUTCHI	IBDB	PACKC	CLOSEF	QBQSTOP
30.	FLUSH	71438A71	001A	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	FLUSH				
		EXTERNAL:	PUTCH				
31.	GDATE	73489E16	0072	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	GDATE				
		EXTERNAL:	IESR	DATE	IAPAC		
32.	GETARG	66238AFC	009C	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	GETARG				
		EXTERNAL:	IAPAW	GOKEN			
33.	GETCH	704A8A1E	017D	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	GETCH	GETLIN			
		EXTERNAL:	R4ERR	PUTCHI	IBDB	PACKC	LOCF
			PICKD	PICK	IAPAW		
34.	GTIME	733B9669	0029	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	GTIME				
		EXTERNAL:	IESR	TIME	IAPAC		
35.	INITST	630D9653	0038	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	INITST				
		EXTERNAL:	GETARG				
36.	INMAP	66419258	0046	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	INMAP				
37.	INSUB	74418C22	0068	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	INSUB				
		EXTERNAL:	SCOPY				
38.	ISATTY	62039E40	004B	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	ISATTY				
		EXTERNAL:	IESR	UTYP			
39.	MARKL	664E8D7A	001A	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	MARKL				
40.	OPENF	6A3F999E	00F3	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	OPENF				
		EXTERNAL:	IESR	UTYP	R4ERR	R4MFN	LOCF
			OPEN	ULOC	IAPAW		
41.	OUTMAP	6F0A8B4C	0046	REL		MM/DD/YY	HH:MM:SS
		ENTRY:	OUTMAP				

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME	
					PUTCI	PUTLIN	SPACER	ZARG
		EXTERNAL:			PICKD	PACKD	PICKC	PACKC
					PARM	PACK	ABORT	PARM
								PICK RETURN
54.	FMT	99428B83		003C	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		FMT				
		EXTERNAL:		ENABLE%	INIT	GETIN	COMAND	TEXT
				TBLCONT	SPACE	CLRLUN		
55.	ADDLINE	751075EE		00A5	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		ADDLINE				
		EXTERNAL:		WIDTH	ADDSPACE	BRK		
56.	ADDSPACE	6E2A77AC		00BB	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		ADDSPACE				
		EXTERNAL:		ADDSCNTS				
57.	ADDSCNTS	7B1D66D6		0083	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		ADDSCNTS				
		EXTERNAL:		SPACER				
58.	BRK	9D3D948E		0031	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		BRK				
		EXTERNAL:		PUT				
59.	COMAND	6E1C90FA		01A4	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		COMAND				
		EXTERNAL:		GETVAL	BRK	GETTL	SET	SPACE
				DEFLUN	PUTTC	CLRLUN		
60.	CTOIT	683B901F		0077	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		CTOIT				
61.	GETTL	6C4A8B0A		0081	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		GETTL				
62.	GETVAL	771E8B39		0050	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		GETVAL				
		EXTERNAL:		CTOIT				
63.	INIT	9641961A		0071	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		INIT				
		EXTERNAL:		ZARG	IESR	DATE	IAPAW	DEFLUN
64.	ITOC	963B8FF2		00AA	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		ITOC				
		EXTERNAL:		IABS%	MOD%			
65.	LEADBL	711E9E66		0035	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		LEADBL				
66.	PF00T	5B499071		001F	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:		PF00T				

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	SKIP	PUTCI	PUTTL		
7.	PHEAD	6B479A82	001C	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	PHEAD				
		EXTERNAL:	PUTCI	PUTTL	SKIP		
68.	PUT	8F3A8B76	0049	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	PUT				
		EXTERNAL:	PHEAD	PUTCI	PUTLIN	SKIP	PFOOT
69.	PUTTC	6C3A8B09	0081	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	PUTTC				
		EXTERNAL:	ITOC	PUTCH	PUT		
70.	PUTTL	633A8B18	006F	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	PUTTL				
		EXTERNAL:	ITOC	WIDTH	PUTCI	PUTC	
71.	SET	8C4A8B74	004B	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	SET				
72.	SKIP	8C449670	001F	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	SKIP				
		EXTERNAL:	PUTCI				
73.	SPACE	673F9E64	0038	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	SPACE				
		EXTERNAL:	BRK	PHEAD	SKIP	PFOOT	
74.	TBLCONT	5C1F5F20	007C	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	TBLCONT				
		EXTERNAL:	SPACE	CLRLUN	DEFLUN	GETIN	BRK
75.	TEXT	884A873D	004E	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	TEXT				
		EXTERNAL:	BRK	LEADBL	UNDERL	WIDTH	PUT
			ADDLINE				
76.	UNDERL	58159B50	004A	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	UNDERL				
77.	WIDTH	60469B1F	006C	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	WIDTH				

PROCESSING: STD-MAIL.REL,BCDC,01,BCDC

78.	MAILDRV	6E1C6089	000A	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	MAILDRV				
		EXTERNAL:	ENABLEZ	INITST	MAIL	ENDST	
79.	MAIL	924E9576	0103	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	MAIL				

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	MALINT	PROMPT	GOKEN	FOLD	EQUAL
			OPENF	GETLIN	ADDUSR	CLOSEF	INDEX
			MALCMD	LSTWHO	SDMAIL	RMAIL	CLEANF
80.	ADDUSR	681999F1	0188	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	ADDUSR				
		EXTERNAL:	SCRATF	CREATE	MERRDR	CLOSEF	EQUAL
			PUTLIN	PUTCHI	INDEX	MLOOK	MCOMNT
			ITOC	MGNAME	ISATTY	PROMPT	CTOIF
81.	CLEANF	6E1D9A86	0017	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	CLEANF				
		EXTERNAL:	REMOVE	MCOMNT	ENDST		
82.	DCCST	680C9C08	0090	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DCCST				
		EXTERNAL:	OPENF	MERRDR	GETLIN	EQUAL	PUTCHI
			PUTLIN	OUTNAM	CLOSEF		
83.	DOTOST	680C8B09	0082	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	DOTOST				
		EXTERNAL:	OPENF	MERRDR	PUTLIN	GETLIN	EQUAL
			OUTNAM	CLOSEF	PUTCHI		
84.	GETMID	6F268B5B	0037	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	GETMID				
		EXTERNAL:	IESR	JOBINFO	IAPAC		
85.	GSBJCT	75089D57	003D	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	GSBJCT				
		EXTERNAL:	ISATTY	PROMPT	GETLIN		
86.	LSTWHO	680D8AAA	00D3	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	LSTWHO				
		EXTERNAL:	OPENF	MERRDR	GETLIN	EQUAL	MLOOK
			INDEX	MCOMNT	MGNAME	LENGTH	MGDEFN
			CLOSEF				
87.	MALCMD	652A9264	0126	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	MALCMD				
		EXTERNAL:	SCOPY	OPENF	GETLIN	GOKEN	FOLD
			ADDUSR	CLOSEF	MCOMNT		
88.	MAILID	692A95E9	00A5	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	MAILID				
		EXTERNAL:	IESR	JOBINFO	IAPAW	SCOPY	LENGTH
			GOKEN	MCOMNT	CLEANF	ENDST	
89.	MALINP	641E92C8	00CA	REL	MM/DD/YY	HH:MM:SS	
		ENTRY:	MALINP				
		EXTERNAL:	CREATE	MERRDR	PSTMRK	OPENF	DOTOST
			PUTCHI	GSBJCT	PUTLIN	ISATTY	MCOMNT
			GETLIN	CLOWER	CLOSEF	CLEANF	ENDST

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
					DOCCST		
90.	MALINT	641A92D7		008D	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		MALINT			
		EXTERNAL:		QARG	ASSIGN	OPENF	GETLIN
				MINOX	MINSTAL	CLOSEF	GTOKEN
							ENDST
91.	MCOMNT	64189054		003E	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		MCOMNT			
		EXTERNAL:		PUTCH	PUTCHI		
92.	MERRDR	63188D6A		0022	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		MERRDR			
		EXTERNAL:		MCOMNT	CLEANF		
93.	MGDEFN	6C1A9B72		0028	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		MGDEFN			
		EXTERNAL:		LENGTH	SCOPY		
94.	MGNAME	6523914B		0053	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		MGNAME			
		EXTERNAL:		SCOPY			
95.	MINSTAL	5E256527		0063	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		MINSTAL			
		EXTERNAL:		LENGTH	MCOMNT	SCOPY	
96.	MLOOK	67438FCB		00C5	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		MLOOK			
		EXTERNAL:		CLOWER			
97.	OUTNAM	6F0D8A71		011D	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		OUTNAM			
		EXTERNAL:		INDEX	MLOOK	MGNAME	PUTLIN
				PUTCHI	GETMID	MGDEFN	GTOKEN
							LENGTH
98.	PSTMRK	5D118AE1		00A8	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		PSTMRK			
		EXTERNAL:		GDATE	GTIME	PUTLIN	PUTCHI
				OUTNAM	CREATE	CLOSEF	MAILID
99.	RMAIL	61429D71		011C	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		RMAIL			
		EXTERNAL:		SCOPY	LENGTH	MAILID	OPENF
				EQUAL	PUTCHI	PROMPT	CLOWER
				PUTLIN	CREATE	MCOMNT	REMOVE
							GETLIN
							CLOSEF
100.	SDMAIL	631F9083		0205	REL	MM/DD/YY	HH:MM:SS
		ENTRY:		SDMAIL			
		EXTERNAL:		MALINP	OPENF	MERRDR	CLOSEF
				EQUAL	CREATE	MCOMNT	PUTLIN
				MGNAME	SCOPY	MLOOK	INDEX
				GTOKEN	LENGTH	OUTNAM	MGDEFN

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 ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

101. OTOC 90389095 0007 REL MM/DD/YY HH:MM:SS
 ENTRY: OTOC

PROCESSING: STD-XREFUP.REL,LCD C,01,LCD C

102. XREFUP 520D9A7D 001C REL MM/DD/YY HH:MM:SS
 ENTRY: XREFUP
 EXTERNAL: ENABLE% PARAMS RDTABS PRTHDR SETTAB
 RDDK PRDCKX

103. PARAMS 621B8D10 008D REL MM/DD/YY HH:MM:SS
 ENTRY: PARAMS
 EXTERNAL: ISHFT% LDCF QARG ERROR

104. RDTABS 6B188AA6 00F8 REL MM/DD/YY HH:MM:SS
 ENTRY: RDTABS
 EXTERNAL: IESR REWD LDCF READLU UST
 ERROR ULOC COSYBF

105. COSYBF 7A1A8C11 0075 REL MM/DD/YY HH:MM:SS
 ENTRY: COSYBF

106. PRTHDR 6B0B8B1E 0079 REL MM/DD/YY HH:MM:SS
 ENTRY: PRTHDR
 EXTERNAL: IESR DATE IAPAW TIME Q8QINGOT
 Q8QARRAY Q8QLGOT1 Q8QENGOT

107. SETTAB 6B288B47 0044 REL MM/DD/YY HH:MM:SS
 ENTRY: SETTAB
 EXTERNAL: ISHFT%

108. RDDK 8D4B97A2 03F2 REL MM/DD/YY HH:MM:SS
 ENTRY: RDDK
 EXTERNAL: ISHFT% RDBLK ATDKT ATIDT GCDN
 Q8QINGOT Q8QLGOT1 Q8QENGOT

109. RDBLK 624B9D42 0051 REL MM/DD/YY HH:MM:SS
 ENTRY: RDBLK
 EXTERNAL: IESR ULOC LDCF READLU UST
 ERROR

110. GCDN 984C9B45 004C REL MM/DD/YY HH:MM:SS
 ENTRY: GCDN

111. ATIDT 6A3B9631 006A REL MM/DD/YY HH:MM:SS
 ENTRY: ATIDT
 EXTERNAL: ISHFT% ERROR

112. ATDKT 6A3B9AEF 00A5 REL MM/DD/YY HH:MM:SS
 ENTRY: ATDKT
 EXTERNAL: ISHFT% ERROR

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
113.	PRTDKX	640587A3		03F8	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			PRTDKX			
	EXTERNAL:			Q8QINGOT	Q8QENGOT	ISHFTZ	Q8QINENC Q8QLGOT1
				Q8QARRAY			
114.	ERROR	683D8D2B		0065	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ERROR			
	EXTERNAL:			Q8QINGOT	Q8QLGOT1	Q8QENGOT	Q8QSTOP

PROCESSING: STD-ITEMIZ.REL,LCD C,01,LCD C

115.	ITEMIZE	6D0174A9		00E9	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ITEMIZE			
	EXTERNAL:			ENABLEZ	INITST	PARAMS	ASSIGN Q8QSTOP
				EJECT	GETCH	CUPPER	DFN PFN
				DOFILE	FCLOSE	PXREF	Q8QINGOT Q8QENGOT
116.	PARAMS	62188D15		0088	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			PARAMS			
	EXTERNAL:			ISHFTZ	LOCF	QARG	ERROR
117.	PFN	8F499167		0058	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			PFN			
	EXTERNAL:			Q8QINGOT	Q8QARRAY	Q8QLGOT1	Q8QENGOT EJECT
118.	DFN	904990AC		0113	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			DFN			
	EXTERNAL:			IESR	JOBINF0	IAPAW	GTOKEN CUPPER
				UTYP	LOCF	OPEN	Q8QINGOT Q8QLGOT1
				Q8QENGOT			
119.	DOFILE	6F1898F0		00A6	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			DOFILE			
	EXTERNAL:			RDBLK	Q8QINGOT	Q8QENGOT	ABSBIN RELBIN
				EJECT	ABSDIR	RELDIR	
120.	RDBLK	62489D2A		0069	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			RDBLK			
	EXTERNAL:			IESR	UL0C	Q8QBUFIN	IFUNIT
121.	ABSBIN	751F3C35		0068	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			ABSBIN			
	EXTERNAL:			Q8QINENC	Q8QLGOT1	Q8QENGOT	Q8QINGOT
122.	RELBIN	641C91A8		01F2	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			RELBIN			
	EXTERNAL:			EJECT	CXREF	RDBLK	Q8QINGOT Q8QLGOT1
				Q8QARRAY	Q8QENGOT		
123.	CXREF	76378BF1		01A9	REL	MM/DD/YY	HH:MM:SS
	ENTRY:			CXREF			

ITEMIZE

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ITEM	NAME	CHECKSUM	REC	LEN	TYPE	DATE	TIME
		EXTERNAL:	LOCF	THREAD	WALK		
4.	PXREF	69378C43		0157	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	PXREF				
		EXTERNAL:	EJECT	Q8QINGOT	Q8QENGOT	WALK	Q8QARRAY
			Q8QLGOT1				
125.	WALK	884E92FC		0098	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	WALK				
		EXTERNAL:	ISHFT%	Q8QINGOT	Q8QLGOT1	Q8QENGOT	Q8QSTOP
126.	ABSDIR	751B8C03		0098	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	ABSDIR				
		EXTERNAL:	EJECT	Q8QINGOT	Q8QLGOT1	Q8QARRAY	Q8QENGOT
127.	RELDIR	64189286		0115	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	RELDIR				
		EXTERNAL:	Q8QINGOT	Q8QLGOT1	Q8QARRAY	Q8QENGOT	EJECT
128.	EJECT	664599F7		00A5	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	EJECT				
		EXTERNAL:	IESR	DATE	IAPAW	TIME	Q8QINGOT
			Q8QARRAY	Q8QLGOT1	Q8QENGOT		
129.	DUMPIT	72069206		0089	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	DUMPIT				
		EXTERNAL:	LOCF	Q8QINGOT	Q8QLGOT1	Q8QENGOT	

PROCESSING: STD-LISTF.REL,LCDC,01,LCDC

130.	LISTF	6D468ADD		01AE	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	LISTF				
		EXTERNAL:	ENABLE%	INITST	PARAMS	ASSIGN	Q8QSTOP
			GETCH	CUPPER	NEWPG	OPENF	PUTLIN
			PUTCH	CLOSEF	ENDST		
131.	PARAMS	62188D15		0088	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	PARAMS				
		EXTERNAL:	ISHFT%	LOCF	QARG	ERROR	
132.	NEWPG	6A4A8803		0087	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	NEWPG				
		EXTERNAL:	IESR	DATE	IAPAC	PUTLIN	ITOC
			PUTCH				

PROCESSING: STD-ZAP.REL,LCDC,01,LCDC

133.	ZAP	854E8EB6		0109	REL	MM/DD/YY	HH:MM:SS
		ENTRY:	ZAP				
		EXTERNAL:	ENABLE%	INITST	PARAMS	ASSIGN	Q8QSTOP
			PUTLIN	PUTCH	GETCH	CUPPER	REMOVE

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 ITEM NAME CHECKSUM REC LEN TYPE DATE TIME

ENDST

4. PARAMS 621B8015 0088 REL MM/DD/YY HH:MM:SS
 ENTRY: PARAMS
 EXTERNAL: ISHFT% LOCF QARG ERROR

PROCESSING: STD-DAYERR.REL,BCDC,01,BCDC

135. DAYERR 691C8633 005E REL MM/DD/YY HH:MM:SS
 ENTRY: DAYERR
 EXTERNAL: ENABLE% INITST ASSIGN PUTLIN GETLIN
 ENDST

PROCESSING: STD-FMAINT.REL,BCDC,01,BCDC

136. FMAINT 680E9C3C 025A REL MM/DD/YY HH:MM:SS
 ENTRY: FMAINT
 EXTERNAL: ENABLE% Q8QINGOT Q8QENGOT Q8QINGIN Q8QARRAY
 Q8QLGIN1 Q8QENGIN IFUNIT Q8QINDEC FTNULOC
 Q8QBUFIN Q8QLGOT1 FTNRELES

PROCESSING: STD-TCYB.REL,BCDC,01,BCDC

137. TCYB 884C7CFE 099F REL MM/DD/YY HH:MM:SS
 ENTRY: TCYB
 EXTERNAL: CLOSE OPEN PARM READLU UST
 PACK CTCOC ULOC UNLD PICKD
 PARM PICK WRITLU PICKC RELEASE
 WEOF ABDRT BKSP TIME REWD
 CTOI CTROR PACKC PACKD PACKO
 PICKI

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
ABORT	????????	FMTUTES	R4ERR	TCYB		
ABIN	ABSBIN	DOFILE				
ABSDIR	ABSDIR	DOFILE				
ADDLINE	ADDLINE	TEXT				
ADDSET	ADDSET					
ADDSpace	ADDSpace	ADDLINE				
ADDSCNTS	ADDSCNTS	ADDSpace				
ADDUSR	ADDUSR	MAIL	MALCMD			
ALLOCATE	????????	CREATE				
AMOVE	AMOVE					
ASSIGN	ASSIGN	DAYERR	ITEMIZE	LISTF	MALINT	ZAP
ATDKT	ATDKT	RDDK				
ATIDT	ATIDT	RDDK				
BKSP	????????	TCYB				
BRK	BRK	ADDLINE	COMAND	SPACE	TBLCONT	TEXT
CANT	CANT					
CLEANF	CLEANF	MAIL	MAILID	MALINP	MERROR	
CLOSEF	CLOSEF	ADDUSR	DOCCST	DOTOST	ENDST	LISTF
		LSTWHD	MAIL	MALCMD	MALINP	MALINT
		PSTM RK	RMAIL	SDMAIL		
CLOSE	????????	CLOSEF	TCYB			
CLOWER	CLOWER	FOLD	MALINP	MLOOK	RMAIL	
CLRLUN	FMTUTES	COMAND	FMT	TBLCONT		
COMAND	COMAND	FMT				
CONCAT	CONCAT					
COSYBF	COSYBF	RDTABS				
CREATE	CREATE	ADDUSR	MALINP	PSTM RK	RMAIL	SDMAIL

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
CTOC	????????	TCYB				
CTOIF	CTOIF	ADDUSR				
CTOI	????????	R4ERR	TCYB			
CTOIT	CTOIT	GETVAL				
CTOR	????????	TCYB				
CUPPER	CUPPER	ITEMIZE UPPER	LISTF ZAP	DFN	R4MFN	SCRATF
CXREF	CXREF	RELBIN				
DATE	????????	EJECT	GDATE	INIT	NEWPG	PRTHDR
DAYERR	DAYERR					
DEFLUN	FMTUTES	COMAND	INIT	TBLCONT		
DCCCST	DCCCST	MALINP				
DOFILE	DOFILE	ITEMIZE				
DOTOST	DOTOST	MALINP				
DUMPIT	DUMPIT					
EJECT	EJECT	ABSDIR RELBIN	DOFILE RELDIR	ITEMIZE	PFN	PXREF
ENABLE%	????????	DAYERR MAILDRV	FMAINT XREFUP	FMT ZAP	ITEMIZE	LISTF
ENDST	ENDST	CANT MAILDRV	CLEANF MAILID	DAYERR MALINP	ERROR MALINT	LISTF ZAP
EQUAL	EQUAL	ADDUSR RMAIL	DCCCST SDMAIL	DOTOST	LSTWHO	MAIL
ERROR	ERROR	ATDKT	ATIDT	PARAMS	RDBLK	ROTAB5
ERROR	ERROR	DUPLICATE ENTRYPOINT				
FCLOSE	????????	ITEMIZE				
FCOPY	FCOPY					
FLUSH	FLUSH					
FMAINT	FMAINT					

ITEMIZE

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ENTRYPOINT MODULE MODULES REFERENCING THE ENTRYPOINT

FMT	FMT					
FOLD	FOLD	MAIL	MALCMD			
FTNRELES	????????	FMAINT				
FTNULDC	????????	FMAINT				
GCDN	GCDN	RDDK				
GDATE	GDATE	PSTMRK				
GETARG	GETARG	INITST				
GETCH	GETCH	FCOPY	GETC	ITEMIZE	LISTF	ZAP
GETC	GETC					
GETIN	FMTUTES	FMT	TBLCONT			
GETLIN	GETCH	DAYERR MAIL RMAIL	DOCCST MALCMD SDMAIL	DOTOST MALINP SEEKL	GSDJCT MALINT	LSTWHO PROMPT
GETMID	GETMID	OUTNAM				
GETTL	GETTL	COMAND				
GETVAL	GETVAL	COMAND				
GETWRD	GETWRD					
GSDJCT	GSDJCT	MALINP				
GTIME	GTIME	PSTMRK				
GTOKEN	GTOKEN	GETARG QFN	MAIL OUTNAM	MAILID R4MFN	MALCMD SDMAIL	MALINT
IABSX	????????	ITDC	ITDC			
IAPAW	????????	CLOSEF MAILID R4OUTL	EJECT QFN	GETARG OPENF	GETCH PRTHDR	INIT R4MFN
IAPAC	????????	GDATE	GETMID	GTIME	NEWPG	SCRATF
IBDB	????????	CLOSEF SEEKL	ENDST	GETCH	PUTCH	R4OUTL
IESR	????????	AMOVE GETMID NEWPG	CLOSEF GTIME QFN	CREATE INIT OPENF	EJECT ISATTY PRTHDR	GDATE MAILID R4ERR

ITEMIZE

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
		R4MFN SCRATF	RDBLK SEEKL	RDBLK	RDTABS	REMOVE
IFUNIT	????????	FMAINT	RDBLK			
INDEX	INDEX	ADDUSR SDMAIL	CTOIF	LSTWHO	MAIL	OUTNAM
INITST	INITST	DAYERR	ITEMIZE	LISTF	MAILDRV	ZAP
INIT	INIT	FMT				
INMAP	INMAP					
INSUB	INSUB					
ISATTY	ISATTY	ADDUSR	GSBJCT	MALINP	PROMPT	
ISHFTX	????????	ATDKT PARAMS WALK	ATIDT PARAMS	ITOH PRTDKX	PARAMS RDDK	PARAMS SETTAB
ITEMIZE	ITEMIZE					
ITOC	ITOC	PUTDEC				
ITOC	ITOC	DUPLICATE ENTRYPOINT				
ITOH	ITOH					
JOBINFO	????????	GETMID	MAILID	DFN	R4MFN	
LEADBL	LEADBL	TEXT				
LENGTH	LENGTH	LSTWHO PROMPT	MAILID RMAIL	MGDEFN SDMAIL	MINSTAL	OUTNAM
LISTF	LISTF					
LDCF	????????	AMOVE GETCH PARAMS RDTABS	CLOSEF DFN PARAMS REMOVE	CREATE OPENF PUTCH	CXREF PARAMS R4OUTL	DUMPIT PARAMS RDBLK
LSTWHO	LSTWHO	MAIL				
MAILDRV	MAILDRV					
MAIL	MAIL	MAILDRV				
MAILID	MAILID	PSTMRK	RMAIL			
MALCMD	MALCMD	MAIL				

ITEMIZE

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

MALINT	MALINT	MAIL				
MALINP	MALINP	SDMAIL				
MARKL	MARKL					
MCOMNT	MCOMNT	ADDUSR MALINP SDMAIL	CLEANF MALINT	LSTWHO MERROR	MAILID MINSTAL	MALCMD RMAIL
MERROR	MERROR	ADDUSR SDMAIL	DOCCST	DOTOST	LSTWHO	MALINP
MGDEFN	MGDEFN	LSTWHO	OUTNAM	SDMAIL		
MGNAME	MGNAME	ADDUSR	LSTWHO	OUTNAM	SDMAIL	
MINO%	????????	MALINT				
MINSTAL	MINSTAL	MALINT				
MLOOK	MLOOK	ADDUSR	LSTWHO	OUTNAM	SDMAIL	
MOD%	????????	ITOC	ITOC			
MODIFY	????????	AMOVE				
NEWPG	NEWPG	LISTF				
OFN	OFN	ITEMIZE				
OPENF	OPENF	CREATE MAIL SDMAIL	DOCCST MALCMD	DOTOST MALINP	LISTF MALINT	LSTWHO RMAIL
OPEN	????????	OFN	OPENF	TCYB		
OTOC	OTOC					
OUTMAP	OUTMAP					
OUTNAM	OUTNAM	DOCCST	DOTOST	PSTMRC	SDMAIL	
OUTSUB	OUTSUB					
PACKC	????????	CLOSEF	ENDST	FMTUTES	GETCH	TCYB
PACKD	????????	FMTUTES	PUTCH	TCYB		
PACKO	????????	PUTCH	TCYB			
PACK	????????	FMTUTES	PUTCH	R4DJTL	TCYB	

ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
PARAMS	PARAMS	ITEMIZE	XREFUP			
PARAMS	PARAMS	DUPLICATE	ENTRYPOINT			
PARAMS	PARAMS	DUPLICATE	ENTRYPOINT			
PARAMS	PARAMS	DUPLICATE	ENTRYPOINT			
PARAM	????????	FMTUTES	FMTUTES	TCYB	TCYB	
PFN	PFN	ITEMIZE				
PFOOT	PFOOT	PUT	SPACE			
PHEAD	PHEAD	PUT	SPACE			
PICKC	????????	CLOSEF	FMTUTES	PUTCH	TCYB	
PICKD	????????	FMTUTES	GETCH	TCYB		
PICK	????????	FMTUTES	GETCH	TCYB		
PICKI	????????	SEEKL	TCYB			
PROMPT	PROMPT	ADDUSR	G SUBJECT	MAIL	RMAIL	
PRTDKX	PRTDKX	XREFUP				
PRTHDR	PRTHDR	XREFUP				
PSTMRK	PSTMRK	MALINP				
PUT	PUT	BRK	PUTTC	TEXT		
PUTCH	PUTCH	FCOPY	FLUSH	PUTC	PUTCHI	REMARK
PUTC	PUTC	PUTDEC				
PUTCHI	PUTCHI	ADDUSR	CLOSEF	DDCCST	DOTOST	ENDST
		GETCH	MALINP	MCOMNT	OUTNAM	PROMPT
		PSTMRK	REMARK	RMAIL	SDMAIL	
PUTC	FMTUTES	DUPLICATE	ENTRYPOINT			
PUTCH	FMTUTES	DUPLICATE	ENTRYPOINT			
PUTCI	FMTUTES	PFOOT	PHEAD	PUT	PUTTL	SKIP
PUTDEC	PUTDEC					
PUTLIN	PUTCH	CANT	PROMPT			
PUTLIN	FMTUTES	DUPLICATE	ENTRYPOINT			

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ENTRYPOINT	MODULE	MODULES REFERENCING THE ENTRYPOINT				
PUTTC	PUTTC	COMMAND				
PUTL	PUTTL	PFOOT	PHEAD			
PXREF	PXREF	ITEMIZE				
Q8QARRAY	????????	ABSDIR PRTHDR	EJECT PXREF	FMAINT RELBIN	PFN RELDIR	PRTDKX
Q8QBUFIN	????????	FMAINT	RDBLK			
Q8QENGDT	????????	ABSBIN ERROR PRTDKX RELBIN	ABSDIR FMAINT PRTHDR RELDIR	DOFILE ITEMIZE PXREF WALK	DUMPIT OFN R4ERR	EJECT PFN RDDK
Q8QENGIN	????????	FMAINT				
Q8QINGDT	????????	ABSBIN ERROR PRTDKX RELBIN	ABSDIR FMAINT PRTHDR RELDIR	DOFILE ITEMIZE PXREF WALK	DUMPIT OFN R4ERR	EJECT PFN RDDK
Q8QINENC	????????	ABSBIN	PRTDKX			
Q8QINGIN	????????	FMAINT				
Q8QINDEC	????????	FMAINT				
Q8QLGDT1	????????	ABSBIN FMAINT PXREF WALK	ABSDIR OFN R4ERR	DUMPIT PFN RDDK	EJECT PRTDKX RELBIN	ERROR PRTHDR RELDIR
Q8QLGIN1	????????	FMAINT				
Q8QSTOP	????????	ENDST ZAP	ERROR	ITEMIZE	LISTF	WALK
QARG	????????	MALINT	PARAMS	PARAMS	PARAMS	PARAMS
R4ERR	R4ERR	AMOVE PUTCH	ASSIGN R4OUTL	CREATE SEEK	GETCH	OPENF
R4MFN	R4MFN	AMOVE	CREATE	OPENF	REMOVE	
R4OUTL	R4OUTL	PUTCH				
RDBLK	RDBLK	DOFILE	RDDK			
RDBLK	RDBLK	DUPLICATE ENTRYPOINT				
RDDK	RDDK	XREFUP				

ITEMIZE

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ENTRYPOINT MODULE

MODULES REFERENCING THE ENTRYPOINT

RDTABS	RDTABS	XREFUP				
READLU	????????	RDBLK	RDTABS	TCYB		
RELBIN	RELBIN	DOFILE				
RELDIR	RELDIR	DOFILE				
RELEASE	????????	CLOSEF	REMOVE	TCYB		
REMARK	REMARK	ERROR				
REMOVE	REMOVE	CLEANF	RMAIL	ZAP		
RETURN	????????	FMTUTES				
REWD	????????	RDTABS	TCYB			
RMAIL	RMAIL	MAIL				
SCOPY	SCOPY	CONCAT	INSUB	MAILID	MALCMD	MGDEFN
		MGNAME	MINSTAL	OUTSUB	RMAIL	SCRATF
		SDMAIL				
SCRATF	SCRATF	ADDUSR				
SDMAIL	SDMAIL	MAIL				
SEEKL	SEEKL					
SET	SET	COMAND				
SETTAB	SETTAB	XREFUP				
SKIPBL	SKIPBL					
SKIP	SKIP	PFOOT	PHEAD	PUT	SPACE	
SPACER	FMTUTES	ADDSCNTS				
SPACE	SPACE	COMAND	FMT	TBLCONT		
STCOPY	STCOPY	CONCAT				
TBLCONT	TBLCONT	FMT				
TCYB	TCYB					
TEXT	TEXT	FMT				
THREAD	????????	CXREF				
TIME	????????	EJECT	GTIME	PRTHDR	SCRATF	TCYB

ITEMIZE
ENTRYPOINT MODULE

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MODULES REFERENCING THE ENTRYPOINT

TYPE	TYPE					
ULUC	????????	OPENF TCYB	RDBLK	RDBLK	RDTABS	SEEKL
UNDERL	UNDERL	TEXT				
UNLD	????????	TCYB				
UPPER	UPPER					
UST	????????	RDBLK	RDTABS	TCYB		
UTYP	????????	ISATTY	OFN	OPENF		
WALK	WALK	CXREF	PXREF			
WEDF	????????	TCYB				
WIDTH	WIDTH	ADDLINE	PUTTL	TEXT		
WRITLU	????????	TCYB				
XREFUP	XREFUP					
ZAP	ZAP					
ZLOG	FMTUTES	INIT				

ITEMIZE COMPLETE.

*SAVEPF(62,BLD-PLAN.LST,STDL,01,)

*EJ BLD-PLAN

***** END OF LIST *****