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10/18/82

FROM: Danny Darr SUBJECT: Maintenance Documentation

As part of my preparation for Manufacturing Release, I have prepared copies of several documents and disks for use in the Lab. This memo lists the items available for your use in maintaining the BASIC products.

A copy of the SYSTEM SOFTWARE DOCUMENTATION INDEX is attached. This document will be archived in ESO Manufacturing Specs. The index lists all archived media and the indexes available for the various BASIC subsystems.

The following documents/media will be given to Bill Eads and will be available in the Lab.

1. A notebook containing all subsystem software indexes.
2. A notebook containing the complete GENERAL MAINTENANCE GUIDE. This document includes general system maintenance information and users guides for the various development tools.
3. One LAB MASTER copy of BASIC Rev 1.0 (97050A, 97052A, and (97053A).
4. One LAB MASTER copy of the D# Rev 1.0 BASIC and internal binaries:

S-97050-90310-1	7925 Disc	Master source and documentation
S-97050-90311-1	Minifloppy	Workstation boot(7925)
S-97050-90312-1	7906 Disc	Tool source and documentation
S-97050-90313-1	Minifloppy	Workstation boot(7906)
S-97050-90314-1	LINUS tape	Backup of BASIC Validation Tests
S-97050-90320-1	Minifloppy	System build tools
S-97050-90321-1	Minifloppy	FCS build tools
S-97050-90322-1	Minifloppy	9826 BASIC boot
S-97050-90323-1	Minifloppy	9826 HPL boot

5. One LAB MASTER copy of each of the following media:

S-97050-90326-1	Minifloppy	D# BASIC Boot 1 of 3
S-97050-90327-1	Minifloppy	D# BASIC Boot 2 of 3
S-97050-90328-1	Minifloppy	D# BASIC Boot 3 of 3
S-97050-90329-1	Minifloppy	D# BASIC Binaries
S-97050-90330-1	Minifloppy	D# I/O Binary
S-97050-90331-1	Minifloppy	D# Graphics Binary
S-97050-90332-1	Minifloppy	D# Image Binary
S-97050-90333-1	Minifloppy	D- Internal Binaries



SOFTWARE DOCUMENTATION INDEX

DRAWING #A-97050-90340-1

BASIC LANGUAGE SYSTEM - Rev. 1.0
HP9000 Model 20

This document contains an overview of system software and engineering documentation archived for the following software products:

- 97050 - BASIC Operating System
- 97052 - Graphics Option
- 97053 - Image/Query Option

Other products which may be available for the BASIC Language System are archived separately.

CONTENTS:

- I. System Documentation Overview
- II. List of Magnetic Media Archived to Support HP9000 Model 20 BASIC Language System Products
- III. List of hard copy Documents Archived to Support HP9000 Model 20 BASIC Language System Products
- IV. Indexes of Engineering Documentation and Software Available on Archived Magnetic Media
 - A. General Maintenance Guide
 - B. Software Tool Index
 - C. BASIC Language Subsystem Documentation Index
 - D. SUN Operating System Documentation Index
 - E. I/O Subsystem Documentation Index
 - F. GRAPHICS Subsystem Documentation Index
 - G. IMAGE Subsystem Documentation Index
 - H. Query Subsystem Documentation Index
 - I. BASIC Utilities Index



I. System Documentation Overview

System software and engineering documentation for each product of the HP9000 Model 20 BASIC Language System are archived in ESO Manufacturing Specs. This document gives a brief description of the media on which the information is archived and a description of the organization of that information.

Section II of this document lists the various magnetic media which contain the software and documentation. Each disk or tape contains a specific format of information and is intended to serve a specific purpose on a specific system. The list in Section II includes the system type and purpose of each archived media.

Section III lists documents which are available only in hard copy form. These documents may be necessary to support system maintenance, but are not available in a machine readable form.

Section IV of this document describes software and documentation that is available in machine readable form. The major components of this documentation are the Maintenance Guide and Documentation Indexes.



II. List of Magnetic Media Archived to Support HP9000
Model 20 BASIC Language System Products

Two copies of each media will be archived in ESO Manufacturing Specs. The media contain all product source files, object files, documentation files, and software tools necessary for product maintenance.

Drawing #	MEDIA Type	Host system	Function
S-97050-90310-1	7925 Disc	9826-P	Source and documentation for 97050,97052, and 97053(IMAGE only)
S-97050-90311-1	5 1/4" Floppy	9826	Workstation boot(7925) for S-97050-90311-1
S-97050-90312-1	7906 Disc	9826-P	Source and documentation software tools used by 97050, 97052, 97053
S-97050-90313-1	5 1/4" Floppy	9826	Workstation boot(7906) for S-97050-90312-1
S-97050-90314-1	LINUS tape	HP9000	BASIC Validation Tests
S-97050-90315-1	5 1/4" Floppy	HP9000	Disc DDM QA Command Files
S-97050-90316-1	8" Floppy	HP9000	LIF/9845 DAM QA Cmd Files
S-97050-90317-1	5 1/4" Floppy	HP9000	HPIB/7970 DDM QA Cmd Files
S-97050-90318-1	9 track tape	HP3000	PARSER tools & Source files
S-97050-90319-1	8" Floppy	9845	BASIC Parser support tools
S-97050-90320-1	5 1/4" Floppy	HP9000	System build tools
S-97050-90321-1	5 1/4" Floppy	HP9000	FCS build tools
S-97050-90322-1	5 1/4" Floppy	9826	9826 BASIC boot
S-97050-90323-1	5 1/4" Floppy	9826	9826 HPL boot
S-97050-90324-1	8" Floppy	9845	Workstation boot (9845-M)
S-97050-90325-1	5 1/4" Floppy	HP9000	Performance Oscilloscope
S-97050-90326-1	5 1/4" Floppy	HP9000	D# BASIC Boot 1 of 3
S-97050-90327-1	5 1/4" Floppy	HP9000	D# BASIC Boot 2 of 3
S-97050-90328-1	5 1/4" Floppy	HP9000	D# BASIC Boot 3 of 3
S-97050-90329-1	5 1/4" Floppy	HP9000	D# BASIC Binaries
S-97050-90330-1	5 1/4" Floppy	HP9000	D# I/O Binary
S-97050-90331-1	5 1/4" Floppy	HP9000	D# Graphics Binary
S-97050-90332-1	5 1/4" Floppy	HP9000	D# Image Binary
S-97050-90333-1	5 1/4" Floppy	HP9000	D- Internal Binaries
S-97050-90334-1	8" Floppy	9845	Utilities Documentation
S-97050-90335-1	5 1/4" Floppy	HP9000	Utility Source 1 of 3
S-97050-90336-1	5 1/4" Floppy	HP9000	Utility Source 2 of 3
S-97050-90337-1	5 1/4" Floppy	HP9000	Utility Source 3 of 3
S-97053-90310-1	7906 Disc	HP9000	97053 QUERY, Schema source
S-97053-90311-1	8" Floppy	HP9000	DBM Test Disk "BIG2"
S-97053-90312-1	5 1/4" Floppy	HP9000	DBM Test Disk "Vol3"
S-97053-90313-1	5 1/4" Floppy	HP9000	IMAGE FCS Create Disk



III. List of hard copy Documents Archived to Support
HP9000 Model 20 BASIC Language System Products

Documents which are not in machine readable form may be archived in ESO Manufacturing Specs. Each document should be printed on a standard HP A-size drawing form. If this is not possible, a cover sheet on the approved form may be attached to the document.

A-97050-90340-1	Software Documenation Index
A-97050-90341-1	MODUS Workstation Manual Version 4
A-97050-90342-1	9826 Pascal Workstation - ALPHA Site Manual
A-97052-90310-1	Graphics Viewing Derivations
A-97052-90311-1	Graphics System Structure Diagram



IV. Indexes of Engineering Documentation and Software Available on Archived Magnetic Media

All source code and most documentation written for the HP9000 BASIC Language System is archived on magnetic media. Most of this information is stored in files on discs accessed using the 9826 Pascal Workstation. A General Maintenance Guide and several Software Indexes are provided to help find the files that contain information on a given subject. Instructions to obtain these documents is given at the end of this section.

The General Maintenance Guide includes information that is common to all other subsystems. This includes product release procedures, system build procedures, description of software development system, and software tool documentation.

Software Indexes are structured lists of all software and documentation available for each major component of the product. Items referenced in the indexes fall into the following general categories:

EXTERNAL REFERENCE SPECIFICATIONS (ERS): A detailed discussion of the USER'S view of a software product. This document should give an understanding of the features and intended use of the product.

INTERNAL REFERENCE SPECIFICATION (IRS): A discussion of the IMPLEMENTOR'S view of a software product. The original purpose of an IRS is to guide the implementation effort. However, an accurate IRS document is also useful to those responsible for post-implementation activities. Information included may include structure overview, design notes, algorithm derivations, feature specifications, standards, and so on.

MODULE INTERFACE SPECIFICATION (MIS): A precise description of the interface to software components within the system. The interface includes data structures (TYPES, VARIABLES, etc) and procedures exported, input/output parameters, error conditions, functions performed, etc.

MAINTENANCE GUIDES and STREAM FILES: This document is a collection of information about special maintenance procedures and tools. The document includes instructions necessary to produce the files (bits, binaries, etc) which are reproduced for customers.

SOURCE CODE: Text files containing commented source code for all components of the product.

LINK FILES: Files that may be processed by a LINKER (and possibly other tool, e.g. LINKMERGE) to produce a loadable BITS file.



ACCEPTANCE TESTS: A program or series of programs that may be run to verify the correct behavior of a software feature, subsystem or module. Each test also includes instructions necessary to run the tests and a description of expected results.

SOFTWARE TOOLS: Programs which are used to create, process or maintain components of the software product.



The LISTER and TEXT files for the General Maintenance Guide and Software Indexes are given below.

NOTE: The General Maintenance Guide and Software Tool Index are available on the Software Tools Disc (S-97050-90312-1). Other indexes are available on the BASIC Master Source Disc (S-97050-90310-1).

A. General Maintenance Guide

LISTER: doc:gen.maint.lst
TEXT: doc:gen.maint.text
doc:gen.maint1.text
doc:gen.maint2.text
doc:gen.maint3.text
doc:gen.maint4.text
doc:gen.maint5.text
doc:gen.maint6.text
doc:gen.keylex.text

B. Software Tool Index

LISTER: doc:tool.index.lst
TEXT: doc:tool.index.text

C. BASIC Language Subsystem Documentation Index

LISTER: ers:ba.dx.lst
TEXT: ers:ba.dx.text
ers:ba.dx.6a.text
ers:ba.dx.6b.text
ers:ba.dx.7.text
ers:ba.dx.8.text
ers:ba.dx.9.text

D. SUN Operating System Documentation Index

LISTER: ers:sunos.lst
TEXT: ers:os.index.text
bdo:bdo.index.text
rjb:rjb.index.text
dg:mem.index.text
dg:msg.index.text
dg:buf.index.text
rml:rml.index.text
cem:index.text
bdo:fr.index.text
mem:index.text
df:dp.index.text
df:df.index.text
rrr:osrtc.indx.text

E. I/O Subsystem Documentation Index

LISTER: ers:io.index.lst
TEXT: ers:io.index.text

F. GRAPHICS Subsystem Documentation Index

LISTER: ers:gr.index.lst
TEXT: ers:gr.index.text



- G. IMAGE Subsystem Documentation Index
LISTER: ers:db.pd.lst
TEXT: ers:db.pdindex.text

- H. Query Subsystem Documentation Index
LISTER: ers:query.dx.lst
TEXT: ers:query.dx.text

- I. BASIC Utility Documentation Index
(This index is saved on the BASIC Utilities source and
Documentation disk #S-97050-90334-1)

SOFTWARE TOOL
DOCUMENTATION INDEX

CONTENTS

- 0. Software Tool Documentation Index
- 1. General Maintenance Guide

Unless otherwise specified, all items referenced in this document are contained on the Software Tools disk
(Part # S-97050-90313-1)

- 0. Software Tool Documentation Index
 - A. *LISTER file: doc:tool.index.lst
 - B. TEXT file: doc:tool.index.lst
- 1. General Maintenance Guide
 - A. *LISTER file: doc:gen.maint.lst
 - B. TEXT files: doc:gen.maint.lst
 - doc:gen.maint1.text
 - doc:gen.maint2.text
 - doc:gen.maint3.text
 - doc:gen.maint4.text
 - doc:gen.maint5.text
 - doc:gen.maint6.text

2. Tool Documentation:

<u>Document Name</u>	<u>Text File Name</u>
"MODCAL-TO-FOCUS Compiler User Manual"	doc:usrman.lst doc:usrman1.text doc:usrman2.text doc:usrman3.text doc:usrman4.text doc:usrman5.text doc:usrman6.text doc:usrman7.text doc:usrman8.text doc:usrman9.text
"MODCAL-TO-FOCUS Compiler Internal Documentation"	doc:fcdoc.lst doc:fcdoc1.text doc:fcdoc2.text doc:fcdoc3.text doc:fcdoc4.text doc:fcdoc5.text doc:fcdoc6.text doc:fcdoc7.text doc:fcdoc8.text doc:fcdoc9.text doc:fcdoc10.text
"FOCUS Assembler ERS"	doc:assem.ers.lst

```

doc:assem.ers1.text
doc:assem.ers2.text
doc:assem.ers3.text

"MODCAL Cross Reference Generator"      doc:xref.guide.text

"FOCUS Linker ERS"                      doc:linker.ers.text
"FOCUS Linker - Link File Format"        doc:link.fmt.text
"Link File Merge Utility"               doc:lm.ers.text
"BITSPLIT ERS"                          doc:bsplit.ers.text
"SDFSPLIT ERS"                           doc:sdfspt.ers.text
"Linker Tools Maintenance Guide"        doc:link.maint.text

    (Lister file to list all debugger documents)
"User's Guide to the FOCUS Debugger"     doc:debugdoc.lst
doc:debug_ug1.lst
doc:debug_ug2.lst
"User's Guide to the FOCUS Debugger Utilities" doc:debug_ut.text
"FOCUS Debugger on Hardware"            doc:debug_hw.text
"Support Guide for the FOCUS Debugger"   doc:debug_sg.text

"FOCUS Performance Oscilloscope User Guide" doc:oscope.lst
doc:dubug_po.text

"STACKDEPTH ERS"                        doc:stackd.ers.text
"USBYXREF & USESXREF ERS"               doc:uxref.ers.text
"Creating Binaries and Factory-Compiled Subroutines" doc:bins&fcs.text

```

3. Tool Source Code:

<u>Tool Name</u>	<u>Source File Name</u>
MODCAL-FOCUS Compiler	fcomp: (entire volume of files)
Focus Assembler	fassem: (entire volume of files)
MODCAL Cross Reference	*misc:xref.main.text misc:mx.pa(2.3).text misc:mx.ta(2.3).text misc:mx.li(2.3).text misc:mx.sc(2.3).text
BITSPLIT (9826 only)	*linker:bitsplit.text
EXAMBITS (9845 only)	*linker:exambits.text
EXAMLINK (9845 only)	*linker:examlink.text
FINDREFS	*linker:findrefs.text (9845 version) *linker:findrefsc.text(9826 version) linker:findrefs1.text
FINDSEQS (9845 only)	*linker:findseqs.text linker:findseqs1.text
LINKER	*linker:linkd.text (9845 debug version) linker:linkp.text (9845 production version) linker:linkdc.text (9826 debug version) linker:linkpc.text (9826 production version) linker:linkdecls.text linker:linkinit.text

```

linker:link32.text
linker:linkutils.text
linker:link1.text
linker:link2.text
linker:link3.text
linker:link4.text

LINKMERGE (9826 only) *linker:linkmerge.text
linker:linkmerge1.text

LINKSIZE *linker:linksize.text (9845 version)
linker:linksizec.text (9826 version)

SDFSPLIT (9826 only) *linker:sdfsplitt.text

STACKDEPTH *linker:stackdepth.text (9845 version)
linker:stackdpthc.text (9826 version)
linker:stackdpth1.text

USBYXREF *linker:usbyxref.text (9845 version)
*linker:usbyxrefc.text (9826 version)
linker:usbyxref1.text

USESXREF *linker:usesxref.text (9845 version)
linker:usesxrefc.text (9826 version)
linker:usesxref1.text

```

(The following tool source files are available on the MASTER BASIC Source disk #S-97050-90310-1)

Focus Debugger (see "Support Guide for the FOCUS Debugger")

```

Exec Mon *gdf:c.emonf.text
gdf:def.debug.text
osdefs:def.exmonf.text
gdf:exgqrutils.text
*gdf:msus.tbl.text (FOCUS asm table)
gdf:lm.emonf.text (linkmerge commands)
system:execmonf.link

```

CBINFCS (see "BASIC Documentation Index")

(The following tool source files are available on the Performance Oscilloscope disk #S-97050-90325-1)

Oscope

(Tools and data required to generate HP9000 BASIC keyword tables are available on the Grammar Tools Tape #S-97050-90318-1 or BASIC Support tools disk #S-97050-90319-1)

BASIC SOFTWARE DOCUMENTATION INDEX

CONTENTS

0. Software Documentation Index
1. External Reference Specification (ERS)
2. Internal Reference Specification (IRS)
3. Module Interface Specifications (MIS)
4. Maintenance Guide
5. Stream/Linker Command Files
6. Source Files
7. Link Files
8. Special Test Tools
9. GAR Modules/Files and Special DEF file notes

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disk (Part #S-97050-90310-1)

0. Software Documentation Index
 - A. *LISTER file: ers:ba.dx.lst
 - B. TEXT file: ers:ba.dx
 ers:ba.dx.6a
 ers:ba.dx.6b
 ers:ba.dx.7
 ers:ba.dx.8
 ers:ba.dx.9

1. External Reference Specification (ERS)

The ERS for Basic is the Basic Language Reference Manual.

2. Internal Reference Specification (IRS)
 - A. *LISTER file:

HLC:KYBD.IRS.LST

- B. TEXT files:

HLC:KYBD.IRS.TEXT

3. Module Interface Specifications (MIS)

All files are on volume MIS:, unless otherwise noted.

READ_PRINT_NUM_SUPPORT
MIS.RPNUM.TEXT

MM_UTILITIES
MIS.MMUTIL.TEXT

MASS_MEM
MIS.MMSYS.TEXT

BASIC_FILE_MGR
MIS.MMMGR.TEXT

PROGIO
MIS.PROGIO.TEXT

ID_PROCS
MIS.IOJUMP.TEXT

MMM_COMPILER
MIS.MMCOMP.TEXT

MASS_MEMORY_OPTION
MIS.MMOPT.TEXT

AP_ROM_MM_SUPPORT
MIS.APMM.TEXT

DAWN MASS MEMORY OVERVIEW
MM.OVRVIEW.TEXT

DAWN DATA FILE TYPES
ERS.FILES.TEXT

ERROR HANDLER
TWT:MIS.EH.TEXT

EXPRESSION CODE GENERATOR
TWT:MIS.EXP.TEXT

SPECIAL FUNCTION KEY MODULE
TWT:MIS.SFK.TEXT

BASIC EDITOR
TWT:MIS.EDIT.LST
TWT:MIS.EDIT.1.TEXT
TWT:MIS.EDIT.2.TEXT
TWT:MIS.EDIT.3.TEXT

MATH MIS
TWT:MIS.MATH.TEXT

SEPERATE COMPILER MIS
TWT:MIS.SC.TEXT

OPTION ROM FUNCTION INTERFACE MIS
TWT:MIS.EXP.TEXT

RUN MODULE MIS
MIS.RM.TEXT

COMPILER MODULE MIS
MIS.COMP.TEXT

EXECUTIVE MODULE MIS
MIS.EM.TEXT

HUMAN INTERFACE OPTION
HLC:HIOPT.MIS.LST
HLC:HIOPT.MIS.TEXT

HUMAN INTERFACE
HLC:HI.MIS.LST
HLC:HI.MIS.TEXT

KEYCODE CONVERSION
HLC:KYCVT.MIS.LST
HLC:KYCVT.MIS.TEXT

BASIC HUMAN INTERFACE
HLC:BHI.MIS.LST
HLC:BHI.MIS.TEXT

HUMAN INTERFACE DEMON
HLC:HIDEM.MIS.LST
HLC:HIDEM.MIS.TEXT

CRT
HLC:CRT.MIS.LST
HLC:CRT.MIS.1.TEXT
HLC:CRT.MIS.2.TEXT

INTERNAL PRINTER DRIVER
HLC:INTPRT.MIS.LST
HLC:INTPRT.MIS.TEXT

KEYBOARD
HLC:KYBD.MIS.LST
HLC:KYBD.MIS.1.TEXT
HLC:KYBD.MIS.2.TEXT

SCANNER MIS
MIS.SCAN.LST
MIS.SCAN1.TEXT
DEF.SCAN.TEXT
DEF.SSCAN.TEXT
MIS.SCAN3.TEXT
MIS.SCAN4.TEXT

HOW TO MAKE KEYWORD TABLES FOR DAWN BASIC
KEYWORDS.LST
KEYWORDS.TEXT

PARSER MIS
MIS.PARSER.LST
MIS.PAR1.TEXT
DEF.PARSER.TEXT
MIS.PAR3.TEXT

SYMBOL TABLE MIS and IRS
MIS.SMTB.LST
MIS.SMTB1.TEXT
DEF.SMTB.TEXT
MIS.SMTB3.TEXT

MIS.SMTB4.TEXT

LISTER MIS and IRS

MIS.LIST.LST

MIS.LIST1.TEXT

DEF.LIST.TEXT

MIS.LIST3.TEXT

ICODE MODULE MIS

MIS.ICODE.LST

MIS.ICODE1.TEXT

DEF.ICODE.TEXT

MIS.ICODE3.TEXT

MIS.ICODE4.TEXT

MIS.ICODE5.TEXT

PROGRAM CHAIN and INTERMEDIATE CODE DESCRIPTION

P.CHAIN.LST

P.CHAIN1.TEXT

P.CHAIN1.5.TEXT

P.CHAIN2.TEXT

P.CHAIN2.5.TEXT

P.CHAIN3.TEXT

GENERIC PARSER TABLE MIS

MIS.PTAB.LST

MIS.PTAB1.TEXT

DEF.PTAB.TEXT

DEF.APTAB.TEXT

DEF.MMTAB.TEXT

DEF.IOTAB.TEXT

MIS.PTAB3.TEXT

INPUT MODULE IRS/MIS

MIS.INPUT.LST

MIS.INPUT1.TEXT

MIS.INPUT2.TEXT

MIS.INPUT3.TEXT

DEF.INPUT.TEXT

MIS.INPUT5.TEXT

TRACE OVERVIEW AND MIS

MIS.TRACE.LST

MIS.TRACE1.TEXT

DEF.TRACE.TEXT

DEF.TRASMB.TEXT

MIS.TRACE3.TEXT

MISC MODULE MIS

MIS.MISC.LST

MIS.MISC1.TEXT

DEF.MISC.TEXT

MIS.MISC3.TEXT

CONTEXT MANAGER MIS

MIS.CNTXT.LST

MIS.CNTXT1.TEXT

DEF.CNTXT.TEXT
MIS.CNTXT3.TEXT

CHAIN MODULE MIS
MIS.CHAIN.LST
MIS.CHAIN1.TEXT
DEF.CHAIN.TEXT
MIS.CHAIN3.TEXT

STRUCTURED STATEMENT MODULE MIS
MIS.STR.LST
MIS.STR1.TEXT
DEF.STRUCT.TEXT
MIS.STR3.TEXT

AP ROM STRUCTURED STATEMENT MIS
MIS.APSTR.LST
MIS.APSTR1.TEXT
DEF.APSTR.TEXT
MIS.APSTR3.TEXT

REAL TIME CLOCK MIS
MIS.RTC.LST
MIS.RTC1.TEXT
DEF.OSRTC.TEXT
DEF.RTC.TEXT
DEF.APRTC.TEXT
MIS.RTC3.TEXT

OPTION INTERFACE UNIT MIS
MIS.OPINT.LST
MIS.OPINT1.TEXT
DEF.OPINT.TEXT
DEF.OPINT2.TEXT
MIS.OPINT3.TEXT

ALLOCATE MODULE MIS and IRS
MIS.ALOC.LST
MIS.ALOC1.TEXT
DEF.ALLOC.TEXT
MIS.ALOC3.TEXT

DELSUB MODULE MIS and IRS
MIS.DSUB.LST
MIS.DSUB1.TEXT
DEF.DELSUB.TEXT
MIS.DSUB3.TEXT

BASIC LEVEL PARTITION and EVENT INTERFACE MIS
MIS.PART.LST
MIS.PART1.TEXT
DEF.PART_C.TEXT
DEF.PART_B.TEXT
MIS.PART3.TEXT

4 Maintenance Guide

- A. *LISTER file:
- B. TEXT files:

5. Stream Files

A. Linker Command Files:

- 1. blink: linkcom.d - Basic D# linker command file
- 2. bl-: linkcom.d - Basic D- linker command file

B. Compiler Stream Files

- 1. system: comp.#.ba.text
- 2. system: comp.-.ba.text
- 3. system: comp.l.ba.text

The following tables list each source, link, or stream file archived for the xxxxx Product. The table is a fixed format as follows:

- Col 1-40 - Module name
- Col 41-67 - File name
- Col 68-71 - File type code:
 - MSC (Modcal Source)
 - ASC (Focus Assembler Source)
 - LINK (Link file)
 - * in column 68 indicates the file which "drives" the compile or assembly process
- Col 73-74 - Target Segment

6 Source Files

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
READ_PRINT_NUM_SUPPORT	kmf:c.rpnum.text	*MSC	3
READ_PRINT_NUM_SUPPORT	bdefs:def.rpnum.text	MSC	3
READ_PRINT_NUM_SUPPORT	errors:err.mmm.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:rp.utili.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:typ.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:array_ic.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:onend.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:setup.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:close.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:assign.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:chkread.text	MSC	3
MM_UTILITIES	kmf:c.mmutil.text	*MSC	3
MM_UTILITIES	bdefs:def.mmutil.text	MSC	3
MM_UTILITIES	errors:err.mmm.text	MSC	3
MM_UTILITIES	kmf:recursive.text	MSC	3
MM_UTILITIES	kmf:mm.utili.text	MSC	3
MM_UTILITIES	kmf:returncode.text	MSC	3
MM_UTILITIES	kmf:pathfinder.text	MSC	3
BASIC_FILE_MGR	kmf:c.mm.mgr.text	*MSC	3
BASIC_FILE_MGR	bdefs:def.mm.mgr.text	MSC	3
BASIC_FILE_MGR	errors:err.mmm.text	MSC	3
BASIC_FILE_MGR	kmf:file_utils.text	MSC	3
BASIC_FILE_MGR	kmf:initvol.text	MSC	3
BASIC_FILE_MGR	kmf:newcat.text	MSC	3
BASIC_FILE_MGR	kmf:setmsi.text	MSC	3
BASIC_FILE_MGR	kmf:create.text	MSC	3
MASS_MEM	kmf:c.mmsys.text	*MSC	3
MASS_MEM	bdefs:def.mmsys.text	MSC	3
MASS_MEM	errors:err.mmm.text	MSC	3
MASS_MEM	kmf:subexit.text	MSC	3
MASS_MEM	kmf:sysutil.text	MSC	3
PROG_IO	kmf:c.progio.text	*MSC	3
PROG_IO	bdefs:def.progio.text	MSC	3
PROG_IO	errors:err.mmm.text	MSC	3
PROG_IO	kmf:prog.utili.text	MSC	3
PROG_IO	kmf:lister.text	MSC	3
PROG_IO	kmf:store.text	MSC	3
PROG_IO	kmf:newload.text	MSC	3
PROG_IO	kmf:loadbin.text	MSC	3
PROG_IO	kmf:loadkey.text	MSC	3
DATA_FILE_TYPE	kmf:c.data.text	*MSC	3
DATA_FILE_TYPE	errors:err.mmm.text	MSC	3
DATA_FILE_TYPE	kmf:dwn.utili.text	MSC	3
DATA_FILE_TYPE	kmf:dwnnums.text	MSC	3
DATA_FILE_TYPE	kmf:dwnstr.text	MSC	3

IO_PROCS	kmf:c.iojump.text	*MSC 3
COMPILE_LINE	dml:c.compline.text	*MSC 4
COMPILE_LINE	bdefs:def.compl.text	MSC 4
COMPILE_LINE	error:err.compl.text	MSC 4
COMPILE_LINE	dml:compline1.text	MSC 4
COMPILE_LINE	dml:compline2.text	MSC 4
COMPILE_LINE	dml:rmcomp.text	MSC 4
COMPILER	dml:c.computil.text	*MSC 4
COMPILER	bdefs:def.comp.text	MSC 4
COMPILER	dml:def.comp2.text	MSC 4
COMPILER	error:err.comp.text	MSC 4
COMPILER	dml:computil.text	MSC 4
COMPILER	dml:lineutil.text	MSC 4
FOCUS_INSTRUCTIONS	dml:c.focus.text	*MSC 4
FOCUS_INSTRUCTIONS	bdefs:def.focus.text	MSC 4
FOCUS_INSTRUCTIONS	dml:def.focus2.text	MSC 4
FOCUS_INSTRUCTIONS	error:err.focus.text	MSC 4
FOCUS_INSTRUCTIONS	dml:focus.text	MSC 4
COMPSTMT	dml:c.stmt.text	*MSC 4
COMPSTMT	bdefs:def.stmt.text	MSC 4
COMPSTMT	error:err.stmt.text	MSC 4
COMPSTMT	dml:stmt.text	MSC 4
COMPSTMT	dml:compfor.text	MSC 4
EXP	twf:c.exp.text	*MSC 4
EXP	bdefs:def.exp.text	MSC 4
EXP	bdefs:def.exp2.text	MSC 4
EXP	error:err.ttcomp.text	MSC 4
	(Contains errors for all modules on twf: except MATH, EDITOR, SFKxx, ERROR_HANDLER)	
EXP	twf:exp.text	MSC 4
STRUCTURED_STATEMENTS	rrr:c.struct.text	*MSC 4
STRUCTURED_STATEMENTS	bdefs:def.struct.text	MSC 4
STRUCTURED_STATEMENTS	error:err.dr.text	MSC 4
STRUCTURED_STATEMENTS	rrr:struct.text	MSC 4
RTC	rrr:c.rtc.text	*MSC 4
RTC	bdefs:def.rtc.text	MSC 4
RTC	error:err.rtc.text	MSC 4
RTC	rrr:rtc.text	MSC 4
PASS1	twf:c.pass1.text	*MSC 4
PASS1	bdefs:def.pass1.text	MSC 4
PASS1	twf:pi.text	MSC 4
PASS1	twf:piutils.text	MSC 4
PASS1	twf:param.text	MSC 4
PASS1	twf:doemtb.text	MSC 4
PASS1	twf:partemp.text	MSC 4

PASS2	twf:c.pass2.text	*MSC	4
PASS2	bdefs:def.pass2.text	MSC	4
PASS2	twf:p2.text	MSC	4
PASS2	twf:p2glob.text	MSC	4
PASS2	twf:p2utils.text	MSC	4
PASS2	twf:calloptemp.text	MSC	4
PASS2	twf:ldarray.text	MSC	4
PASS2	twf:starray.text	MSC	4
MMM_COMPILER	kmf:c.mmmcomp.text	*MSC	4
MMM_COMPILER	bdefs:Def.mmmcomp.text	MSC	4
MMM_COMPILER	errors:err.mmm.text	MSC	4
MMM_COMPILER	kmf:ls_gen.text	MSC	4
MMM_COMPILER	kmf:io.codegen.text	MSC	4
MMM_COMPILER	kmf:codegen2.text	MSC	4
MMM_COMPILER	kmf:codegen3.text	MSC	4
MMM_COMPILER	kmf:loadgen.text	MSC	4
BCOMP	twf:c.bc.text	*MSC	4
BCOMP	bdefs:def.bc.text	MSC	4
BCOMP	twf:bccomp.text	MSC	4
SIMPLE_MATH_FUNCTIONS	gls:smath.dvr.text	*MSC	4
SIMPLE_MATH_FUNCTIONS	bdefs:def.smath.text	MSC	4
SIMPLE_MATH_FUNCTIONS	bdefs:def.trunc.text	MSC	4
SIMPLE_MATH_FUNCTIONS	gls:smath.imp.text	MSC	4
SCANNER_MODULE	rrr:c.scan.text	*MSC	5
SCANNER_MODULE	bdefs:def.scan.text	MSC	5
SCANNER_MODULE	error:err.scan.text	MSC	5
SCANNER_MODULE	rrr:scan1.text	MSC	5
SCANNER_MODULE	rrr:par.scan.text	MSC	5
SCANNER_MODULE	rrr:keymatch.text	MSC	5
SCANNER_MODULE	rrr:scan2.text	MSC	5
PARSERS	rrr:c.parser.text	*MSC	5
PARSERS	bdefs:def.parser.text	MSC	5
PARSERS	error:err.parser.text	MSC	5
PARSERS	rrr:parser1.text	MSC	5
PARSERS	rrr:mcon.text	MSC	5
PARSERS	rrr:econ.text	MSC	5
PARSERS	rrr:par.scan.text	MSC	5
PARSERS	rrr:parser2.text	MSC	5
PARSERS	rrr:parser3.text	MSC	5
SYMBOL_TABLE_MODULE	rrr:c.smtb.text	*MSC	5
SYMBOL_TABLE_MODULE	bdefs:def.smtb.text	MSC	5
SYMBOL_TABLE_MODULE	error:err.smtb.text	MSC	5
SYMBOL_TABLE_MODULE	rrr:smtb1.text	MSC	5
SYMBOL_TABLE_MODULE	rrr:smtb2.text	MSC	5
SMTB_STK	rrr:c.smtb.stk.text	*MSC	5
SMTB_STK	bdefs:def.smtb.text	MSC	5
SMTB_STK	error:err.smtb.text	MSC	5
SMTB_STK	rrr:smtb1.text	MSC	5
SMTB_STK	rrr:smtb2.text	MSC	5

(The above module is not part of the released system. It is a

special module that the stackdepth programs use instead of
 SYMBOL_TABLE_MODULE. It removes some recursion problems from
 the stackdepth printouts)

LISTER	rrr:c.list.text	*MSC	5
LISTER	bdefs:def.list.text	MSC	5
LISTER	rrr:list.text	MSC	5
CDNTEXT_CHAIN_SUPPORT	rrr:c.chain.text	*MSC	5
CDNTEXT_CHAIN_SUPPORT	bdefs:def.chain.text	MSC	5
CONTEXT_CHAIN_SUPPORT	error:err.dr.text	MSC	5
CONTEXT_CHAIN_SUPPORT	rrr:chain.text	MSC	5
BASIC_CNTXT_MGR	rrr:c.cntxt.text	*MSC	5
BASIC_CNTXT_MGR	bdefs:def.cntxt.text	MSC	5
BASIC_CNTXT_MGR	rrr:cntxt.text	MSC	5
STRING_FUNCTIONS	gls:strfns.dvr.text	*MSC	5
STRING_FUNCTIONS	bdefs:def.strfns.text	MSC	5
STRING_FUNCTIONS	gls:strfns.imp.text	MSC	5
LEXICAL_FUNCTIONS	gls:lex.dvr.text	*MSC	5
LEXICAL_FUNCTIONS	bdefs:def.lex.text	MSC	5
LEXICAL_FUNCTIONS	bdefs:def.lexasm.text	MSC	5
LEXICAL_FUNCTIONS	gls:lex.imp.text	MSC	5
MATH	twt:c.math.text	*MSC	5
MATH	bdefs:def.math.text	MSC	5
MATH	twt:def.hmath.text	MSC	5
MATH	error:err.math.text	MSC	5
MATH	twt:mod.math.text	MSC	5
BASIC_EXECUTIVE	dml:c.em.text	*MSC	6
BASIC_EXECUTIVE	bdefs:def.em.text	MSC	6
BASIC_EXECUTIVE	error:err.em.text	MSC	6
BASIC_EXECUTIVE	dml:em.util.text	MSC	6
BASIC_EXECUTIVE	dml:em.ed.text	MSC	6
BASIC_EXECUTIVE	dml:em.part.text	MSC	6
BASIC_EXECUTIVE	dml:em.se.text	MSC	6
BASIC_EXECUTIVE	dml:em.state.text	MSC	6
OPTION_INTERFACE	rrr:c.opint.text	*MSC	6
OPTION_INTERFACE	bdefs:def.opint.text	MSC	6
OPTION_INTERFACE	bdefs:def.opint2.text	MSC	6
OPTION_INTERFACE	error:err.opint.text	MSC	6
OPTION_INTERFACE	rrr:opint.text	MSC	6
BASIC_WAIT	dml:c.wait.text	*MSC	6
BASIC_WAIT	bdefs:def.wait.text	MSC	6
BASIC_WAIT	error:err.wait.text	MSC	6
BASIC_WAIT	dml:wait.text	MSC	6
INPUT_HANDLER	rrr:c.input.text	*MSC	6
INPUT_HANDLER	bdefs:def.input.text	MSC	6
INPUT_HANDLER	error:err.input.text	MSC	6
INPUT_HANDLER	rrr:input.hand.text	MSC	6
INPUT_HANDLER	rrr:input.code.text	MSC	6

ICODE_MODULE	rrr:c.icode.text	*MSC 6
ICODE_MODULE	bdefs:def.icode.text	MSC 6
ICODE_MODULE	error:err.icode.text	MSC 6
ICODE_MODULE	rrr:sm.init.text	MSC 6
ICODE_MODULE	rrr:icode0.text	MSC 6
ICODE_MODULE	rrr:icode1.text	MSC 6
ICODE_MODULE	rrr:icode2.text	MSC 6
ICODE_MODULE	rrr:icode3.text	MSC 6
MISC_IO_COMP_SUPPORT	rrr:c.misc.text	*MSC 6
MISC_IO_COMP_SUPPORT	bdefs:def.misc.text	MSC 6
MISC_IO_COMP_SUPPORT	error:err.dr.text	MSC 6
MISC_IO_COMP_SUPPORT	rrr:misc.text	MSC 6
MISC_IO_COMP_SUPPORT	rrr:comp.misc.text	MSC 6
MISC_IO_COMP_SUPPORT	rrr:list.code.text	MSC 6
TRACE_MODULE	rrr:c.trace.text	*MSC 6
TRACE_MODULE	bdefs:def.trace.text	MSC 6
TRACE_MODULE	error:err.dr.text	MSC 6
TRACE_MODULE	rrr:trace0.text	MSC 6
TRACE_MODULE	rrr:trace1.text	MSC 6
TRACE_MODULE	rrr:trace2.text	MSC 6
ERROR_HANDLER	twt:c.eh.text	*MSC 6
ERROR_HANDLER	bdefs:def.eh.text	MSC 6
ERROR_HANDLER	error:err.hi.text	MSC 6
	(Contains errors for ERROR_HANDLER, EDITOR and SFKxx)	
ERROR_HANDLER	twt:eh.text	MSC 6
COM	dm1:c.com.text	*MSC 6
COM	bdefs:def.com1.text	MSC 6
COM	dm1:def.com2.text	MSC 6
COM	error:err.com.text	MSC 6
COM	dm1:com1.text	MSC 6
COM	dm1:com2.text	MSC 6
COM	dm1:com3.text	MSC 6
ON	dm1:c.on.text	*MSC 6
ON	bdefs:def.on1.text	MSC 6
ON	dm1:def.on2.text	MSC 6
ON	error:err.on.text	MSC 6
ON	dm1:on.text	MSC 6
PRERUN	dm1:c.prerun.text	*MSC 6
PRERUN	bdefs:def.prun1.text	MSC 6
PRERUN	dm1:def.prun2.text	MSC 6
PRERUN	error:err.prerun.text	MSC 6
PRERUN	dm1:prerun1.text	MSC 6
PRERUN	dm1:prerun2.text	MSC 6
PRERUN	dm1:prerun3.text	MSC 6
	(note - some of the procedures in PRERUN are linked into segment 4 instead of segment 6)	
BASIC_RUN	dm1:c.rm.text	*MSC 6

BASIC_RUN	bdefs:def.rm1.text	MSC 6
BASIC_RUN	dml:def.rm2.text	MSC 6
BASIC_RUN	error:err.rm.text	MSC 6
BASIC_RUN	dml:rm1.text	MSC 6
BASIC_RUN	dml:rm2.text	MSC 6

RUN_PROCESS	dml:c.rp.text	*MSC 6
RUN_PROCESS	bdefs:def.rp.text	MSC 6
RUN_PROCESS	dml:def.rp2.text	MSC 6
RUN_PROCESS	error:err.rp.text	MSC 6
RUN_PROCESS	dml:rp.text	MSC 6
RUN_PROCESS	dml:primal1.1.text	MSC 6
RUN_PROCESS	dml:primal1.2.text	MSC 6
RUN_PROCESS	dml:primal2.text	MSC 6

SOLC_TRAP	dml:c.solc.text	*MSC 6
SOLC_TRAP	bdefs:def.solc1.text	MSC 6
SOLC_TRAP	bdefs:def.solc2.text	MSC 6
SOLC_TRAP	bdefs:def.solc3.text	MSC 6
SOLC_TRAP	dml:solc.text	MSC 6

THROW	dml:c.throw.text	*MSC 6
THROW	bdefs:def.throw.text	MSC 6
THROW	dml:throw.text	MSC 6
THROW	dml:busy.text	MSC 6

THROW_STK	dml:c.throw.s.text	*MSC 6
THROW_STK	bdefs:def.throw.text	MSC 6
THROW_STK	dml:throw.text	MSC 6
THROW_STK	dml:busy.text	MSC 6

(The above module is not part of the released system. It is a special module that the stackdepth programs use instead of THROW. It removes some recursion problems from the stackdepth printouts)

BASMSG	dml:c.basmsg.text	*MSC 6
BASMSG	bdefs:def.basmsg.text	MSC 6
BASMSG	dml:basmsg.text	MSC 6

CRT	hlc:c.crt.text	*MSC 7
CRT	bdefs:def.crt.text	MSC 7
CRT	bdefs:def.crt2.text	MSC 7
CRT	bdefs:def.crt2s.text	MSC 7
CRT	bdefs:def.crtpr.text	MSC 7
CRT	bdefs:def.crtasm.text	MSC 7
CRT	error:err.kbdcrn.text	MSC 7
	(Also contains errors for KEYBOARD module)	
CRT	hlc:mod.crt.text	MSC 7
CRT	hlc:crtio.text	MSC 7
CRT	hlc:wprims.text	MSC 7
CRT	hlc:crtprint.text	MSC 7
CRT	hlc:kybdisp.text	MSC 7
CRT	hlc:editsup.text	MSC 7
CRT	hlc:crtinit.text	MSC 7
SFKMF	twt:c.sfkmf.text	*MSC 7
SFKMF	bdefs:def.sfkmf.text	MSC 7
SFKMF	twt:sfkmf.text	MSC 7
HI	hlc:c.hi.text	*MSC 7
HI	bdefs:def.hi.text	MSC 7
HI	hlc:mod.hi.text	MSC 7
BASIC_HUMAN_INTERFACE	hlc:c.bhi.text	*MSC 7
BASIC_HUMAN_INTERFACE	bdefs:def.bhi.text	MSC 7
BASIC_HUMAN_INTERFACE	hlc:mod.bhi.text	MSC 7
HI_DEMON	hlc:c.hidem.text	*MSC 7
HI_DEMON	bdefs:def.hidem.text	MSC 7
HI_DEMON	hlc:mod.hidem.text	MSC 7
KEYBOARD	hlc:c.kybd.text	*MSC 7
KEYBOARD	bdefs:def.kybd.text	MSC 7
KEYBOARD	bdefs:def.kybd2.text	MSC 7
KEYBOARD	bdefs:def.keyasm.text	MSC 7
KEYBOARD	hlc:mod.kybd1.text	MSC 7
KEYBOARD	hlc:mod.kybd2.text	MSC 7
KEYBOARD	hlc:mod.kybd3.text	MSC 7
KEYCONVERSION	hlc:c.keycvt.text	*MSC 7
KEYCONVERSION	bdefs:def.keycvt.text	MSC 7
KEYCONVERSION	hlc:mod.keycvt.text	MSC 7
PRINTER_DRIVER	hlc:c.intprt.txt	*MSC 7
PRINTER_DRIVER	bdefs:def.intprt.txt	MSC 7
PRINTER_DRIVER	hlc:mod.intprt.txt	MSC 7
DAWN_EDITOR	twt:c.ed.text	*MSC 7
DAWN_EDITOR	bdefs:def.ed.text	MSC 7
DAWN_EDITOR	twt:editor.text	MSC 7
DAWN_EDITOR	twt:edutils.text	MSC 7
DAWN_EDITOR	twt:coreditor.text	MSC 7

(The following CREATE_BIN_FCS module is for completeness, and is NOT part

of the system.)

CREATE_BIN_FCS	kmf:createbin.text	*MSC 19
CREATE_BIN_FCS	kmf:createfcs.text	MSC 19
CREATE_BIN_FCS	kmf:cbin.tbl.text	ASC 19
AP_PARSER_COMPILER_MODULE	rrr:c.ap.rom.text	*MSC 20
AP_PARSER_COMPILER_MODULE	optdefs:def.apcon.text	MSC 20
AP_PARSER_COMPILER_MODULE	error:err.appar.text	MSC 20
AP_PARSER_COMPILER_MODULE	rrr:ap.rom.text	MSC 20
AP_PARSER_COMPILER_MODULE	rrr:ap.con.text	MSC 20
AP_PARSER_COMPILER_MODULE	rrr:ap.parser.text	MSC 20
AP_PARSER_COMPILER_MODULE	rrr:ap.apply.text	MSC 20
AP_PARSER_COMPILER_MODULE	rrr:ap.comp.text	MSC 20
ALLOC	rrr:c.alloc.text	*MSC 20
ALLOC	optdefs:def.alloc.text	MSC 20
ALLOC	error:err.alloc.text	MSC 20
ALLOC	rrr:alloc.text	MSC 20
ALLOC	rrr:alloc.data.text	MSC 20
SYSTEM_STRING_SCANNER_MODULE	rrr:c.ssscanner.text	*MSC 20
SYSTEM_STRING_SCANNER_MODULE	optdefs:def.ssscanner.text	MSC 20
SYSTEM_STRING_SCANNER_MODULE	error:err.scan.text	MSC 20
SYSTEM_STRING_SCANNER_MODULE	error:err.parser.text	MSC 20
SYSTEM_STRING_SCANNER_MODULE	rrr:par.scan.text	MSC 20
SYSTEM_STRING_SCANNER_MODULE	rrr:ssscan.text	MSC 20
SIGNAL	dml:c.signal.text	*MSC 20
SIGNAL	optdefs:def.signal.text	MSC 20
SIGNAL	error:err.signal.text	MSC 20
SIGNAL	dml:signal.text	MSC 20
AP_LEXICAL_FUNCTIONS	gls:ap.lex.dvr.text	*MSC 20
AP_LEXICAL_FUNCTIONS	optdefs:def.ap.lex.text	MSC 20
AP_LEXICAL_FUNCTIONS	optdefs:def.foreign.text	MSC 20
AP_LEXICAL_FUNCTIONS	gls:ap.lex.imp.text	MSC 20
SORT_REORDER_MODULE	gls:sort.dvr.text	*MSC 20
SORT_REORDER_MODULE	optdefs:def.sort.text	MSC 20
SORT_REORDER_MODULE	gls:sort1.imp.text	MSC 20
SORT_REORDER_MODULE	gls:sort2.imp.text	MSC 20
SORT_REORDER_MODULE	gls:sort3.imp.text	MSC 20
AP_STRUCTURED_STATEMENTS	rrr:c.apstr.text	*MSC 20
AP_STRUCTURED_STATEMENTS	optdefs:def.apstr.text	MSC 20
AP_STRUCTURED_STATEMENTS	error:err.apstr.text	MSC 20
AP_STRUCTURED_STATEMENTS	rrr:ap.struct.text	MSC 20
AP_STRUCTURED_STATEMENTS	rrr:indent.text	MSC 20
DELSUB	rrr:c.delsub.text	*MSC 20
DELSUB	optdefs:def.delsub.text	MSC 20
DELSUB	rrr:delsub.text	MSC 20
APRTC	rrr:c.aprtc.text	*MSC 20
APRTC	optdefs:def.aprtc.text	MSC 20
APRTC	error:err.aprtc.text	MSC 20

APRTC	rrr:ap.rtc.text	MSC 20
AL	twt:c.allc.text	*MSC 20
ALLC	optdefs:def.allc.text	MSC 20
ALLC	twt:allc.text	MSC 20
APCOMP	dml:c.apcomp.text	*MSC 20
APCOMP	optdefs:def.apcomp.text	MSC 20
APCOMP	dml:apcomp.text	MSC 20
SC	twt:c.sc.text	*MSC 20
SC	optdefs:def.sc.text	MSC 20
SC	twt:sc.text	MSC 20
SFKOR	twt:c.sfkor.text	*MSC 20
SFKOR	optdefs:def.sfkor.text	MSC 20
SFKOR	twt:sfkor.text	MSC 20
MULTIPLE_PARTITIONS	kmf:c.part_m.text	*MSC 20
MULTIPLE_PARTITIONS	optdefs:def.part_m.text	MSC 20
MULTIPLE_PARTITIONS	optdefs:def.ap_asmb.text	MSC 20
MULTIPLE_PARTITIONS	errors:err.dw.text	MSC 20
MULTIPLE_PARTITIONS	kmf:mod.part_m.text	MSC 20
MULTIPLE_PARTITIONS	kmf:mod.partm2.text	MSC 20
BASIC_MULT_PARTS	rrr:c.part_b.text	*MSC 20
BASIC_MULT_PARTS	optdefs:def.part_b.text	MSC 20
BASIC_MULT_PARTS	error:err.drpart.text	MSC 20
BASIC_MULT_PARTS	error:err.dw.text	MSC 20
BASIC_MULT_PARTS	rrr:mod.part_b.text	MSC 20
BASIC_MULT_PARTS	rrr:onevent.text	MSC 20
PART_CODEGEN	rrr:c.part_c.text	*MSC 20
PART_CODEGEN	optdefs:def.part_c.text	MSC 20
PART_CODEGEN	rrr:mod.part_c.text	MSC 20
PART_CODEGEN	rrr:onevent_cg.text	MSC 20
APEXP	twt:c.apexp.text	*MSC 20
APEXP	optdefs:def.apexp.text	MSC 20
APEXP	twt:apexp.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:c.ap_mm.text	*MSC 20
AP_ROM_MM_SUPPORT	optdefs:def.ap_mm.text	MSC 20
AP_ROM_MM_SUPPORT	optdefs:def.apm_cg.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:ap_gen.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:get.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:save.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:ap_mm_util.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:freespace.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:createprog.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:catprog.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:searchdir.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:re.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:loadsub.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:storesub.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:storebin.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:storekey.text	MSC 20

AP_ROM_MM_SUPPORT	kmf:compfs.text	MSC 20
O		
MATRIX_COMPILER_MODULE	gls:matrom.dvr.text	*MSC 20
MATRIX_COMPILER_MODULE	optdefs:def.matrom.text	MSC 20
MATRIX_COMPILER_MODULE	gls:matrom.imp.text	MSC 20
MAT_ROM_CODEGEN	gls:matgen.dvr.text	*MSC 20
MAT_ROM_CODEGEN	optdefs:def.matgen.text	MSC 20
MAT_ROM_CODEGEN	gls:matgn0.imp.text	MSC 20
MAT_ROM_CODEGEN	gls:matgn1.imp.text	MSC 20
MAT_ROM_CODEGEN	gls:matgn2.imp.text	MSC 20
MATRIX_INVERSE	gls:matinv.dvr.text	*MSC 20
MATRIX_INVERSE	optdefs:def.matinv.text	MSC 20
MATRIX_INVERSE	optdefs:def.getstk.text	MSC 20
MATRIX_INVERSE	gls:matinv.imp.text	MSC 20
MATRIX_FUNCTIONS	gls:matfns.dvr.text	*MSC 20
MATRIX_FUNCTIONS	optdefs:def.matfns.text	MSC 20
MATRIX_FUNCTIONS	gls:matfns.imp.text	MSC 20
MATRIX_OPERATIONS	gls:matops.dvr.text	*MSC 20
MATRIX_OPERATIONS	optdefs:def.matops.text	MSC 20
MATRIX_OPERATIONS	gls:matops.imp.text	MSC 20
O		
SYSTEM_ST_MODULE	gls:sys_st.dvr.text	*MSC 20
SYSTEM_ST_MODULE	optdefs:def.sys_st.text	MSC 20
SYSTEM_ST_MODULE	gls:sys_st.imp.text	MSC 20
HIOPT	hlc:c.hiopt.text	*MSC 20
HIOPT	optdefs:def.hiopt.text	MSC 20
HIOPT	hlc:mod.hiopt.text	MSC 20
HIOPT	hlc:optprint.text	MSC 20
HIOPT	hlc:optwindo.text	MSC 20
MASS_MEM_OPTION	kmf:c.mmopt.text	*MSC 21
MASS_MEM_OPTION	optdefs:def.mmopt.text	MSC 21
MASS_MEM_OPTION	errors:err.mmm.text	MSC 21
MASS_MEM_OPTION	kmf:optgen.text	MSC 21
MASS_MEM_OPTION	kmf:pathbldr.text	MSC 21
MASS_MEM_OPTION	kmf:protect.text	MSC 21
MASS_MEM_OPTION	kmf:labels.text	MSC 21
MASS_MEM_OPTION	kmf:msrom_msus.text	MSC 21
LIF_ASCII_SUPPORT	kmf:c.ascii.text	*MSC 21
LIF_ASCII_SUPPORT	kmf:ascii.text	MSC 21
BCD_DATA_FILES	kmf:c.bcd.text	*MSC 21
O		
BCD_DATA_FILES	errors:err.mmm.text	MSC 21
BCD_DATA_FILES	kmf:bdefs:def.bcddat.text	MSC 21
BCD_DATA_FILES	kmf:bcd.util.text	MSC 21
BCD_DATA_FILES	kmf:bcdnums.text	MSC 21

BCD_DATA_FILES	kmf:bcdstr.text	MSC 21
BD ⁰ _JUMP_TABLE	kmf:bdat.text	*MSC 21
BDAT_JUMP_TABLE	kmf:bdat2.text	MSC 21
MM_PARSER_MODULE	rrr:c.mm.com.text	*MSC 21
MM_PARSER_MODULE	optdefs:def.mmpar.text	MSC 21
MM_PARSER_MODULE	error:err.mmpar.text	MSC 21
MM_PARSER_MODULE	rrr:mm.com.text	MSC 21
MM_PARSER_MODULE	rrr:mm.con.text	MSC 21
MM_PARSER_MODULE	rrr:mm.parser.text	MSC 21

B. FOCUS ASSEMBLER Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
MSUS_PARSER_INIT	kmf:msus.tbl.text	*ASC	3
EMIT	twt:equ.asm.text	ASC	4
EMIT	twt:emit.hw.text	*ASC	4
EMIT	twt:emit.em.text	*ASC	4
EMIT	twt:emit.text	ASC	4
PTABLES	rrr:ptables.text	*ASC	5
PTABLES	rrr:lex.text	ASC	5
PTABLES	rrr:keys.text	ASC	5
PTABLES	rrr:mantab.text	ASC	5
PTABLES	rrr:exptab.text	ASC	5
PTABLES	bdefs:def.ptab.text	MSC	5
(def file contains the definitions for other modules to use, but it is not included in the assembly process)			
PTABLES	EXPGRAM.DICK.DAWN	3000	5
PTABLES	MAINGRAM.DICK.DAWN	3000	5
PTABLES	rrr:keysource.text	TXT	5
PTABLES	rrr:lex.source.text	TXT	5
(above four are the original source for exptab, mantab, keys, and lex; they are not assembled directly)			
LEXICAL_FUNCTIONS	gls:vl.table.text	*ASC	5
SINGLE_MATH_FUNCTIONS	gls:trunk.text	*ASC	5
TRACE_ASMB_PROCS	rrr:tr.asmb.text	*ASC	6
TRACE_ASMB_PROCS	bdefs:def.trasmb.text	MSC	6
(def file contains the definitions for other modules to use, but it is not included in the assembly process)			
ERROR_HANDLER	twt:err.text	----	6
(Source made by running twt:ge.ch.code)			
ERROR_HANDLER	twt:ostran.text	ASC	6
ASMB_PROCS	dml:asmb1.text	*ASC	6
ASMB_PROCS	dml:q.asmb1.asm	ASC	6
(q.asmb1.asm is produced by running the equate generator (equate.code) with the driver file dml:q.asmb1.text)			
ASMB_PROCS	bdefs:def.asmb1.text	MSC	---
(this def file is not actually used in producing the link file from the assembly language source, but serves as the specification for callers of procedures in link file asmb1)			
ASMB_PROCS	dml:q.asmb1.text	*MSC	6
(this driver file is run through the equate generator (equate.code) to produce dml:q.asmb1.asm which in turn is included by dml:asmb1.text)			
ASMB_PROCS	dml:asmb2.text	*ASC	6
ASMB_PROCS	dml:q.asmb2.asm	ASC	6
(q.asmb2.asm is produced by running the equate generator			

```

(equate.code) with the driver file dml:q.asmb2.text )
ASMB_PROCS          dml:asmb2.1.text          ASC 6
ASMB_PROCS          dml:asmb2.2.text          ASC 6
ASMB_PROCS          dml:asmb2.3.text          ASC 6
ASMB_PROCS          dml:def.asmb2.text        MSC --
    ( this def file is not actually used in producing the line file
      from the assembly language source, but serves as the specification
      for callers of procedures in link file asmb2 )
ASMB_PROCS          dml:q.asmb2.text          *MSC 6
    ( this driver file is run through the equate generator
      (equate.code) to produce dml:q.asmb2.asm which in turn is
      included by dml:asmb2.text )

CRT                  hlc:mod.crtasm.text      ASC 7

KEYBOARD            hlc:c.keyasm.text        *ASC 7
KEYBOARD            hlc:hdw.keyasm.text      ASC 7
KEYBOARD            hlc:hdw.keytbl.text      ASC 7
KEYBOARD            hlc:hdw.keyequ.text      ASC 7

AP_PARSER_TABLES   rrr:ap.tables.text       *ASC 20
AP_PARSER_TABLES   rrr:ap.tab.text          ASC 20
AP_PARSER_TABLES   rrr:ap.keys.text         ASC 20
AP_PARSER_TABLES   optdefs:def.aptab.text   MSC 20
    ( def file contains the definitions for other modules to use, but
      it is not included in the assembly process )
AP_PARSER_TABLES   APROGRAM.DICK.DAWN       3000 20
AP_PARSER_TABLES   rrr:ap.keysource.text    TXT 20
    ( above two are the original source for ap.tab and ap.keys,
      they are not assembled directly )

SFKOR               twt:expan.text           ---- 20
                   (Source made by running
SFKOR               twt:gensfk.ch.code)

AP_ASMB             kmf:ap_asmb.text         ASC 20

AP_LEXICAL_FUNCTIONS gls:foreign.text       *ASC 20

MATRIX_INVERSE     gls:getstk.text          *ASC 20

MM_PARSER_TABLES   rrr:mm.tables.text       *ASC 21
MM_PARSER_TABLES   rrr:mm.tab.text          ASC 21
MM_PARSER_TABLES   rrr:mm.keys.text         ASC 21
MM_PARSER_TABLES   optdefs:def.mmtab.text   MSC 21
    ( def file contains the definitions for other modules to use, but
      it is not included in the assembly process )
MM_PARSER_TABLES   MMGRAM.DICK.DAWN         3000 21
MM_PARSER_TABLES   rrr:mm.keysource.text    TXT 21
    ( above two are the original source for mm.tab and mm.keys,
      they are not assembled directly )

BCD_CONVERT        kmf:bcd_convert.text     ASC 21

ERRORS_ENG         twt:longerr.text         ---- 25
                   (Source made by running
                   twt:ge.ch2.code)

```


7. Link Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
BASIC_FILE_MGR	bl-:mm.mgr.link	LINK	3
READ_PRINT_NUM_SUPPORT	bl-:rpnum.link	LINK	3
MM_UTILITIES	bl-:mmutil.link	LINK	3
MASS_MEM	bl-:mmsys.link	LINK	3
PROG_IO	bl-:progio.link	LINK	3
DATA_FILE_TYPE	bl-:data.link	LINK	3
IO_PROCS	bl-:iojump.link	LINK	3
MSUS_PARSER_INIT	bl-:msus.tbl.link	LINK	3
COMPILE_LINE	bl-:compline.link	LINK	4
COMPILER	bl-:computil.link	LINK	4
FOCUS_INSTRUCTIONS	bl-:focus.link	LINK	4
COMPSTMT	bl-:stmt.link	LINK	4
EX	bl-:exp.link	LINK	4
EMIT	bl-:emit.hw.link	LINK	4
STRUCTURED_STATEMENTS	bl-:struct.link	LINK	4
RTC	bl-:rtc.link	LINK	4
PASS1	bl-:pass1.link	LINK	4
PASS2	bl-:pass2.link	LINK	4
MMM_COMPILER	bl-:io.codgen.link	LINK	4
BCOMP	bl-:bc.link	LINK	4
SIMPLE_MATH_FUNCTIONS	bl-:smath.link	LINK	4
SCANNER_MODULE	bl-:scan.link	LINK	5
PARSERS	bl-:parser.link	LINK	5
PTABLES	bl-:ptables.link	LINK	5
SYMBOL_TABLE_MODULE	bl-:smtb.link	LINK	5
SMTB_STK	opt-:smtb.stk.link	LINK	5

(The above module is not part of the released system. It is a special module that the stackdepth programs use instead of

SYMBOL_TABLE_MODULE. It removes some recursion problems from
the stackdepth printouts.)

LISTER	bl-:list.link	LINK 5
CONTEXT_CHAIN_SUPPORT	bl-:chain.link	LINK 5
BASIC_CNTXT_MGR	bl-:cntxt.link	LINK 5
STRING_FUNCTIONS	bl-:strfns.link	LINK 5
LEXICAL_FUNCTIONS	bl-:lex.link	LINK 5
LEXICAL_FUNCTIONS	bl-:ul.table.link	LINK 5
SIMPLE_MATH_FUNCTIONS	bl-:trunk.link	LINK 5
MATH	bl-:math.link	LINK 5
BASIC_EXECUTIVE	bl-:em.link	LINK 6
OPTIDN_INTERFACE	bl-:opint.link	LINK 6
BASIC_WAIT	bl-:wait.link	LINK 6
TRACE_ASMB_PROCS	bl-:tr.asmb.link	LINK 6
INPUT_HANDLER	bl-:input.link	LINK 6
ICODE_MODULE	bl-:icode.link	LINK 6
MISC_IO_COMP_SUPPORT	bl-:misc.link	LINK 6
TRACE_MODULE	bl-:trace.link	LINK 6
ERROR_HANDLER	bl-:eh.link	LINK 6
ERROR_HANDLER	bl-:err.link	LINK 6
ERROR_HANDLER	bl-:oserr.link	LINK 6
ASMB_PROCS	bl-:asmb1.link	LINK 6
ASMB_PROCS	bl-:asmb2.link	LINK 6
COM	bl-:com.link	LINK 6
ON	bl-:on.link	LINK 6
PRERUN	bl-:prerun.link	LINK 6
	(some of the procedures in this link file are in segment 4 instead of segment 6)	
BASIC_RUN	bl-:rm.link	LINK 6
RUN_PROCESS	bl-:rp.link	LINK 6
SOLC_TRAP	bl-:solc.link	LINK 6
THROW	bl-:throw.link	LINK 6

THROW_STK	opt-:throw.stk.link	LINK 6
<p>The above module is not part of the released system. It is a special module that the stackdepth programs use instead of THROW. It removes some recursion problems from the stackdepth printouts.)</p>		
BASMSG	bl-:basmsg.link	LINK 6
CRT	bl-:crt.link	LINK 7
SFKMF	bl-:sfkmf.link	LINK 7
BASIC_HUMAN_INTERFACE	bl-:hi.link	LINK 7
KEYBOARD	bl-:kybd.link	LINK 7
DAWN_EDITOR	bl-:ed.link	LINK 7
CREATE_BIN_FCS	opt-:cbinfcs.link	LINK 19
AP_PARSER_COMPILER_MODULE	opt-:ap.com.link	LINK 20
AP_PARSER_TABLES	opt-:ap.tables.link	LINK 20
ALLOC	opt-:alloc.link	LINK 20
SYSTEM_STRING_SCANNER_MODULE	opt-:ssscan.link	LINK 20
SIGNAL	opt-:signal.link	LINK 20
AP_LEXICAL_FUNCTIONS	opt-:ap.lex.link	LINK 20
AP_LEXICAL_FUNCTIONS	opt-:foreign.link	LINK 20
SORT_REORDER_MODULE	opt-:sert.link	LINK 20
AP_STRUCTURED_STATEMENTS	opt-:apstr.link	LINK 20
DELSUB	opt-:delsub.link	LINK 20
APRTC	opt-:aprtc.link	LINK 20
ALLC	opt-:allc.link	LINK 20
APCOMP	opt-:apcomp.link	LINK 20
SC	opt-:sc.link	LINK 20
SFKOR	opt-:sfkor.link	LINK 20
SFKOR	opt-:expan.link	LINK 20
MULTIPLE_PARTITIONS	opt-:part_m.link	LINK 20
BASIC_MULT_PARTS	opt-:part_b.link	LINK 20
PART_CODEGEN	opt-:part_c.link	LINK 20

AP_ASMB	opt-:ap_asmb.link	LINK 20
AP_	opt-:apexp.link	LINK 20
AP_ROM_MM_SUPPORT	opt-:ap_mm.link	LINK 20
MATRIX_COMPILER_MODULE	opt-:matrom.link	LINK 20
MAT_ROM_CODEGEN	opt-:matgen.link	LINK 20
MATRIX_INVERSE	opt-:matinv.link	LINK 20
MATRIX_FUNCTIONS	opt-:matfns.link	LINK 20
MATRIX_OPERATIONS	opt-:matops.link	LINK 20
SYSTEM_ST_MODULE	opt-:sys_st.link	LINK 20
HIOPT	opt-:hiept.link	LINK 20
MATRIX_INVERSE	opt-:getstk.link	LINK 20
MASS_MEM_OPTION	opt-:mmoption.link	LINK 21
LIF_ASCII_SUPPORT	opt-:ascii.link	LINK 21
BCD_DATA_FILES	opt-:bcd.link	LINK 21
BI_ JUMP_TABLE	opt-:bdat.link	LINK 21
MM_PARSER_MODULE	opt-:mm_rom.link	LINK 21
MM_PARSER_TABLES	opt-:mm_tables.link	LINK 21
BCD_CONVERT	opt-:bcdconvrt.link	LINK 21
ERRORS_ENG	bl-:lerr.link	LINK 25

Special Test Tools:

A. Special Test MODCAL Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
WHET	dml:whet.text	*MSC	24
THWY_FCS_MODULE	dml:c.thwy_fcs.text	*MSC	32
THWY_FCS_MODULE	dml:thwy_fcs.text	MSC	32

B. Special Test FOCUS ASSEMBLER Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
WHET	dml:whetseghd.text	*ASC	32

C. Special Test LINK Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
WHET	dml:whet.link	LINK	24
THWY_FCS_MODULE	dml:thwy_fcs.link	LINK	32

9a. GAR Modules/Files

GAR_KMF	gar:gar.mmm.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Karl Freund's code)		
GAR_HLC	gar:gar.hlc.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Harvey Clawson's code)		
TWT_STACK_GUARANTEE	gar:gar.twt.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Tim Tillson's code)		
DML_GUARANTEE_CONSTANTS	gar:gar.dml.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Dave Landers's code)		
DR_GUARANTEES	gar:gar.dr.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Dick Rupp's code)		
GAR_GLS	gar:gar.gls.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Gerrie Shults' code)		

9b. Special DEF file Notes

BGLOB	bdefs:def.bglob.text	MSC ---
(BASIC global data structure definitions only; no code)		
ICODE_CONSTANTS	bdefs:def.icode.text	MSC ---
(Intermediate code constants only; no code)		
MESSAGES	bdefs:def.msgs.text	MSC ---
(data structure declarations only; no code)		
EP_MESSAGES	bdefs:def.ep_msg.text	MSC ---
(data structure declarations only; no code)		
RP_MESSAGES	bdefs:def.rp_msg.text	MSC ---
(data structure declarations only; no code)		

BASIC SOFTWARE DOCUMENTATION INDEX

CONTENTS

0. Software Documentation Index
1. External Reference Specification (ERS)
2. Internal Reference Specification (IRS)
3. Module Interface Specifications (MIS)
4. Maintenance Guide
5. Stream/Linker Command Files
6. Source Files
7. Link Files
8. Special Test Tools
9. GAR Modules/Files and Special DEF file notes

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disk (Part #S-97050-90310-1)

0. Software Documentation Index
 - A. *LISTER file: ers:ba.dx.lst
 - B. TEXT file: ers:ba.dx
 ers:ba.dx.6a
 ers:ba.dx.6b
 ers:ba.dx.7
 ers:ba.dx.8
 ers:ba.dx.9

1. External Reference Specification (ERS)

The ERS for Basic is the Basic Language Reference Manual.

2. Internal Reference Specification (IRS)

- A. *LISTER file:

HLC:KYBD.IRS.LST

- B. TEXT files:

HLC:KYBD.IRS.TEXT

3. Module Interface Specifications (MIS)

All files are on volume MIS:, unless otherwise noted.

READ_PRINT_NUM_SUPPORT
MIS.RPNUM.TEXT

MM_UTILITIES
MIS.MMUTIL.TEXT

MASS_MEM
MIS.MMSYS.TEXT

BASIC_FILE_MGR
MIS.MMMGR.TEXT

PROGIO
MIS.PROGIO.TEXT

IO_PROCS
MIS.IOJUMP.TEXT

MMM_COMPILER
MIS.MMCOMP.TEXT

MASS_MEMORY_OPTION
MIS.MMOPT.TEXT

AP_ROM_MM_SUPPORT
MIS.APM.TEXT

DAWN MASS MEMORY OVERVIEW
MM.OVRVIEW.TEXT

DAWN DATA FILE TYPES
ERS.FILES.TEXT

ERROR HANDLER
TWT:MIS.EH.TEXT

EXPRESSION CODE GENERATOR
TWT:MIS.EXP.TEXT

SPECIAL FUNCTION KEY MODULE
TWT:MIS.SFK.TEXT

BASIC EDITOR
TWT:MIS.EDIT.LST
TWT:MIS.EDIT.1.TEXT
TWT:MIS.EDIT.2.TEXT
TWT:MIS.EDIT.3.TEXT

MATH MIS
TWT:MIS.MATH.TEXT

SEPERATE COMPILER MIS
TWT:MIS.SC.TEXT

OPTION ROM FUNCTION INTERFACE MIS
TWT:MIS.EXP.TEXT

RUN MODULE MIS
MIS.RM.TEXT

COMPILER MODULE MIS
MIS.COMP.TEXT

EXECUTIVE MODULE MIS
MIS.EM.TEXT

HUMAN INTERFACE OPTION

HLC:HIOPT.MIS.LST
HLC:HIOPT.MIS.TEXT

HUMAN INTERFACE

HLC:HI.MIS.LST
HLC:HI.MIS.TEXT

KEYCODE CONVERSION

HLC:KYCNV.T.MIS.LST
HLC:KYCNV.T.MIS.TEXT

BASIC HUMAN INTERFACE

HLC:BHI.MIS.LST
HLC:BHI.MIS.TEXT

HUMAN INTERFACE DEMON

HLC:HIDEM.MIS.LST
HLC:HIDEM.MIS.TEXT

CRT

HLC:CRT.MIS.LST
HLC:CRT.MIS.1.TEXT
HLC:CRT.MIS.2.TEXT

INTERNAL PRINTER DRIVER

HLC:INTPRT.MIS.LST
HLC:INTPRT.MIS.TEXT

KEYBOARD

HLC:KYBD.MIS.LST
HLC:KYBD.MIS.1.TEXT
HLC:KYBD.MIS.2.TEXT

SCANNER MIS

MIS.SCAN.LST
MIS.SCAN1.TEXT
DEF.SCAN.TEXT
DEF.SSSCAN.TEXT
MIS.SCAN3.TEXT
MIS.SCAN4.TEXT

HOW TO MAKE KEYWORD TABLES FOR DAWN BASIC

KEYWORDS.LST
KEYWORDS.TEXT

PARSER MIS

MIS.PARSER.LST
MIS.PAR1.TEXT
DEF.PARSER.TEXT
MIS.PAR3.TEXT

SYMBOL TABLE MIS and IRS

MIS.SMTB.LST
MIS.SMTB1.TEXT
DEF.SMTB.TEXT
MIS.SMTB3.TEXT

MIS.SMTB4.TEXT

LISTER MIS and IRS

MIS.LIST.LST
MIS.LIST1.TEXT
DEF.LIST.TEXT
MIS.LIST3.TEXT

ICODE MODULE MIS

MIS.ICODE.LST
MIS.ICODE1.TEXT
DEF.ICODE.TEXT
MIS.ICODE3.TEXT
MIS.ICODE4.TEXT
MIS.ICODE5.TEXT

PROGRAM CHAIN and INTERMEDIATE CODE DESCRIPTION

P.CHAIN.LST
P.CHAIN1.TEXT
P.CHAIN1.5.TEXT
P.CHAIN2.TEXT
P.CHAIN2.5.TEXT
P.CHAIN3.TEXT

GENERIC PARSER TABLE MIS

MIS.PTAB.LST
MIS.PTAB1.TEXT
DEF.PTAB.TEXT
DEF.APTAB.TEXT
DEF.MMTAB.TEXT
DEF.IOTAB.TEXT
MIS.PTAB3.TEXT

INPUT MODULE IRS/MIS

MIS.INPUT.LST
MIS.INPUT1.TEXT
MIS.INPUT2.TEXT
MIS.INPUT3.TEXT
DEF.INPUT.TEXT
MIS.INPUT5.TEXT

TRACE OVERVIEW AND MIS

MIS.TRACE.LST
MIS.TRACE1.TEXT
DEF.TRACE.TEXT
DEF.TRASMB.TEXT
MIS.TRACE3.TEXT

MISC MODULE MIS

MIS.MISC.LST
MIS.MISC1.TEXT
DEF.MISC.TEXT
MIS.MISC3.TEXT

CONTEXT MANAGER MIS

MIS.CNTXT.LST
MIS.CNTXT1.TEXT

DEF.CNTXT.TEXT
MIS.CNTXT3.TEXT

CHAIN MODULE MIS
MIS.CHAIN.LST
MIS.CHAIN1.TEXT
DEF.CHAIN.TEXT
MIS.CHAIN3.TEXT

STRUCTURED STATEMENT MODULE MIS
MIS.STR.LST
MIS.STR1.TEXT
DEF.STRUCT.TEXT
MIS.STR3.TEXT

AP ROM STRUCTURED STATEMENT MIS
MIS.APSTR.LST
MIS.APSTR1.TEXT
DEF.APSTR.TEXT
MIS.APSTR3.TEXT

REAL TIME CLOCK MIS
MIS.RTC.LST
MIS.RTC1.TEXT
DEF.OSRTC.TEXT
DEF.RTC.TEXT
DEF.APRTC.TEXT
MIS.RTC3.TEXT

OPTION INTERFACE UNIT MIS
MIS.OPINT.LST
MIS.OPINT1.TEXT
DEF.OPINT.TEXT
DEF.OPINT2.TEXT
MIS.OPINT3.TEXT

ALLOCATE MODULE MIS and IRS
MIS.ALOC.LST
MIS.ALOC1.TEXT
DEF.ALLOC.TEXT
MIS.ALOC3.TEXT

DELSUB MODULE MIS and IRS
MIS.DSUB.LST
MIS.DSUB1.TEXT
DEF.DELSUB.TEXT
MIS.DSUB3.TEXT

BASIC LEVEL PARTITION and EVENT INTERFACE MIS
MIS.PART.LST
MIS.PART1.TEXT
DEF.PART_C.TEXT
DEF.PART_B.TEXT
MIS.PART3.TEXT

Maintenance Guide

- A. *LISTER file: ers:ba.maint.lst
- B. TEXT files: ers:ba.maint.1.text
 ers:ba.maint.2.text

5. Stream Files

- A. Linker Command Files:
 - 1. blink: linkcom.d - Basic D# linker command file
 - 2. bl-: linkcom.d - Basic D- linker command file
- B. Compiler Stream Files
 - 1. system: comp.#.ba.text
 - 2. system: comp.-.ba.text
 - 3. system: comp.1.ba.text

The following tables list each source, link, or stream file archived for the xxxxx Product. The table is a fixed format as follows:

- Col 1-40 - Module name
- Col 41-67 - File name
- Col 68-71 - File type code:
 - MSC (Modcal Source)
 - ASC (Focus Assembler Source)
 - LINK (Link file)
 - * in column 68 indicates the file which "drives" the compile or assembly process
- Col 73-74 - Target Segment

Source Files

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
READ_PRINT_NUM_SUPPORT	kmf:c.rpnum.text	*MSC	3
READ_PRINT_NUM_SUPPORT	bdefs:def.rpnum.text	MSC	3
READ_PRINT_NUM_SUPPORT	errors:err.mmm.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:rp.util1.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:typ.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:array_io.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:onend.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:setup.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:close.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:assign.text	MSC	3
READ_PRINT_NUM_SUPPORT	kmf:chkread.text	MSC	3
MM_UTILITIES	kmf:c.mmutil.text	*MSC	3
MM_UTILITIES	bdefs:def.mmutil.text	MSC	3
MM_UTILITIES	errors:err.mmm.text	MSC	3
MM_UTILITIES	kmf:recursive.text	MSC	3
MM_UTILITIES	kmf:mm.util1.text	MSC	3
MM_UTILITIES	kmf:returncode.text	MSC	3
MM_UTILITIES	kmf:pathfinder.text	MSC	3
BASIC_FILE_MGR	kmf:c.mm.mgr.text	*MSC	3
BASIC_FILE_MGR	bdefs:def.mm.mgr.text	MSC	3
BASIC_FILE_MGR	errors:err.mmm.text	MSC	3
BASIC_FILE_MGR	kmf:file_utils.text	MSC	3
BASIC_FILE_MGR	kmf:initvol.text	MSC	3
BASIC_FILE_MGR	kmf:newcat.text	MSC	3
BASIC_FILE_MGR	kmf:setmsi.text	MSC	3
BASIC_FILE_MGR	kmf:create.text	MSC	3
MASS_MEM	kmf:c.mmsys.text	*MSC	3
MASS_MEM	bdefs:def.mmsys.text	MSC	3
MASS_MEM	errors:err.mmm.text	MSC	3
MASS_MEM	kmf:subexit.text	MSC	3
MASS_MEM	kmf:sysutil.text	MSC	3
PROG_IO	kmf:c.progio.text	*MSC	3
PROG_IO	bdefs:def.progio.text	MSC	3
PROG_IO	errors:err.mmm.text	MSC	3
PROG_IO	kmf:prog.util.text	MSC	3
PROG_IO	kmf:lister.text	MSC	3
PROG_IO	kmf:store.text	MSC	3
PROG_IO	kmf:newload.text	MSC	3
PROG_IO	kmf:loadbin.text	MSC	3
PROG_IO	kmf:loadkey.text	MSC	3
DATA_FILE_TYPE	kmf:c.data.text	*MSC	3
DATA_FILE_TYPE	errors:err.mmm.text	MSC	3
DATA_FILE_TYPE	kmf:dwn.util.text	MSC	3
DATA_FILE_TYPE	kmf:dwnnums.text	MSC	3
DATA_FILE_TYPE	kmf:dwnstr.text	MSC	3

PROCS

COMPILE_LINE
COMPILE_LINE
COMPILE_LINE
COMPILE_LINE
COMPILE_LINE
COMPILE_LINE

COMPILER
COMPILER
COMPILER
COMPILER
COMPILER
COMPILER

FOCUS_INSTRUCTIONS
FOCUS_INSTRUCTIONS
FOCUS_INSTRUCTIONS
FOCUS_INSTRUCTIONS
FOCUS_INSTRUCTIONS

COMPSTMT
COMPSTMT
COMPSTMT
COMPSTMT
COMPSTMT

EXP
EXP
EXP
EXP

EXP

STRUCTURED_STATEMENTS
STRUCTURED_STATEMENTS
STRUCTURED_STATEMENTS
STRUCTURED_STATEMENTS

RTC
RTC
RTC
RTC

PASS1
PASS1
PASS1
PASS1
PASS1
PASS1
PASS1

knf:c.iojump.text	*MSC	3
dml:c.compline.text	*MSC	4
bdefs:def.compl.text	MSC	4
error:err.compl.text	MSC	4
dml:compline1.text	MSC	4
dml:compline2.text	MSC	4
dml:rmcomp.text	MSC	4
dml:c.computil.text	*MSC	4
bdefs:def.comp.text	MSC	4
dml:def.comp2.text	MSC	4
error:err.comp.text	MSC	4
dml:computil.text	MSC	4
dml:lineutil.text	MSC	4
dml:c.focus.text	*MSC	4
bdefs:def.focus.text	MSC	4
dml:def.focus2.text	MSC	4
error:err.focus.text	MSC	4
dml:focus.text	MSC	4
dml:c.stmt.text	*MSC	4
bdefs:def.stmt.text	MSC	4
error:err.stmt.text	MSC	4
dml:stmt.text	MSC	4
dml:compfor.text	MSC	4
twf:c.exp.text	*MSC	4
bdefs:def.exp.text	MSC	4
bdefs:def.exp2.text	MSC	4
error:err.ttcomp.text	MSC	4
(Contains errors for all modules on twf: except MATH, EDITOR, SFKxx, ERROR_HANDLER)		
twf:exp.text	MSC	4
rrr:c.struct.text	*MSC	4
bdefs:def.struct.text	MSC	4
error:err.dr.text	MSC	4
rrr:struct.text	MSC	4
rrr:c.rtc.text	*MSC	4
bdefs:def.rtc.text	MSC	4
error:err.rtc.text	MSC	4
rrr:rtc.text	MSC	4
twf:c.pass1.text	*MSC	4
bdefs:def.pass1.text	MSC	4
twf:pi.text	MSC	4
twf:piutils.text	MSC	4
twf:param.text	MSC	4
twf:dosmtb.text	MSC	4
twf:partemp.text	MSC	4

PASS2	twf:c.pass2.text	*MSC	4
PASS2	bdefs:def.pass2.text	MSC	4
PASS2	twf:p2.text	MSC	4
PASS2	twf:p2glob.text	MSC	4
PASS2	twf:p2utils.text	MSC	4
PASS2	twf:calloptemp.text	MSC	4
PASS2	twf:ldarray.text	MSC	4
PASS2	twf:starray.text	MSC	4
MMM_COMPILER	kmf:c.mmmcomp.text	*MSC	4
MMM_COMPILER	bdefs:Def.mmmcomp.text	MSC	4
MMM_COMPILER	errors:err.mmm.text	MSC	4
MMM_COMPILER	kmf:ls_gen.text	MSC	4
MMM_COMPILER	kmf:io.codegen.text	MSC	4
MMM_COMPILER	kmf:codegen2.text	MSC	4
MMM_COMPILER	kmf:codegen3.text	MSC	4
MMM_COMPILER	kmf:loadgen.text	MSC	4
BCOMP	twf:c.bc.text	*MSC	4
BCOMP	bdefs:def.bc.text	MSC	4
BCOMP	twf:bcomp.text	MSC	4
SIMPLE_MATH_FUNCTIONS	gls:smath.dvr.text	*MSC	4
SIMPLE_MATH_FUNCTIONS	bdefs:def.smath.text	MSC	4
SIMPLE_MATH_FUNCTIONS	bdefs:def.trunc.text	MSC	4
SIMPLE_MATH_FUNCTIONS	gls:smath.imp.text	MSC	4
SCANNER_MODULE	rrr:c.scan.text	*MSC	5
SCANNER_MODULE	bdefs:def.scan.text	MSC	5
SCANNER_MODULE	error:err.scan.text	MSC	5
SCANNER_MODULE	rrr:scan1.text	MSC	5
SCANNER_MODULE	rrr:par.scan.text	MSC	5
SCANNER_MODULE	rrr:keymatch.text	MSC	5
SCANNER_MODULE	rrr:scan2.text	MSC	5
PARSERS	rrr:c.parser.text	*MSC	5
PARSERS	bdefs:def.parser.text	MSC	5
PARSERS	error:err.parser.text	MSC	5
PARSERS	rrr:parser1.text	MSC	5
PARSERS	rrr:mcon.text	MSC	5
PARSERS	rrr:econ.text	MSC	5
PARSERS	rrr:par.scan.text	MSC	5
PARSERS	rrr:parser2.text	MSC	5
PARSERS	rrr:parser3.text	MSC	5
SYMBOL_TABLE_MODULE	rrr:c.smtb.text	*MSC	5
SYMBOL_TABLE_MODULE	bdefs:def.smtb.text	MSC	5
SYMBOL_TABLE_MODULE	error:err.smtb.text	MSC	5
SYMBOL_TABLE_MODULE	rrr:smtb1.text	MSC	5
SYMBOL_TABLE_MODULE	rrr:smtb2.text	MSC	5
SMTB_STK	rrr:c.smtb.stk.text	*MSC	5
SMTB_STK	bdefs:def.smtb.text	MSC	5
SMTB_STK	error:err.smtb.text	MSC	5
SMTB_STK	rrr:smtb1.text	MSC	5
SMTB_STK	rrr:smtb2.text	MSC	5

(The above module is not part of the released system. It is a

special module that the stackdepth programs use instead of
 SYMBOL_TABLE_MODULE. It removes some recursion problems from
 the stackdepth printouts)

LISTER	rrr:c.list.text	*MSC 5
LISTER	bdefs:def.list.text	MSC 5
LISTER	rrr:list.text	MSC 5
CONTEXT_CHAIN_SUPPORT	rrr:c.chain.text	*MSC 5
CONTEXT_CHAIN_SUPPORT	bdefs:def.chain.text	MSC 5
CONTEXT_CHAIN_SUPPORT	error:err.dr.text	MSC 5
CONTEXT_CHAIN_SUPPORT	rrr:chain.text	MSC 5
BASIC_CNTXT_MGR	rrr:c.cntxt.text	*MSC 5
BASIC_CNTXT_MGR	bdefs:def.cntxt.text	MSC 5
BASIC_CNTXT_MGR	rrr:cntxt.text	MSC 5
STRING_FUNCTIONS	gls:strfns.dvr.text	*MSC 5
STRING_FUNCTIONS	bdefs:def.strfns.text	MSC 5
STRING_FUNCTIONS	gls:strfns.imp.text	MSC 5
LEXICAL_FUNCTIONS	gls:lex.dvr.text	*MSC 5
LEXICAL_FUNCTIONS	bdefs:def.lex.text	MSC 5
LEXICAL_FUNCTIONS	bdefs:def.lexasm.text	MSC 5
LEXICAL_FUNCTIONS	gls:lex.imp.text	MSC 5
MATH	twr:c.math.text	*MSC 5
MATH	bdefs:def.math.text	MSC 5
MATH	twr:def.hmath.text	MSC 5
MATH	error:err.math.text	MSC 5
MATH	twr:mod.math.text	MSC 5
BASIC_EXECUTIVE	dml:c.em.text	*MSC 6
BASIC_EXECUTIVE	bdefs:def.em.text	MSC 6
BASIC_EXECUTIVE	error:err.em.text	MSC 6
BASIC_EXECUTIVE	dml:em.util.text	MSC 6
BASIC_EXECUTIVE	dml:em.ed.text	MSC 6
BASIC_EXECUTIVE	dml:em.part.text	MSC 6
BASIC_EXECUTIVE	dml:em.se.text	MSC 6
BASIC_EXECUTIVE	dml:em.state.text	MSC 6
OPTION_INTERFACE	rrr:c.opint.text	*MSC 6
OPTION_INTERFACE	bdefs:def.opint.text	MSC 6
OPTION_INTERFACE	bdefs:def.opint2.text	MSC 6
OPTION_INTERFACE	error:err.opint.text	MSC 6
OPTION_INTERFACE	rrr:opint.text	MSC 6
BASIC_WAIT	dml:c.wait.text	*MSC 6
BASIC_WAIT	bdefs:def.wait.text	MSC 6
BASIC_WAIT	error:err.wait.text	MSC 6
BASIC_WAIT	dml:wait.text	MSC 6
INPUT_HANDLER	rrr:c.input.text	*MSC 6
INPUT_HANDLER	bdefs:def.input.text	MSC 6
INPUT_HANDLER	error:err.input.text	MSC 6
INPUT_HANDLER	rrr:input.hand.text	MSC 6
INPUT_HANDLER	rrr:input.code.text	MSC 6

ICODE_MODULE	rrr:c.icode.text	*MSC 6
ICODE_MODULE	bdefs:def.icode.text	MSC 6
ICODE_MODULE	error:err.icode.text	MSC 6
ICODE_MODULE	rrr:sm.init.text	MSC 6
ICODE_MODULE	rrr:icode0.text	MSC 6
ICODE_MODULE	rrr:icode1.text	MSC 6
ICODE_MODULE	rrr:icode2.text	MSC 6
ICODE_MODULE	rrr:icode3.text	MSC 6

MISC_IO_COMP_SUPPORT	rrr:c.misc.text	*MSC 6
MISC_IO_COMP_SUPPORT	bdefs:def.misc.text	MSC 6
MISC_IO_COMP_SUPPORT	error:err.dr.text	MSC 6
MISC_IO_COMP_SUPPORT	rrr:misc.text	MSC 6
MISC_IO_COMP_SUPPORT	rrr:comp.misc.text	MSC 6
MISC_IO_COMP_SUPPORT	rrr:list.code.text	MSC 6

TRACE_MODULE	rrr:c.trace.text	*MSC 6
TRACE_MODULE	bdefs:def.trace.text	MSC 6
TRACE_MODULE	error:err.dr.text	MSC 6
TRACE_MODULE	rrr:trace0.text	MSC 6
TRACE_MODULE	rrr:trace1.text	MSC 6
TRACE_MODULE	rrr:trace2.text	MSC 6

ERROR_HANDLER	twt:c.eh.text	*MSC 6
ERROR_HANDLER	bdefs:def.eh.text	MSC 6
ERROR_HANDLER	error:err.hi.text	MSC 6
	(Contains errors for ERROR_HANDLER, EDITOR and SFKxx)	
ERROR_HANDLER	twt:eh.text	MSC 6

COM	dml:c.com.text	*MSC 6
COM	bdefs:def.com1.text	MSC 6
COM	dml:def.com2.text	MSC 6
COM	error:err.com.text	MSC 6
COM	dml:com1.text	MSC 6
COM	dml:com2.text	MSC 6
COM	dml:com3.text	MSC 6

ON	dml:c.on.text	*MSC 6
ON	bdefs:def.on1.text	MSC 6
ON	dml:def.on2.text	MSC 6
ON	error:err.on.text	MSC 6
ON	dml:on.text	MSC 6

PRERUN	dml:c.prerun.text	*MSC 6
PRERUN	bdefs:def.prun1.text	MSC 6
PRERUN	dml:def.prun2.text	MSC 6
PRERUN	error:err.prerun.text	MSC 6
PRERUN	dml:prerun1.text	MSC 6
PRERUN	dml:prerun2.text	MSC 6
PRERUN	dml:prerun3.text	MSC 6

(note - some of the procedures in PRERUN are linked into segment 4 instead of segment 6)

BASIC_RUN	dml:c.rm.text	*MSC 6
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BASIC_RUN	bdefs: def.rm1.text	MSC 6
BASIC_RUN	dml: def.rm2.text	MSC 6
BASIC_RUN	error: err.rm.text	MSC 6
BASIC_RUN	dml: rm1.text	MSC 6
BASIC_RUN	dml: rm2.text	MSC 6

RUN_PROCESS	dml: c.rp.text	*MSC 6
RUN_PROCESS	bdefs: def.rp.text	MSC 6
RUN_PROCESS	dml: def.rp2.text	MSC 6
RUN_PROCESS	error: err.rp.text	MSC 6
RUN_PROCESS	dml: rp.text	MSC 6
RUN_PROCESS	dml: primal1.1.text	MSC 6
RUN_PROCESS	dml: primal1.2.text	MSC 6
RUN_PROCESS	dml: primal2.text	MSC 6

SOLC_TRAP	dml: c.solc.text	*MSC 6
SOLC_TRAP	bdefs: def.solc1.text	MSC 6
SOLC_TRAP	bdefs: def.solc2.text	MSC 6
SOLC_TRAP	bdefs: def.solc3.text	MSC 6
SOLC_TRAP	dml: solc.text	MSC 6

THROW	dml: c.throw.text	*MSC 6
THROW	bdefs: def.throw.text	MSC 6
THROW	dml: throw.text	MSC 6
THROW	dml: busy.text	MSC 6

THROW_STK	dml: c.throw.s.text	*MSC 6
THROW_STK	bdefs: def.throw.text	MSC 6
THROW_STK	dml: throw.text	MSC 6
THROW_STK	dml: busy.text	MSC 6

(The above module is not part of the released system. It is a special module that the stackdepth programs use instead of THROW. It removes some recursion problems from the stackdepth printouts)

BASMSG	dml: c.basmsg.text	*MSC 6
BASMSG	bdefs: def.basmsg.text	MSC 6
BASMSG	dml: basmsg.text	MSC 6

CRT	hlc:c.crt.text	*MSC 7
CRT	bdefs:def.crt.text	MSC 7
CRT	bdefs:def.crt2.text	MSC 7
CRT	bdefs:def.crt2s.text	MSC 7
CRT	bdefs:def.crtpr.text	MSC 7
CRT	bdefs:def.crtasm.text	MSC 7
CRT	error:err.kbdcrt.text	MSC 7
	(Also contains errors for KEYBOARD module)	
CRT	hlc:mod.crt.text	MSC 7
CRT	hlc:crtio.text	MSC 7
CRT	hlc:wprims.text	MSC 7
CRT	hlc:crtprint.text	MSC 7
CRT	hlc:kybdisp.text	MSC 7
CRT	hlc:editsup.text	MSC 7
CRT	hlc:crtinit.text	MSC 7
SFKMF	twf:c.sfkf.text	*MSC 7
SFKMF	bdefs:def.sfkf.text	MSC 7
SFKMF	twf:sfkf.text	MSC 7
HI	hlc:c.hi.text	*MSC 7
HI	bdefs:def.hi.text	MSC 7
HI	hlc:mod.hi.text	MSC 7
BASIC_HUMAN_INTERFACE	hlc:c.bhi.text	*MSC 7
BASIC_HUMAN_INTERFACE	bdefs:def.bhi.text	MSC 7
BASIC_HUMAN_INTERFACE	hlc:mod.bhi.text	MSC 7
HI_DEMON	hlc:c.hidem.text	*MSC 7
HI_DEMON	bdefs:def.hidem.text	MSC 7
HI_DEMON	hlc:mod.hidem.text	MSC 7
KEYBOARD	hlc:c.kybd.text	*MSC 7
KEYBOARD	bdefs:def.kybd.text	MSC 7
KEYBOARD	bdefs:def.kybd2.text	MSC 7
KEYBOARD	bdefs:def.keyasm.text	MSC 7
KEYBOARD	hlc:mod.kybd1.text	MSC 7
KEYBOARD	hlc:mod.kybd2.text	MSC 7
KEYBOARD	hlc:mod.kybd3.text	MSC 7
KEYCONVERSION	hlc:c.keycnvt.text	*MSC 7
KEYCONVERSION	bdefs:def.keycnvt.text	MSC 7
KEYCONVERSION	hlc:mod.kycnvt.text	MSC 7
PRINTER_DRIVER	hlc:c.intprt.txt	*MSC 7
PRINTER_DRIVER	bdefs:def.intprt.text	MSC 7
PRINTER_DRIVER	hlc:mod.intprt.text	MSC 7
DAWN_EDITOR	twf:c.ed.text	*MSC 7
DAWN_EDITOR	bdefs:def.ed.text	MSC 7
DAWN_EDITOR	twf:editor.text	MSC 7
DAWN_EDITOR	twf:edutils.text	MSC 7
DAWN_EDITOR	twf:coeditor.text	MSC 7

(The following CREATE_BIN_FCS module is for completeness, and is NOT part

of the system.)

CREATE_BIN_FCS
CREATE_BIN_FCS
CREATE_BIN_FCS

kmf:createbin.text *MSC 19
kmf:createfcs.text MSC 19
kmf:cbin.tbl.text ASC 19

AP_PARSER_COMPILER_MODULE
AP_PARSER_COMPILER_MODULE
AP_PARSER_COMPILER_MODULE
AP_PARSER_COMPILER_MODULE
AP_PARSER_COMPILER_MODULE
AP_PARSER_COMPILER_MODULE
AP_PARSER_COMPILER_MODULE

rrr:c.ap.rom.text *MSC 20
optdefs:def.apcon.text MSC 20
error:err.appar.text MSC 20
rrr:ap.rom.text MSC 20
rrr:ap.con.text MSC 20
rrr:ap.parser.text MSC 20
rrr:ap.apply.text MSC 20
rrr:ap.comp.text MSC 20

ALLOC
ALLOC
ALLOC
ALLOC
ALLOC

rrr:c.alloc.text *MSC 20
optdefs:def.alloc.text MSC 20
error:err.alloc.text MSC 20
rrr:alloc.text MSC 20
rrr:alloc.data.text MSC 20

SYSTEM_STRING_SCANNER_MODULE
SYSTEM_STRING_SCANNER_MODULE
SYSTEM_STRING_SCANNER_MODULE
SYSTEM_STRING_SCANNER_MODULE
SYSTEM_STRING_SCANNER_MODULE
SYSTEM_STRING_SCANNER_MODULE

rrr:c.ssscan.text *MSC 20
optdefs:def.ssscan.text MSC 20
error:err.scan.text MSC 20
error:err.parser.text MSC 20
rrr:par.scan.text MSC 20
rrr:ssscan.text MSC 20

SIGNAL
SIGNAL
SIGNAL
SIGNAL

dml:c.signal.text *MSC 20
optdefs:def.signal.text MSC 20
error:err.signal.text MSC 20
dml:signal.text MSC 20

AP_LEXICAL_FUNCTIONS
AP_LEXICAL_FUNCTIONS
AP_LEXICAL_FUNCTIONS
AP_LEXICAL_FUNCTIONS

gls:ap.lex.dvr.text *MSC 20
optdefs:def.ap.lex.text MSC 20
optdefs:def.foreign.text MSC 20
gls:ap.lex.imp.text MSC 20

SORT_REORDER_MODULE
SORT_REORDER_MODULE
SORT_REORDER_MODULE
SORT_REORDER_MODULE
SORT_REORDER_MODULE

gls:sort.dvr.text *MSC 20
optdefs:def.sort.text MSC 20
gls:sort1.imp.text MSC 20
gls:sort2.imp.text MSC 20
gls:sort3.imp.text MSC 20

AP_STRUCTURED_STATEMENTS
AP_STRUCTURED_STATEMENTS
AP_STRUCTURED_STATEMENTS
AP_STRUCTURED_STATEMENTS
AP_STRUCTURED_STATEMENTS

rrr:c.apstr.text *MSC 20
optdefs:def.apstr.text MSC 20
error:err.apstr.text MSC 20
rrr:ap.struct.text MSC 20
rrr:indent.text MSC 20

DELSUB
DELSUB
DELSUB

rrr:c.delsub.text *MSC 20
optdefs:def.delsub.text MSC 20
rrr:delsub.text MSC 20

APRTC
APRTC
APRTC

rrr:c.aprtc.text *MSC 20
optdefs:def.aprtc.text MSC 20
error:err.aprtc.text MSC 20

APRTC	rrr:ap.rtc.text	MSC 20
ALLC	twf:c.allc.text	*MSC 20
ALLC	optdefs:def.allc.text	MSC 20
ALLC	twf:allc.text	MSC 20
APCOMP	dml:c.apcomp.text	*MSC 20
APCOMP	optdefs:def.apcomp.text	MSC 20
APCOMP	dml:apcomp.text	MSC 20
SC	twf:c.sc.text	*MSC 20
SC	optdefs:def.sc.text	MSC 20
SC	twf:sc.text	MSC 20
SFKOR	twf:c.sfkor.text	*MSC 20
SFKOR	optdefs:def.sfkor.text	MSC 20
SFKOR	twf:sfkor.text	MSC 20
MULTIPLE_PARTITIONS	kmf:c.part_m.text	*MSC 20
MULTIPLE_PARTITIONS	optdefs:def.part_m.text	MSC 20
MULTIPLE_PARTITIONS	optdefs:def.ap_asmb.text	MSC 20
MULTIPLE_PARTITIONS	errors:err.dw.text	MSC 20
MULTIPLE_PARTITIONS	kmf:mod.part_m.text	MSC 20
MULTIPLE_PARTITIONS	kmf:mod.partm2.text	MSC 20
BASIC_MULT_PARTS	rrr:c.part_b.text	*MSC 20
BASIC_MULT_PARTS	optdefs:def.part_b.text	MSC 20
BASIC_MULT_PARTS	error:err.drpart.text	MSC 20
BASIC_MULT_PARTS	error:err.dw.text	MSC 20
BASIC_MULT_PARTS	rrr:mod.part_b.text	MSC 20
BASIC_MULT_PARTS	rrr:onevent.text	MSC 20
PART_CODEGEN	rrr:c.part_c.text	*MSC 20
PART_CODEGEN	optdefs:def.part_c.text	MSC 20
PART_CODEGEN	rrr:mod.part_c.text	MSC 20
PART_CODEGEN	rrr:onevent_cg.text	MSC 20
APEXP	twf:c.apexp.text	*MSC 20
APEXP	optdefs:def.apexp.text	MSC 20
APEXP	twf:apexp.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:c.ap_mm.text	*MSC 20
AP_ROM_MM_SUPPORT	optdefs:def.ap_mm.text	MSC 20
AP_ROM_MM_SUPPORT	optdefs:def.apm_cg.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:ap_gen.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:get.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:save.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:ap_mm_util.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:freespace.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:createprog.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:catprog.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:searchdir.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:re.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:loadsub.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:storesub.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:storebin.text	MSC 20
AP_ROM_MM_SUPPORT	kmf:storekey.text	MSC 20

AP_ROM_MM_SUPPORT	kmf:compfs.text	MSC 20
MATRIX_COMPILER_MODULE	gls:matrom.dvr.text	*MSC 20
MATRIX_COMPILER_MODULE	optdefs:def.matrom.text	MSC 20
MATRIX_COMPILER_MODULE	gls:matrom.imp.text	MSC 20
MAT_ROM_CODEGEN	gls:matgen.dvr.text	*MSC 20
MAT_ROM_CODEGEN	optdefs:def.matgen.text	MSC 20
MAT_ROM_CODEGEN	gls:matgn0.imp.text	MSC 20
MAT_ROM_CODEGEN	gls:matgn1.imp.text	MSC 20
MAT_ROM_CODEGEN	gls:matgn2.imp.text	MSC 20
MATRIX_INVERSE	gls:matinv.dvr.text	*MSC 20
MATRIX_INVERSE	optdefs:def.matinv.text	MSC 20
MATRIX_INVERSE	optdefs:def.getstk.text	MSC 20
MATRIX_INVERSE	gls:matinv.imp.text	MSC 20
MATRIX_FUNCTIONS	gls:matfns.dvr.text	*MSC 20
MATRIX_FUNCTIONS	optdefs:def.matfns.text	MSC 20
MATRIX_FUNCTIONS	gls:matfns.imp.text	MSC 20
MATRIX_OPERATIONS	gls:matops.dvr.text	*MSC 20
MATRIX_OPERATIONS	optdefs:def.matops.text	MSC 20
MATRIX_OPERATIONS	gls:matops.imp.text	MSC 20
SYSTEM_ST_MODULE	gls:sys_st.dvr.text	*MSC 20
SYSTEM_ST_MODULE	optdefs:def.sys_st.text	MSC 20
SYSTEM_ST_MODULE	gls:sys_st.imp.text	MSC 20
HIOPT	hlc:c.hiopt.text	*MSC 20
HIOPT	optdefs:def.hiopt.text	MSC 20
HIOPT	hlc:mod.hiopt.text	MSC 20
HIOPT	hlc:optprint.text	MSC 20
HIOPT	hlc:optwindo.text	MSC 20
MASS_MEM_OPTION	kmf:c.mmopt.text	*MSC 21
MASS_MEM_OPTION	optdefs:def.mmopt.text	MSC 21
MASS_MEM_OPTION	errors:err.mmm.text	MSC 21
MASS_MEM_OPTION	kmf:optgen.text	MSC 21
MASS_MEM_OPTION	kmf:pathbldr.text	MSC 21
MASS_MEM_OPTION	kmf:protect.text	MSC 21
MASS_MEM_OPTION	kmf:labels.text	MSC 21
MASS_MEM_OPTION	kmf:msrom_msus.text	MSC 21
LIF_ASCII_SUPPORT	kmf:c.ascii.text	*MSC 21
LIF_ASCII_SUPPORT	kmf:ascii.text	MSC 21
BCD_DATA_FILES	kmf:c.bcd.text	*MSC 21
BCD_DATA_FILES	errors:err.mmm.text	MSC 21
BCD_DATA_FILES	kmf:bdefs:def.bcddat.text	MSC 21
BCD_DATA_FILES	kmf:bcd.util.text	MSC 21
BCD_DATA_FILES	kmf:bcdnums.text	MSC 21

BCD_DATA_FILES

kmf:bcdstr.text MSC 21

BIT_JUMP_TABLE

kmf:bdat.text *MSC 21

BDAT_JUMP_TABLE

kmf:bdat2.text MSC 21

MM_PARSER_MODULE

rrr:c.mm.rom.text *MSC 21

MM_PARSER_MODULE

optdefs:def.mmpar.text MSC 21

MM_PARSER_MODULE

error:err.mmpar.text MSC 21

MM_PARSER_MODULE

rrr:mm.rom.text MSC 21

MM_PARSER_MODULE

rrr:mm.con.text MSC 21

MM_PARSER_MODULE

rrr:mm.parser.text MSC 21

B. FOCUS ASSEMBLER Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
MSUS_PARSER_INIT	kmf:msus.tbl.text	*ASC	3
EMIT	twt:equ.asm.text	ASC	4
EMIT	twt:emit.hw.text	*ASC	4
EMIT	twt:emit.em.text	*ASC	4
EMIT	twt:emit.text	ASC	4
PTABLES	rrr:ptables.text	*ASC	5
PTABLES	rrr:lex.text	ASC	5
PTABLES	rrr:keys.text	ASC	5
PTABLES	rrr:mantab.text	ASC	5
PTABLES	rrr:exptab.text	ASC	5
PTABLES	bdefs:def.ptab.text	MSC	5
(def file contains the definitions for other modules to use, but it is not included in the assembly process)			
PTABLES	EXPGRAM.DICK.DAWN	3000	5
PTABLES	MAINGRAM.DICK.DAWN	3000	5
PTABLES	rrr:keysource.text	TXT	5
PTABLES	rrr:lex.source.text	TXT	5
(above four are the original source for exptab, mantab, keys, and lex; they are not assembled directly)			
LEXICAL_FUNCTIONS	gls:ul.table.text	*ASC	5
SIMPLE_MATH_FUNCTIONS	gls:trunk.text	*ASC	5
TRACE_ASMB_PROCS	rrr:tr.asmb.text	*ASC	6
TRACE_ASMB_PROCS	bdefs:def.trasmb.text	MSC	6
(def file contains the definitions for other modules to use, but it is not included in the assembly process)			
ERROR_HANDLER	twt:err.text	---	6
(Source made by running twt:ge.ch.code)			
ERROR_HANDLER	twt:ostran.text	ASC	6
ASMB_PROCS	dml:asmb1.text	*ASC	6
ASMB_PROCS	dml:q.asmb1.asm	ASC	6
(q.asmb1.asm is produced by running the equate generator (equate.code) with the driver file dml:q.asmb1.text)			
ASMB_PROCS	bdefs:def.asmb1.text	MSC	---
(this def file is not actually used in producing the link file from the assembly language source, but serves as the specification for callers of procedures in link file asmb1)			
ASMB_PROCS	dml:q.asmb1.text	*MSC	6
(this driver file is run through the equate generator (equate.code) to produce dml:q.asmb1.asm which in turn is included by dml:asmb1.text)			
ASMB_PROCS	dml:asmb2.text	*ASC	6
ASMB_PROCS	dml:q.asmb2.asm	ASC	6
(q.asmb2.asm is produced by running the equate generator			

(equate.code) with the driver file dml:q.asmb2.text)

```
ASMB_PROCS          dml:asmb2.1.text          ASC 6
ASMB_PROCS          dml:asmb2.2.text          ASC 6
ASMB_PROCS          dml:asmb2.3.text          ASC 6
ASME_PROCS          dml:def.asmb2.text        MSC  --
    ( this def file is not actually used in producing the line file
    from the assembly language source, but serves as the specification
    for callers of procedures in link file asmb2 )
ASME_PROCS          dml:q.asmb2.text          *MSC 6
    ( this driver file is run through the equate generator
    (equate.code) to produce dml:q.asmb2.asm which in turn is
    included by dml:asmb2.text )

CRT                 hlc:mod.crtasm.text       ASC 7

KEYBOARD            hlc:c.keyasm.text         *ASC 7
KEYBOARD            hlc:hdw.keyasm.text       ASC 7
KEYBOARD            hlc:hdw.keytbl.text       ASC 7
KEYBOARD            hlc:hdw.keyequ.text       ASC 7

AP_PARSER_TABLES   rrr:ap.tables.text        *ASC 20
AP_PARSER_TABLES   rrr:ap.tab.text           ASC 20
AP_PARSER_TABLES   rrr:ap.keys.text          ASC 20
AP_PARSER_TABLES   optdefs:def.apstab.text   MSC 20
    ( def file contains the definitions for other modules to use, but
    it is not included in the assembly process )
AP_PARSER_TABLES   APROGRAM.DICK.DAWN        3000 20
AP_PARSER_TABLES   rrr:ap.keysource.text     TXT 20
    ( above two are the original source for ap.tab and ap.keys,
    they are not assembled directly )

SFKOR               twt:expan.text            --- 20
                   (Source made by running
SFKOR               twt:gensfk.ch.code)

AP_ASMB             kmf:ap_asmb.text          ASC 20

AP_LEXICAL_FUNCTIONS gls:foreign.text         *ASC 20

MATRIX_INVERSE     gls:getstk.text           *ASC 20

MM_PARSER_TABLES   rrr:mm.tables.text        *ASC 21
MM_PARSER_TABLES   rrr:mm.tab.text           ASC 21
MM_PARSER_TABLES   rrr:mm.keys.text          ASC 21
MM_PARSER_TABLES   optdefs:def.mmtab.text    MSC 21
    ( def file contains the definitions for other modules to use, but
    it is not included in the assembly process )
MM_PARSER_TABLES   MPROGRAM.DICK.DAWN        3000 21
MM_PARSER_TABLES   rrr:mm.keysource.text     TXT 21
    ( above two are the original source for mm.tab and mm.keys,
    they are not assembled directly )

BCD_CONVERT         kmf:bcd_convrt.text       ASC 21

ERRORS_ENG         twt:longerr.text          --- 25
                   (Source made by running
                   twt:ge.ch2.code)
```

7. Link Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
BASIC_FILE_MGR	bl-:mm.mgr.link	LINK	3
READ_PRINT_NUM_SUPPORT	bl-:rpnum.link	LINK	3
MM_UTILITIES	bl-:mmutil.link	LINK	3
MASS_MEM	bl-:mmsys.link	LINK	3
PROG_IO	bl-:progio.link	LINK	3
DATA_FILE_TYPE	bl-:data.link	LINK	3
IO_PROCS	bl-:iojump.link	LINK	3
MSUS_PARSER_INIT	bl-:msus.tbl.link	LINK	3
COMPILE_LINE	bl-:compline.link	LINK	4
COMPILER	bl-:computil.link	LINK	4
FOCUS_INSTRUCTIONS	bl-:focus.link	LINK	4
COMPSTMT	bl-:stmt.link	LINK	4
EXP	bl-:exp.link	LINK	4
EMIT	bl-:emit.hw.link	LINK	4
STRUCTURED_STATEMENTS	bl-:struct.link	LINK	4
RTC	bl-:rtc.link	LINK	4
PASS1	bl-:pass1.link	LINK	4
PASS2	bl-:pass2.link	LINK	4
MMM_COMPILER	bl-:io.codgen.link	LINK	4
BCOMP	bl-:bc.link	LINK	4
SIMPLE_MATH_FUNCTIONS	bl-:smath.link	LINK	4
SCANNER_MODULE	bl-:scan.link	LINK	5
PARSERS	bl-:parser.link	LINK	5
PTABLES	bl-:ptables.link	LINK	5
SYMBOL_TABLE_MODULE	bl-:smtb.link	LINK	5
SMTB_STK	opt-:smtb.stk.link	LINK	5

(The above module is not part of the released system. It is a special module that the stackdepth programs use instead of

SYMBOL_TABLE_MODULE. It removes some recursion problems from the stackdepth printouts.)

LISTER	bl-:list.link	LINK 5
CONTEXT_CHAIN_SUPPORT	bl-:chain.link	LINK 5
BASIC_CNTXT_MGR	bl-:cntxt.link	LINK 5
STRING_FUNCTIONS	bl-:strfns.link	LINK 5
LEXICAL_FUNCTIONS	bl-:lex.link	LINK 5
LEXICAL_FUNCTIONS	bl-:ul.table.link	LINK 5
SIMPLE_MATH_FUNCTIONS	bl-:trunk.link	LINK 5
MATH	bl-:math.link	LINK 5
BASIC_EXECUTIVE	bl-:em.link	LINK 6
OPTION_INTERFACE	bl-:opint.link	LINK 6
BASIC_WAIT	bl-:wait.link	LINK 6
TRACE_ASMB_PROCS	bl-:tr.asmb.link	LINK 6
INPUT_HANDLER	bl-:input.link	LINK 6
CODE_MODULE	bl-:icode.link	LINK 6
MISC_IO_COMP_SUPPORT	bl-:misc.link	LINK 6
TRACE_MODULE	bl-:trace.link	LINK 6
ERROR_HANDLER	bl-:eh.link	LINK 6
ERROR_HANDLER	bl-:err.link	LINK 6
ERROR_HANDLER	bl-:oserr.link	LINK 6
ASMB_PROCS	bl-:asmb1.link	LINK 6
ASMB_PROCS	bl-:asmb2.link	LINK 6
COM	bl-:com.link	LINK 6
ON	bl-:on.link	LINK 6
PRERUN	bl-:prerun.link	LINK 6
	(some of the procedures in this link file are in segment 4 instead of segment 6)	
BASIC_RUN	bl-:rm.link	LINK 6
BLN_PROCESS	bl-:rp.link	LINK 6
SOLC_TRAP	bl-:solc.link	LINK 6
THROW	bl-:throw.link	LINK 6

THROW_STK	opt-:throw.stk.link	LINK 6
<p>(The above module is not part of the released system. It is a special module that the stackdepth programs use instead of THROW. It removes some recursion problems from the stackdepth printouts.)</p>		
BASMSG	bl-:basmsg.link	LINK 6
CRT	bl-:crt.link	LINK 7
SFKMF	bl-:sfkmf.link	LINK 7
BASIC_HUMAN_INTERFACE	bl-:hi.link	LINK 7
KEYBOARD	bl-:kybd.link	LINK 7
DAWN_EDITOR	bl-:ed.link	LINK 7
CREATE_BIN_FCS	opt-:cbinfcs.link	LINK 19
AP_PARSER_COMPILER_MODULE	opt-:ap.rom.link	LINK 20
AP_PARSER_TABLES	opt-:ap.tables.link	LINK 20
ALLOC	opt-:alloc.link	LINK 20
SYSTEM_STRING_SCANNER_MODULE	opt-:ssscan.link	LINK 20
SIGNAL	opt-:signal.link	LINK 20
AP_LEXICAL_FUNCTIONS	opt-:ap.lex.link	LINK 20
AP_LEXICAL_FUNCTIONS	opt-:foreign.link	LINK 20
SORT_REORDER_MODULE	opt-:sort.link	LINK 20
AP_STRUCTURED_STATEMENTS	opt-:apstr.link	LINK 20
DELSUB	opt-:delsub.link	LINK 20
APRTC	opt-:aprtc.link	LINK 20
ALLC	opt-:allc.link	LINK 20
APCOMP	opt-:apcomp.link	LINK 20
SC	opt-:sc.link	LINK 20
SFKOR	opt-:sfkor.link	LINK 20
SFKOR	opt-:expan.link	LINK 20
MULTIPLE_PARTITIONS	opt-:part_m.link	LINK 20
BASIC_MULT_PARTS	opt-:part_b.link	LINK 20
PART_CODEGEN	opt-:part_c.link	LINK 20

AP_ASMB	opt=:ap_asmb.link	LINK 20
EXP	opt=:apexp.link	LINK 20
AP_ROM_MM_SUPPORT	opt=:ap_mm.link	LINK 20
MATRIX_COMPILER_MODULE	opt=:matrom.link	LINK 20
MAT_ROM_CODEGEN	opt=:matgen.link	LINK 20
MATRIX_INVERSE	opt=:matinv.link	LINK 20
MATRIX_FUNCTIONS	opt=:matfns.link	LINK 20
MATRIX_OPERATIONS	opt=:matops.link	LINK 20
SYSTEM_ST_MODULE	opt=:sys_st.link	LINK 20
HIOPT	opt=:hiept.link	LINK 20
MATRIX_INVERSE	opt=:getstk.link	LINK 20
MASS_MEM_OPTION	opt=:mmoption.link	LINK 21
LIF_ASCII_SUPPORT	opt=:ascii.link	LINK 21
BCD_DATA_FILES	opt=:bcd.link	LINK 21
BAT_JUMP_TABLE	opt=:bdat.link	LINK 21
MM_PARSER_MODULE	opt=:mm_rom.link	LINK 21
MM_PARSER_TABLES	opt=:mm_tables.link	LINK 21
BCD_CONVERT	opt=:bcdconvrt.link	LINK 21
ERRORS_ENG	bl=:lerr.link	LINK 25

Special Test Tools:

A. Special Test MODCAL Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
WHET	dml:whet.text	*MSC	24
THWY_FCS_MODULE	dml:c.thwy_fcs.text	*MSC	32
THWY_FCS_MODULE	dml:thwy_fcs.text	MSC	32

B. Special Test FOCUS ASSEMBLER Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
WHET	dml:whetseghd.text	*ASC	32

C. Special Test LINK Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
WHET	dml:whet.link	LINK	24
THWY_FCS_MODULE	dml:thwy_fcs.link	LINK	32

9a. GAR Modules/Files

GAR_KMF	gar:gar.mmm.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Karl Freund's code)		
GAR_HLC	gar:gar.hlc.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Harvey Clawson's code)		
TWT_STACK_GUARANTEE	gar:gar.twt.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Tim Tillson's code)		
DML_GUARANTEE_CONSTANTS	gar:gar.dml.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Dave Landers's code)		
DR_GUARANTEES	gar:gar.dr.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Dick Rupp's code)		
GAR_GLS	gar:gar.gls.text	MSC ---
(constant declarations only; no code)		
(stack guarantee constants for Gerrie Shults' code)		

9b. Special DEF file Notes

BGLOB	bdefs:def.bglob.text	MSC ---
(BASIC global data structure definitions only; no code)		
ICODE_CONSTANTS	bdefs:def.icode.text	MSC ---
(Intermediate code constants only; no code)		
MESSAGES	bdefs:def.msgs.text	MSC ---
(data structure declarations only; no code)		
EP_MESSAGES	bdefs:def.ep_msg.text	MSC ---
(data structure declarations only; no code)		
RP_MESSAGES	bdefs:def.rp_msg.text	MSC ---
(data structure declarations only; no code)		

SUN OPERATING SYSTEM
SOFTWARE DOCUMENTATION INDEX

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1. External Reference Specification
2. Internal Reference Specification
3. Module Interface Specification
4. Maintenance Guide
5. Stream/Linker/Link Merge Command Files
6. Source Files
7. Link Files
8. Special Test Tools

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disk (Part #S-97050-90310-1)

0. Software Documentation Indexes:

The SUN Operating System is comprised of many subsystems. In addition, documentation of the SUN Operating System is also partitioned into several independent documents. For each subsystem within SUNOS, there exists a software documentation index which describes the documentation, modules, and files associated with that subsystem.

This document serves as a index to the documentation of all of the component subsystems of SUNOS. As the highest level of the SUNOS documentation hierarchy, this software documentation index also describes any documentation and files pertaining to SUNOS as a whole.

The following table enumerates the component subsystems of SUNOS and lists the files which make up the software documentation index for each of the subsystems.

SUNOS Subsystem	LISTER file TEXT file
Powerup, System Initialization, Object Manager, Timer Manager, NVM Manager, Error Printer	bdo:bdo.index.lst bdo:bdo.index.text
Process Manager, Partition Manager, Trap Manager	rjb:rjb.index.lst rjb:rjb.index.text
Memory Manager	dg:mem.index.lst dg:mem.index.text
Message Manager	dg:msg.index.lst

	dg:msg.index.text
Buffer Manager	dg:buf.index.lst dg:buf.index.text
I/O Primitives	rml:rml.index.lst rml:rml.index.text
File System	cem:index.lst cem:index.text cem:index2.text
System Self Test	bdo:fr.index.lst bdo:fr.index.text
Device Drivers	mem:index.lst mem:index.text
Device Drivers (7970 Tape)	df:dp.index.lst df:dp.index.text
Device Drivers (GPIO/Serial)	df:df.index.lst df:df.index.text
Julian Time Support	rrr:osrtc.indx.lst rrr:osrtc.indx.text

This highest level software documentation index is contained in the following files. It is intended to be an index to the indexes of all SUNOS subsystems.

A. Lister command file:	ERS:OS.INDEX.LST
B. Text file:	ERS:OS.INDEX.TEXT

The entire SUN OS software documentation index is contained in the following files:

A. Lister command file:	ERS:SUNOS.INDEX.LST
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1. External Reference Specification

Strictly speaking, an ERS was not written for the SUN Operating System. However, similar information is contained in the SUN Operating System Overview Document which can be accessed in the following files:

A. Lister command files:	ERS:OSVIEW.LST
B. Text files:	ERS:OSTEXT0.TEXT ERS:OSTEXT1.TEXT ERS:OSTEXT2.TEXT ERS:OSTEXT3.TEXT ERS:OSTEXT4.TEXT ERS:OSTEXT5.TEXT

ERS:OSTEXT6.TEXT
ERS:OSTEXT7.TEXT
ERS:OSTEXT8.TEXT
ERS:OSTEXT9.TEXT
ERS:OSTEXTA.TEXT

2. Internal Reference Specification

No IRS exists for the SUNOS as a whole. Refer to software documentation indexes listed above for each of the component subsystems.

3. Module Interface Specification

No MIS exists for the SUNOS as a whole. Refer to software documentation indexes listed above for each of the component subsystems.

4. Maintenance Guide

No maintenance guide exists for the SUNOS as a whole. Refer to software documentation indexes listed above for each of the component subsystems.

5. Stream/Linker/Link Merge Command Files

A. Link merge command files: oslink:oslink.text (D#)
 osl-:oslink.text (D-)

(Used to linkmerge most of the separate link files of the component subsystems of SUNOS into a single link file (sunos.link). This link merge command file is used in the compile stream files listed below.)

B. Compiler Stream Files

1. *comp.-.os.text - Stream file for generating D- SUNOS
2. *comp.#.os.text - Stream file for generating D# SUNOS
3. *comp.l.os.text - Stream file for generating listings of SUNOS

6. Source Files

A. SUNOS Modcal Source Files

Refer to software documentation indexes listed above for each of the component subsystems.

B. SUNOS Focus Assembly Source Files

Refer to software documentation indexes listed above for each of the component subsystems.

7. SUNOS Link Files

MODULE NAME	FILE NAME	TYPE SEGMENT
SUNOS	osl-:sunos.link	LINK 2

The following subsystems consist of link files which are not linkmerged into osl-:sunos.link and oslink:sunos.link.

- File System
- Device Drivers
- System Self Test

Refer to the appropriate index for the link files produced for these subsystems. The link files of all other subsystems are linkmerged into sunos.link.

8. SUNOS Special Test Tools

Refer to software documentation indexes listed above for each of the component subsystems.

Powerup, Initialization, Timer, Object, NVM, Error
SOFTWARE DOCUMENTATION INDEX

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0. Software Documentation Index
1. External Reference Specification (ERS)
2. Internal Reference Specification (IRS)
3. Module Interface Specification (MIS)
4. Maintenance Guide
5. Stream Files
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7. Link Files

0. Software Documentation Index

- A. *LISTER file: handled by OS
- B. TEXT file: bdo:bdo.index.text

1. External Reference Specification (ERS)
Covered by SUNOS Overview

2. Internal Reference Specification (IRS)
Documented in source and in def. files

3. Module Interface Specification (MIS)

- A. *LISTER files: mis:mis.init.lst
mis:mis.timer.lst
mis:mis.errprt.lst
mis:mis.owner.lst
mis:mis.nvm.lst

- B. TEXT files: mis:mis.init.text
mis:mis.timer.text
mis:mis.errprt.text
mis:mis.owner.text
mis:mis.nvm.text

4. Maintenance Guide

- A. *LISTER file: bdo:bdo.maint.lst
- B. TEXT file: bdo:bdo.maint.text

5. Stream Files

A. Linker Command File:

See blink:linkcom.d.text to link Basic product including these modules.
See oslink:oslink.text to linkmerge sunos.link including these modules.

B. Compiler/assembler stream files:

bdo:comp.#.bdo.text - stream file for compiling modules D#
bdo:comp.-.bdo.text - stream file for compiling modules D-
bdo:comp.l.bdo.text - stream file for generating listings of modules

6. Source Files

A. MODCAL Source Files

MODULE NAME	FILE TYPE	TYPE	SEGMENT
SYS_INIT/SYSTEM_STARTUP	osdefs:def.sysint.text	MSC	2
SYS_INIT/SYSTEM_STARTUP	bdo:visitor.text	MSC	2
SYS_INIT/SYSTEM_STARTUP	bdo:sysint.text	*MSC	2
OBJECT_MANAGER	osdefs:def.pcsmgr.text	MSC	2
OBJECT_MANAGER	bdo:owner.text	*MSC	2
TIMER_MANAGER	osdefs:def.timmgr.text	MSC	2
TIMER_MANAGER	bdo:gar.timer.text	MSC	2
TIMER_MANAGER	bdo:timemgr.text	*MSC	2
NVM_MANAGER	osdefs:def.nvmmgr.text	MSC	2
NVM_MANAGER	bdo:nvmmgr.text	*MSC	2

B. FOCUS Assembly Language Source Files

MODULE NAME	FILE TYPE	TYPE	SEGMENT
POWERUP	osdefs:tcb.text	ASC	2
POWERUP	bdo:powerup0.text	ASC	2
POWERUP	bdo:powerup1.text	ASC	2
POWERUP	bdo:powerup2.text	ASC	2
POWERUP	bdo:powerup3.text	ASC	2
POWERUP	bdo:powerup4.text	ASC	2
POWERUP	bdo:powerup5.text	ASC	2
POWERUP	bdo:powerup.text	*ASC	2
TIMEPRIM/TIMER_MANAGER	osdefs:tcb.text	ASC	2
TIMEPRIM/TIMER_MANAGER	bdo:timeprim.text	*ASC	2
ERRORPRINT	osdefs:tcb.text	ASC	2
ERRORPRINT	osdefs:utils.text	ASC	2
ERRORPRINT	bdo:errorprin1.text	ASC	2
ERRORPRINT	bdo:errorprint.text	*ASC	2

7. Link Files

MODULE NAME	FILE TYPE	TYPE	SEGMENT
SYS_INIT/SYSTEM_STARTUP	osl:-sysint.link	LINK	2
OBJECT_MANAGER	osl:-owner.link	LINK	2
TIMER_MANAGER	osl:-timemgr.link	LINK	2
NVM_MANAGER	osl:-nvmmgr.link	LINK	2
POWERUP	osl:-powerup.link	LINK	17
TIMEPRIM/TIMER_MANAGER	osl:-timeprim.link	LINK	2
ERRORPRINT	osl:-errorprint.link	LINK	2

B. Special Test Tools

A. Special Test MODCAL Source Files

MODULE NAME	FILE TYPE	TYPE SEGMENT
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B. Special Test FOCUS Assembly Language Source Files

MODULE NAME	FILE TYPE	TYPE SEGMENT
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C. Special Test Link Files

MODULE NAME	FILE TYPE	TYPE SEGMENT
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Process, Partition, Trap Manager
SOFTWARE DOCUMENTATION INDEX
by Robert Bury

0. Software Documentation Index

- A. *LISTER file: rjb:rjb.index.lst
- B. TEXT file: rjb:rjb.index.text

1. External Reference Specification (ERS)

None specifically for these modules. Covered by SUNOS Overview

2. Internal Reference Specification (IRS)

No explicit document. Documented in source and in def. files

3. Module Interface Specification (MIS)

- A. *LISTER files:
 - rjb:mis.pcsmgr.lst (Process Manager MIS)
 - rjb:mis.trap.lst (Trap Manager MIS)
 - rjb:mis.part.lst (Partition Manager MIS)
- B. TEXT files:
 - rjb:mis.pcs.tc.text (Process Manager MIS)
 - rjb:mis.pcsmg1.text
 - rjb:mis.pcsmg2.text
 - rjb:mis.pcsmg3.text
 - rjb:mis.trap.text (Trap Manager MIS)
 - rjb:mis.part.text (Partition Manager MIS)

4. Maintenance Guide

- A. *LISTER file: rjb:rjb.maint.lst
- B. TEXT file: rjb:rjb.maint.text

5. Stream Files

- A. Linker Command File:
 - See blink:linkcom.d.text to link Basic product including these modules.
 - See oslink:oslink.text to linkmerge sunos.link including these modules.
- B. Compiler/assembler/linkmerge stream files:
 - rjb:comp.#.rjb.text - stream file for compiling Sunos modules D#
 - rjb:comp.-.rjb.text - stream file for compiling Sunos modules D-
 - rjb:comp.l.rjb.text - stream file for generating listings of modules
 - *comp.-.deb.text - stream file for os support for debugger (osdebug)
 - oslink:osdebug.text - Linkmerge command file for *osdebug.link

6. Source Files - Process Manager, Partition Manager, and Trap Manager Modules

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
STACK_SIZE_CONSTANTS	rjb:gar.rjb.text	MSC	2

PROCESS_MANAGER	osdefs: def.pcsmgr.text	MSC	2
PROCESS_MANAGER	rjb: procmgr.text	*MSC	2
PROCESS_MANAGER	rjb: procmgr1.text	MSC	2
TRAP_MANAGER	osdefs: def.pcsmgr.text	MSC	2
TRAP_MANAGER	rjb: trapmgr.text	*MSC	2
TRAP_MANAGER	rjb: trapmgr1.text	MSC	2
PARTITION_MANAGER	osdefs: def.pcsmgr.text	MSC	2
PARTITION_MANAGER	rjb: partmgr.text	*MSC	2

The following 2 modules (osdeb and mc_dump) are linkmerged into *osdebug.link to provide os support for the debugger. They are compiled by streaming *c:comp.-.deb.text and are included in segment 9.

OSDEB/OSDEBUG	osdefs: def.osdeb.text	MSC	9
OSDEB/OSDEBUG	rjb: osdeb.text	*MSC	9
MC_DUMP/OSDEBUG	rjb: mc_dump.text	*MSC	9

B. FOCUS Assembly Language Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
SEMAPHORE/PROCESS_MANAGER	osdefs: tcb.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: queue.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: queue1.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: downup.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: bumpdownup.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: bumpable.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: bump.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: utilities.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: up.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: down.text	ASC	2
SEMAPHORE/PROCESS_MANAGER	rjb: semaphore.text	*ASC	2
DISPATCHER/PROCESS_MANAGER	osdefs: tcb.text	ASC	2
DISPATCHER/PROCESS_MANAGER	rjb: dispatcher.text	*ASC	2
TRAPS/TRAP_MANAGER	osdefs: tcb.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps0.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps1.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps1a.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps1.5.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps2.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps3.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps4.text	ASC	2
TRAPS/TRAP_MANAGER	rjb: traps.text	*ASC	2
PARTITION/PARTITION_MANAGER	osdefs: tcb.text	ASC	2
PARTITION/PARTITION_MANAGER	rjb: xgds.text	ASC	2
PARTITION/PARTITION_MANAGER	rjb: exclusive.text	ASC	2
PARTITION/PARTITION_MANAGER	rjb: partition.text	*ASC	2

Module setdst is linkmerged into *osdebug.link to provide os support for the

MEMORY MANAGEMENT MODULES OF THE SUN OPERATING SYSTEM
SOFTWARE DOCUMENTATION INDEX

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0. Software Documentation Index
1. External Reference Specification
2. Internal Reference Specification
3. Module Interface Specification
4. Maintenance Guide
5. Stream/Linker/Link Merge Command Files
6. Source Files
7. Link Files
8. Special Test Tools

0. Software Documentation Index:

- A. Lister command file: DG:MEM.INDEX.LST
- B. Text files: DG:MEM.INDEX.TEXT

1. External Reference Specification

A separate external reference specification document was not written for the memory management modules. The ERS for these modules is included within the SUN Operating System Overview Document which can be accessed in the following files:

- A. Lister command files: ERS:OSVIEW.LST
- B. Text files:
 - ERS:OSTEXT0.TEXT
 - ERS:OSTEXT1.TEXT
 - ERS:OSTEXT2.TEXT
 - ERS:OSTEXT3.TEXT
 - ERS:OSTEXT4.TEXT
 - ERS:OSTEXT5.TEXT
 - ERS:OSTEXT6.TEXT
 - ERS:OSTEXT7.TEXT
 - ERS:OSTEXT8.TEXT
 - ERS:OSTEXT9.TEXT
 - ERS:OSTEXTA.TEXT

2. Internal Reference Specification

A separate internal reference specification document was not written for the memory management modules.

3. Module Interface Specification

- A. Lister command file: MIS:MEMMGR.MIS.LST
- B. Text file: MIS:MEMMGR.MIS.TEXT

4. Memory Management Maintenance Guide

- A. Lister command file: DG:MEM.GUIDE.LST

B. Text file: DG:MEM.GUIDE.TEXT

5. Stream/Linker/Link Merge Command Files

A. Link merge command file: DG:MEMORY.TEXT

(Used to linkmerge the separate link files of the memory management system into a single link file. This link merge command file is used in the compile stream files listed below.)

B. Compiler Stream Files

1. Compiling D# Memory Management: DG:COMP.#.DG.TEXT

2. Compiling D- Memory Management: DG:COMP.-.DG.TEXT

3. Listing Memory Management Code: DG:COMP.1.DG.TEXT

6. Source Files

Note: All source files are on the DG: volume.

A. Memory Management Modcal Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
MEMORY_BLOCK_MGR	MEMB.TEXT	*MSC	2
GATHER_MGR	GATH.TEXT	*MSC	2
SEGMENT_MOVING_MGR	SMOV.TEXT	*MSC	2
COMPACTION_MGR	COMP.TEXT	*MSC	2
PARTITION_SPACE_RECOVERY_MGR	PREC.TEXT	*MSC	2
PARTITION_CONTROL_MGR	PART.TEXT	*MSC	2
SEGMENT_EXTENSION_MGR	SEXT.TEXT	*MSC	2
ST_EXTENSION_MGR	STEN.TEXT	*MSC	2
SERIAL_MGR	SEGM.TEXT	*MSC	2
SEGMENT_MGR	SEGM.TEXT	*MSC	2
SEGMENT_BLOCK_MGR	BLKM.TEXT	*MSC	2
MEMORY_MANAGER	DMEM.TEXT	*MSC	2
SYS_SPACE_RECOVERY_MGR	SREC.TEXT	*MSC	2
MEMORY_SPACE_MGR	MMSP.TEXT	*MSC	2

B. Memory Management Focus Assembly Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
MAP_MGR	MAPL.TEXT	*ASC	2

7. Memory Management Link Files

Note: All link files with the exception of MEMOBJ.LINK are on volume DG:. MEMOBJ.LINK and MAPL.LINK are on both the OSLINK: and the OSL-: volumes.

MODULE NAME	FILE NAME	TYPE	SEGMENT
MEMORY_BLOCK_MGR	MEMB.LINK	LINK	2
GATHER_MGR	GATH.LINK	LINK	2
SEGMENT_MOVING_MGR	SMOV.LINK	LINK	2
COMPACTION_MGR	COMP.LINK	LINK	2
PARTITION_SPACE_RECOVERY_MGR	PREC.LINK	LINK	2
PARTITION_CONTROL_MGR	PART.LINK	LINK	2
SEGMENT_EXTENSION_MGR	SEXT.LINK	LINK	2
ST_EXTENSION_MGR	STEN.LINK	LINK	2
SERIAL_MGR	SEGM.LINK	LINK	2
SEGMENT_MGR	SEGM.LINK	LINK	2
SEGMENT_BLOCK_MGR	BLKM.LINK	LINK	2
MEMORY_MANAGER	DMEM.LINK	LINK	2
SYS_SPACE_RECOVERY_MGR	SREC.LINK	LINK	2
MEMORY_SPACE_MGR	MMSP.LINK	LINK	2
MAP_MGR	MAPL.LINK	LINK	2
MEMOR_MANAGER	MEMOBJ.LINK	LINK	2

8. Memory Management Special Test Tools

Note: The memory management code has four separate tests. Each test has its own source, link, linker command file, and bits file. The stream file DG:BUILD.MEM can be used to compile and assemble the test code, and build the four independent bits files. The bits can be built into loadable tests using the SYSTEM:SDFSPLIT.CODE procedure.

A.1 Test 1: Boundary Stress Test Source File

MODULE NAME	FILE NAME	TYPE	SEGMENT
BOUNDARY_TEST	DG:BNDTST	*MSC	2

A.2 Test 1: Boundary Stress Test Link File

MODULE NAME	FILE NAME	TYPE	SEGMENT
BOUNDARY_TEST	DG:BNDTST	LINK	2

A.3 Test 1: Boundary Stress Test Linker Command File

MODULE NAME	FILE NAME	TYPE	SEGMENT
BOUNDARY_TEST	DG:BNDCOMM	TEXT	

A.4 Test 1: Boundary Stress Test Bits File

MODULE NAME	FILE NAME	TYPE	SEGMENT
BOUNDARY_TEST	DG:BNDTST	BITS	

B.1 Test 2: Automated Memory Manager Acceptance Test Source File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TMEM	*MSC	2

B.2 Test 2: Automated Memory Manager Acceptance Test Link File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TMEMOBJ	LINK	2

B.3 Test 2: Automated Memory Manager Acceptance Test Linker
Command File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TMEMCOMM	TEXT	

B.4 Test 2: Automated Memory Manager Acceptance Test Bits File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TMEMOBJ	BITS	

C.1 Test 3: Memory, Buffer, Message Error Condition Test Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TMEMERR	*MSC	2
ACCEPT_MEMORY	DG:MSG_ERROR	MSC	2
ACCEPT_MEMORY	DG:BUF_ERROR	MSC	2

C.2 Test 3: Memory, Buffer, Message Error Condition Test Link File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TMEMERR	LINK	2

C.3 Test 3: Memory, Buffer, Message Error Condition Test Linker
Command File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TESTMERR	TEXT	

C.4 Test 3: Memory, Buffer, Message Error Condition Test Bits File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TMEMERR	BITS	

D.1 Test 4: Memory Management Procedure Execution Harness Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TESTMEM	*MSC	2
ACCEPT_MEMORY	DG:TESTINST	MSC	2

D.2 Test 4: Memory Management Procedure Execution Harness Link File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TESTMEM	LINK	2

D.3 Test 4: Memory Management Procedure Execution Harness Linker Command File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TESTLINK	TEXT	

D.4 Test 4: Memory Management Procedure Execution Harness Bits Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MEMORY	DG:TESTMEM	BITS	

MESSAGE MANAGEMENT MODULE OF THE SUN OPERATING SYSTEM
SOFTWARE DOCUMENTATION INDEX

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- 1. External Reference Specification
- 2. Internal Reference Specification
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- 4. Maintenance Guide
- 5. Stream/Linker/Link Merge Command Files
- 6. Source Files
- 7. Link Files
- 8. Special Test Tools

0. Software Documentation Index:

- A. Lister command file: DG:MSG.INDEX.LST
- B. Text files: DG:MSG.INDEX.TEXT

1. External Reference Specification

A separate external reference specification document was not written for the message management module. The ERS for this module is included within the MIS Document.

2. Internal Reference Specification

A separate internal reference specification document was not written for the message management module.

3. Module Interface Specification

- A. Lister command files: MIS:MSGMGR.MIS.LST
- B. Text files: MIS:MSGMGR.MIS.TEXT

4. Message Management Maintenance Guide

- A. Lister command file: DG:MSG.GUIDE.LST
- B. Text file: DG:MSG.GUIDE.TEXT

5. Stream/Linker/Link Merge Command Files

Note: The stream files which are used by the memory management modules also compile and assemble the message management module. The stream files are:

- A. Compiling D# Memory Management: DG:COMP.#.DG.TEXT
- B. Compiling D- Memory Management: DG:COMP.-.DG.TEXT
- C. Listing Memory Management Code: DG:COMP.1.DG.TEXT

6. Source Files

Note: All source files are on the DG: volume.

A. Message Management Modcal Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
MESSAGE_MANAGER	DAWNMSG.TEXT	*MSC	2

7. Message Management Link Files

Note: MSGOBJ.LINK is on the OSLINK: and the OSL-: volumes.

MODULE NAME	FILE NAME	TYPE	SEGMENT
MESSAGE_MANAGER	MSGOBJ.LINK	LINK	2

8. Message Management Special Test Tools

Note: The message management code has its own separate test module. The stream file BUILD.MSG can be used to compile and assemble the test code and build the bits file. The bits can be built into a loadable test using the SYSTEM:SDFSPLIT.CODE procedure.

A. Message Acceptance Test Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MESSAGE	DG:TMSG.TEXT	*MSC	2
ACCEPT_MESSAGE	DG:MSGTEST2.TEXT	MSC	2

B. Message Acceptance Test Link File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MESSAGE	DG:TMSGOBJ.LINK	LINK	2

C. Message Acceptance Test Linker Command File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MESSAGE	DG:TMSGCOMM.TEXT	TEXT	

D. Message Acceptance Test Bits File

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_MESSAGE	DG:TMSGOBJ.BITS	BITS	

BUFFER MANAGEMENT MODULE OF THE SUN OPERATING SYSTEM
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0. Software Documentation Index
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3. Module Interface Specification
4. Maintenance Guide
5. Stream/Linker/Link Merge Command Files
6. Source Files
7. Link Files
8. Special Test Tools

0. Software Documentation Index:

- A. Lister command file: DG:BUF.INDEX.LST
- B. Text files: DG:BUF.INDEX.TEXT

1. External Reference Specification

A separate external reference specification document was not written for the buffer management module. The ERS for these modules is included within the MIS Document.

2. Internal Reference Specification

A separate internal reference specification document was not written for the buffer management module.

3. Module Interface Specification

- A. Lister command files: MIS:BUFMGR.MIS.LST
- B. Text files: MIS:BUFMGR.MIS.TEXT

4. Buffer Management Maintenance Guide

- A. Lister command file: DG:BUF.GUIDE.LST
- B. Text file: DG:BUF.GUIDE.TEXT

5. Stream/Linker/Link Merge Command Files

Note: The stream files which are used by the memory management modules also compile and assemble the buffer management module. The stream files are:

- A. Compiling D# Memory Management: DG:COMP.#.DG.TEXT
- B. Compiling D- Memory Management: DG:COMP.-.DG.TEXT
- C. Listing Memory Management Code: DG:COMP.1.DG.TEXT

6. Source Files

Note: All source files are on the DG: volume.

A. Buffer Management Modcal Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
BUFFER_MANAGER	DAWNBUF.TEXT	*MSC	2

B. Buffer Management Focus Assembly Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
SEARCH_BUF	LLSHBUF.TEXT	*ASC	2

7. Buffer Management Link Files

Note: BUFOBJ.LINK and LLSHBUF.LINK are on both the OSLINK: and the OSL-: volumes.

MODULE NAME	FILE NAME	TYPE	SEGMENT
BUFFER_MANAGER	BUFOBJ.LINK	LINK	2
SEARCH_BUF	LLSHBUF.LINK	LINK	2

8. Buffer Management Special Test Tools

Note: The buffer management code has its own separate test module. The stream file BUILD.BUF can be used to compile and assemble the test code and build the bits file. The bits can be built into a loadable test using the SYSTEM:SDFSPLIT.CODE procedure.

A. Buffer Acceptance Test Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_BUFFER	DG:TBUF.TEXT	*MSC	2
ACCEPT_BUFFER	DG:FRAGBUF.TEXT	MSC	2
ACCEPT_BUFFER	DG:PERFBUF.TEXT	MSC	2
ACCEPT_BUFFER	DG:AUTOTST.TEXT	MSC	2
ACCEPT_BUFFER	DG:BPMODS.TEXT	MSC	2

B. Buffer Acceptance Test Link File

MODULE NAME	FILE NAME	TYPE SEGMENT
ACCEPT_BUFFER	DG:TBUFOBJ.LINK	LINK 2

C. Buffer Acceptance Test Linker Command File

MODULE NAME	FILE NAME	TYPE SEGMENT
ACCEPT_BUFFER	DG:TBUFCOMM.TEXT	TEXT

D. Buffer Acceptance Test Bits File

MODULE NAME	FILE NAME	TYPE SEGMENT
ACCEPT_BUFFER	DG:TBUFOBJ.BITS	BITS

I/O PRIMITIVES MODULE OF THE SUN OPERATING SYSTEM
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0. Software Documentation Index
1. External Reference Specification (ERS)
2. Internal Reference Specification (IRS)
3. Module Interface Specifications (MIS)
4. Maintenance Guide
5. I/O Primitives Stream files
6. I/O Primitives Source Files
7. I/O Primitives Link Files
8. I/O Primitives Test Harness Stream/Source/Link Command files

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disc (Part #S-97050-90310-1)

0. Software Documentation Index
 - A. *LISTER file: rml:rml.index.lst
 - B. TEXT file: rml:rml.index.text
1. External Reference Specification (ERS)
Covered by SUNOS Overview
2. Internal Reference Specification (IRS)
Documented in source and def. files
3. Module Interface Specification (MIS)
 - A. *LISTER file: mis:iopmis.lst
 - B. TEXT files: mis:iopmis0.text
mis:iopmis1.text
mis:iopmis2.text
mis:iopmis3.text
mis:iopmis4.text
mis:iopmis5.text
mis:iopmis6.text
mis:iopmis7.text
mis:iopmis8.text
mis:iopmis9.text
mis:iopmis10.text
4. Maintenance Guide
 - A. *LISTER file: rml:rml.maint.lst
 - B. TEXT file: rml:rml.maint.text
5. Stream Files
 - rml:comp.-.iop.text - stream file to generate D- I/O Primitives link file
 - rml:comp.#.iop.text - stream file to generate D# I/O Primitives link file
 - rml:comp.l.iop.text - stream file to generate listings of I/O Primitives
6. I/O Primitives Source Files

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
IOP_GUARANTEE	rml:gar.iopmgr.text	MSC	2
IO_PRIMITIVES	osdefs:def.iopmgr.text	MSC	2
IO_PRIMITIVES	osdefs:iopglob.text	MSC	2
IO_PRIMITIVES	osdefs:def.mpbcmd.text	MSC	2
IO_PRIMITIVES	rml:debug_def.text	MSC	2
IO_PRIMITIVES	rml:d_pound.m.text	MSC	2
IO_PRIMITIVES	rml:d_minus.m.text	MSC	2
IO_PRIMITIVES	rml:iop3.text	*MSC	2
IO_PRIMITIVES	rml:iop3a.text	MSC	2
CSG_GUARANTEE	rml:gar.csg.text	MSC	2
INCHANNEL_GUARANTEE	rml:gar.inchnl.text	MSC	2
CSG_PRIMS	osdefs:def.csg.text	MSC	2
CSG_PRIMS	rml:iop5.text	*MSC	2
CSG_PRIMS	rml:csgglob.text	MSC	2
CSG_PRIMS	rml:inchannel.text	*MSC	2
CSG_PRIMS	rml:inchannel2.text	MSC	2

B. FOCUS Assembly Language Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
IOP_GUARANTEE	rml:gar.iop.text	ASC	2
IO_PRIMITIVES	osdefs:utils.text	ASC	2
IO_PRIMITIVES	rml:debug_equ.text	ASC	2
IO_PRIMITIVES	rml:d_pound.f.text	ASC	2
IO_PRIMITIVES	rml:d_minus.f.text	ASC	2
IO_PRIMITIVES	rml:lst_equ.text	ASC	2
IO_PRIMITIVES	rml:list_on.text	ASC	2
IO_PRIMITIVES	rml:list_off.text	ASC	2
IO_PRIMITIVES	rml:iop1.text	*ASC	2
IO_PRIMITIVES	rml:iop2.text	*ASC	2
IO_PRIMITIVES	rml:iop2a.text	ASC	2
IO_PRIMITIVES	rml:io_down.text	ASC	2
IO_PRIMITIVES	rml:enq_deq.text	*ASC	2
CSG_PRIMS	rml:utils.csg.text	ASC	2
CSG_PRIMS	rml:iop4.text	*ASC	2
CSG_PRIMS	rml:oldarq.text	ASC	2
CSG_PRIMS	rml:mpb.text	*ASC	2
CSG_PRIMS	rml:smartisr.text	*ASC	2
CSG_PRIMS	rml:transact.text	*ASC	2
CSG_PRIMS	rml:event.text	*ASC	2
CSG_PRIMS	rml:error.text	*ASC	2
CSG_PRIMS	rml:down.text	*ASC	2

7. I/O Primitives Link Files

(note - other temporary files are generated & purged by the compilation stream files)

MODULE NAME	FILE NAME	TYPE	SEGMENT
ID_PRIMITIVES/CSG_PRIMS	osl-:iop.link	LINK	2
ID_PRIMITIVES/CSG_PRIMS	oslink:iop.link	LINK	2

B. I/O Primitives Test Harness Stream/Source/Link Command files

A. Test Harness Linker Command File:

rml:linkcom.text - link command file for I/O Primitives test harness

B. Test Harness Compiler/Assembler/Linker stream file:

rml:harness.text - stream file to compile and link I/O Primitives test harness

C. Test Harness MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
ACCEPT_PRIMS	rml:acc.primis.text	*MSC	6
RESOURCE	rml:def.t.enq.text	MSC	6
RESOURCE	rml:acc.enq.text	*MSC	6
TEST_IOP	rml:def.t.iop.text	MSC	6
TEST_IOP	rml:acc.iop.text	*MSC	6
TEST_IOP	rml:acc.p.id.text	MSC	6
TEST_IOP	rml:acc.p.rw.text	MSC	6
DMA_DMAR	rml:acc.p.dma.text	MSC	6
ON_INT_TESTS	rml:def.t.on.text	MSC	6
ON_INT_TESTS	rml:acc.on_int.text	*MSC	6
TEST_CSG	rml:def.t.csg.text	MSC	6
TEST_CSG	rml:acc.csg.text	*MSC	6
TEST_SMART	rml:def.t.smrt.text	MSC	6
TEST_SMART	rml:acc.smart.text	*MSC	6
YYY	rml:basic.text	*MSC	5

D. Test Harness FOCUS Assembly Language Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
TEST_SMART	rml:acc.focus.text	*ASC	6
<not applicable>	rml:segheads.text	*ASC	6

E. Test Harness Link Files and Bits File

(present only when generated by stream file HARNESS.TEXT)

FILE SYSTEM MODULES OF THE SUN OPERATING SYSTEM
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1. Software Documentation Index
2. File system documentation package.
 - External Reference Specification (ERS)
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 - Module Interface Specifications (MIS)
3. Maintenance Guide
4. File system Stream files
5. File system Source Files
6. File system Link Files
7. File system Test Harness Stream/Linker/Source/Linker files
8. Additional File System Test Harness Stream/Linker/Source/Link Files

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disc (Part #S-97050-90310-1)

1. Software Documentation Index:

- A. Lister command file: CEM:INDEX.LST
- B. Text files: CEM:INDEX.TEXT
CEM:INDEX2.TEXT

2. File system documentation package:

- A. Lister command file: CEM:IOS.DOC.LST
- B. Text files: CEM:IOS.INTRO.TEXT
CEM:IOS.DEF1.TEXT
CEM:IOS.DEF2.TEXT
CEM:IOS.DEF3.TEXT
CEM:IOS.ERS1.TEXT
CEM:IOS.MIS1.TEXT
CEM:IOS.MIS2.TEXT
CEM:IOS.MIS3.TEXT
CEM:IOS.IRS1.TEXT

3. Maintenance guide:

- A. Lister command file: CEM:MAINT.LST
- B. Text files: CEM:MAINT.TEXT

4. File System stream files:

A. Compiler stream files: CEM:COMP.-.CEM.TEXT Compile Debug-
 CEM:COMP.#.CEM.TEXT Compile Debug#
 CEM:COMP.L.CEM.TEXT Compile listings
 CEM:COMP.E.CEM.TEXT Compile errors
 CEM:COMP.-.MEH.TEXT Compile Debug-
 MEH:COMP.#.MEH.TEXT Compile Debug#
 CEM:COMP.L.CEM.TEXT Compile listings
 CEM:COMP.E.MEH.TEXT Compile errors

B. Linkmerge command files: CEM:LM.IOS.TEXT Merge IOS
 CEM:LM.DWN.TEXT Merge SDF disk format

5. IOS source files ("*" designates the file that drives the compilation of that module)

MODULE NAME	FILE NAME	TYPE	SEGMENT
CACHE_MANAGER	CEM:DEF.CACHE.TEXT	MSC	8
CACHE_MANAGER	CEM:TEX.CACHE.TEXT	*MSC	8
CACHE_MANAGER	CEM:TEX.CACHE1.TEXT	MSC	8
MEM_FAL_MANAGER	CEM:DEF.MEMFAL.TEXT	MSC	8
MEM_FAL_MANAGER	CEM:TEX.MEM.TEXT	*MSC	8
MEM_FAL_MANAGER	CEM:TEX.MEM1.TEXT	MSC	8
TABLE_MANAGER	CEM:DEF.TABLE.TEXT	MSC	8
TABLE_MANAGER	CEM:TEX.TABLE.TEXT	*MSC	8
TABLE_MANAGER	CEM:TEX.TABLE1.TEXT	MSC	8
IOS_UTILITIES	CEM:TEX.COPY.TEXT	*MSC	8
IOS_UTILITIES	CEM:TEX.COPY1.TEXT	MSC	8
IOS_GLOBALS	CEM:DEF.IOSGLB.TEXT	MSC	NA
IOS_GLOBALS	CEM:DEF.GLB2.TEXT	MSC	NA
IO_SWITCH	OSDEFS:DEF.IOS.TEXT	MSC	2
IO_SWITCH	OSDEFS:DEF.IOSUTL.TEXT	MSC	2
IO_SWITCH	CEM:DEF.IOS2.TEXT	MSC	2
IO_SWITCH	CEM:TEX.IOS.TEXT	*MSC	2
IO_SWITCH	CEM:TEX.IOS1.TEXT	MSC	2
IO_SWITCH	CEM:TEX.IOS2.TEXT	MSC	2
OVERLAPPED_IO	CEM:DEF.OVLP.TEXT	MSC	8
OVERLAPPED_IO	CEM:TEX.OVLP.TEXT	*MSC	8
OVERLAPPED_IO	CEM:TEX.OVLP1.TEXT	MSC	8
OVERLAPPED_IO	CEM:TEX.OVLP2.TEXT	MSC	8
UTILITY	CEM:DEF.IUTIL.TEXT	MSC	8
UTILITY	CEM:TEX.UTIL.TEXT	*MSC	8
UTILITY	CEM:TEX.UTIL1.TEXT	MSC	8
UTILITY	CEM:TEX.UTIL2.TEXT	MSC	8
UTILITY	CEM:TEX.UTIL3.TEXT	MSC	8
UTILITY	CEM:TEX.UTIL4.TEXT	MSC	8

VOLUME_MANAGER		CEM:DEF.VOLMGT.TEXT	MSC	8
VOLUME_MANAGER		CEM:TEX.VOL.TEXT	*MSC	8
VOLUME_MANAGER		CEM:TEX.VOL1.TEXT	MSC	8
VOLUME_MANAGER		CEM:TEX.VOL2.TEXT	MSC	8
DEV		CEM:DEF.DEV.TEXT	MSC	8
DEV		CEM:TEX.DEV.TEXT	*MSC	8
DEV		CEM:TEX.DEV1.TEXT	MSC	8
UKE_DEV		CEM:DEF.UDV.TEXT	MSC	8
UKE_DEV		CEM:TEX.UKDEV.TEXT	*MSC	8
DWN	(SDF disk format)	CEM:DEF.DWN.TEXT	MSC	10
DWN		CEM:DWN.DAM.TEXT	*MSC	10
DWN		CEM:DWN.DAM1.TEXT	MSC	10
DWN		CEM:DWN.DAM2.TEXT	MSC	10
DWN		CEM:DWN.DAM3.TEXT	MSC	10
DWN		CEM:DWN.DAM4.TEXT	MSC	10
DWN		CEM:DWN.DAM5.TEXT	MSC	10
DWN		CEM:DWN.DAM6.TEXT	MSC	10
DWN		CEM:DWN.DAM7.TEXT	MSC	10
BIT_SEARCH		CEM:DWN.BITSCH.TEXT	*ASC	8
LIF	(LIF disk format)	CEM:DEF.LIF.TEXT	MSC	33
LIF		CEM:GAR.LIF.TEXT	MSC	34
LIF		CEM:LIFTEST.TEXT	*MSC	33
LIF		CEM:LIF.DAM1.TEXT	MSC	33
LIF		CEM:LIF.DAM2.TEXT	MSC	33
LIF		CEM:LIF.DAM3.TEXT	MSC	33
LIF		CEM:LIF.DAM4.TEXT	MSC	33
GQR	(9845 disk format)	CEM:DEF.GQR.TEXT	MSC	34
GQR		CEM:GAR.GQR.TEXT	MSC	34
GQR		CEM:GQRTEST.TEXT	*MSC	34
GQR		CEM:GQR.DAM1.TEXT	MSC	34
GQR		CEM:GQR.DAM2.TEXT	MSC	34
GQR		CEM:GQR.DAM3.TEXT	MSC	34
GQR		CEM:GQR.DAM4.TEXT	MSC	34

6. File system link files:

Note: Modules compiled with "Debug-" generate link files affixed with "-".

MODULE NAME	FILE NAME	TYPE	SEGMENT
IOS (merge of all IOS modules) (merge of all IOS - modules)	OSLINK:IOS.LINK	LINK	2,8
	OSL-:IOS.LINK	LINK	2,8
DWN (merge of DWN.DAM and BITSCH) (merge of DWN.DAM- and BITSCH)	CEM:DWN.DAM.LINK	LINK	10
	CEM:DWN.DAM-.LINK	LINK	10
	OSLINK:DWN.DAM.LINK	LINK	10
	OSL-:DWN.DAM.LINK	LINK	10
LIF	OSLINK:LIF.LINK	LINK	33
	OSL-:LIF.LINK	LINK	33
GQR	OSLINK:GQR.LINK	LINK	34
	OSL-:GQR.LINK	LINK	34
BITSCH	CEM:DWN.BITSCH.LINK	LINK	10
IO_SWITCH	CEM:TEX.IOS.LINK	LINK	2
	CEM:TEX.IOS-.LINK	LINK	2
UTILITY	CEM:TEX.UTIL.LINK	LINK	8
	CEM:TEX.UTIL-.LINK	LINK	8
DEV	CEM:TEX.DEV.LINK	LINK	8
	CEM:TEX.DEV-.LINK	LINK	8
VOLUME_MANAGER	CEM:TEX.VOL.LINK	LINK	8
	CEM:TEX.VOL-.LINK	LINK	8
OVERLAPPED_IO	CEM:TEX.OVLP.LINK	LINK	8
	CEM:TEX.OVLP-.LINK	LINK	8
MEM_FAL_MANAGER	CEM:TEX.MEM.LINK	LINK	8
	CEM:TEX.MEM-.LINK	LINK	8
CACHE_MANAGER	CEM:TEX.CACHE.LINK	LINK	8
	CEM:TEX.CACHE-.LINK	LINK	8
TABLE_MANAGER	CEM:TEX.TABLE.LINK	LINK	8
	CEM:TEX.TABLE-.LINK	LINK	8
UKE_DEV	CEM:TEX.UKDEV.LINK	LINK	8
	CEM:TEX.UKDEV-.LINK	LINK	8
IOS_UTILITIES	CEM:TEX.COPY.LINK	LINK	8
	CEM:TEX.COPY-.LINK	LINK	8

7. File System Test Harness Stream/Linker/Source/Linker files

- A. Compiler stream files: CEM:BUILD.IOST.TEXT Builds X.BITS
- B. Linkmerge command file: CEM:LM.IOST.TEXT Builds IOST.LINK
- C. Linker command file: CEM:LC.IOST.TEXT For X.BITS
- D. Source files (ASC = ASSEMBLY SOURCE / MSC = MODCAL SOURCE) :

Note : All sources must be compiled D# and linked with a D# File system.

MODULE NAME	FILE NAME	TYPE	SEGMENT
	CEM:SEGHEADS.TEXT	*ASC	-
SATISFY	CEM:SATISFY.TEXT	*MSC	2
ACCEPTENCE_TEST_UTILITIES	CEM:DEF.ACTUTL.TEXT	MSC	154
ACCEPTENCE_TEST_UTILITIES	CEM:ACT.UTL.TEXT	*MSC	154
ACCEPTENCE_TEST_UTILITIES	CEM:ACT.UTL1.TEXT	MSC	154
ACCEPTENCE_TEST_UTILITIES	CEM:ACT.UTL2.TEXT	MSC	154
HARN_IOS	CEM:DEF.HRNIDS.TEXT	MSC	151
HARN_IOS	CEM:HRN.IOS.TEXT	*MSC	151
HARN_IOS	CEM:HRN.IOS1.TEXT	MSC	151
HARN_IOS	CEM:HRN.IOS2.TEXT	MSC	151
HARN_IOS	CEM:HRN.IOS3.TEXT	MSC	151
HARN_PRINT	CEM:DEF.HRNPRT.TEXT	MSC	153
HARN_PRINT	CEM:HRN.PRT.TEXT	*MSC	153
HARN_PRINT	CEM:HRN.PRT1.TEXT	MSC	153
HARN_PRINT	CEM:HRN.PRT2.TEXT	MSC	153
HARN_DUMP	CEM:DEF.HRNDMP.TEXT	MSC	152
HARN_DUMP	CEM:HRN.DMP.TEXT	*MSC	152
HARN_DUMP	CEM:HRN.DMP1.TEXT	MSC	152
HARN_DUMP	CEM:HRN.DMP2.TEXT	MSC	152
DWN_ACCEPT	CEM:DEF.ACTDWN.TEXT	MSC	157
DWN_ACCEPT	CEM:ACT.DWN.TEXT	*MSC	157
DWN_ACCEPT	CEM:ACT.DWN1.TEXT	MSC	157
DWN_ACCEPT	CEM:ACT.DWN2.TEXT	MSC	157
DWN_ACCEPT	CEM:ACT.DWN3.TEXT	MSC	157
DWN_ERROR_TESTS	CEM:ACT.ERR.TEXT	*MSC	156
DWN_ERROR_TESTS	CEM:ACT.ERR1.TEXT	MSC	156
DWN_ERROR_TESTS	CEM:ACT.ERR2.TEXT	MSC	156
DWN_BOUNDARY_TESTS	CEM:ACT.BND.TEXT	*MSC	155
DWN_BOUNDARY_TESTS	CEM:ACT.BND1.TEXT	MSC	155

E. File System Test Harness Link Files :

MODULE NAME	FILE NAME	TYPE SEGMENT
DWN_BOUNDARY_TESTS	CEM:ACT.BND.LINK	LINK 155
DWN_ACCEPT	CEM:ACT.DWN.LINK	LINK 157
DWN_ERROR_TESTS	CEM:ACT.ERR.LINK	LINK 156
ACCEPTENCE_TEST_UTILITIES	CEM:ACT.UTL.LINK	LINK 154
HARN_IOS	CEM:HRN.IOS.LINK	LINK 151
HARN_DUMP	CEM:HRN.DMP.LINK	LINK 152
HARN_PRINT	CEM:HRN.PRT.LINK	LINK 153

B. Additional File System Test Harness Stream/Linker/Source/Link Files.

A. Testing documentation package:

i. Lister command file: JCH:S.DOC.LST

ii. Text files: JCH:S.INTRO.TEXT
 JCH:S.CMDTEST.TEXT
 JCH:S.RTS.TEXT
 JCH:S.MODTEST.TEXT

B. Compiler stream file: JCH:S.MAK.TEST Builds X.BITS and LINK Files

C. Linker comand file: JCH:S.LM.TEST Builds X.BITS

D. Source listing file: JCH:S.LST.TEST Builds listings

E. Source files (ASC = ASSEMBLY SOURCE / MSC = MODCAL SOURCE) :

Note: All sources must be compiled D# and linked with a D# File System.

MODULE NAME	FILE NAME	TYPE	SEGMENT
	JCH:S.SEGHDS.TEXT	*ASC	-
HARNESSONE	JCH:S.D.HARN.TEXT	MSC	166
HARNESSONE	JCH:S.HNTEST1.TEXT	*MSC	166
HARNESSONE	JCH:S.HN1.1.TEXT	MSC	166
HARNESSONE	JCH:S.HN1.1.1.TEXT	MSC	166
HARNESSONE	JCH:S.HN1.2.TEXT	MSC	166
HARNESSTWO	JCH:S.D.HARN.TEXT	MSC	166
HARNESSTWO	JCH:S.HNTEST2.TEXT	*MSC	166
HARNESSTWO	JCH:S.HN2.1.TEXT	MSC	166
HARNESSTWO	JCH:S.HN2.2.TEXT	MSC	166
HARNESSTHREE	JCH:S.D.HARN.TEXT	MSC	166
HARNESSTHREE	JCH:S.HNTEST3.TEXT	*MSC	166
HARNESSTHREE	JCH:S.HN3.1.TEXT	MSC	166
HARNESSTHREE	JCH:S.HN3.2.TEXT	MSC	166
HARNESSFOUR	JCH:S.D.HARN.TEXT	MSC	166
HARNESSFOUR	JCH:S.HNTEST4.TEXT	*MSC	166
HARNESSFOUR	JCH:S.HN4.1.TEXT	MSC	166
HARNESSFOUR	JCH:S.HN4.2.TEXT	MSC	166
TESTALL	JCH:S.D.HTEST.TEXT	MSC	173
TESTALL	JCH:S.B.HTEST.TEXT	*MSC	173
TESTALL	JCH:S.HTEST.TEXT	MSC	173
TESTALL	JCH:S.HTEST1.TEXT	MSC	173
VARIABLES	JCH:S.D.VAR.TEXT	MSC	166
VARIABLES	JCH:S.B.VAR.TEXT	*MSC	166
VARIABLES	JCH:S.VAR.TEXT	MSC	166

CHECKER	JCH:S.D.CHECK.TEXT	MSC	167
CHECKER	JCH:S.CHECK.TEXT	*MSC	167
EDITOR	JCH:S.EDIT1.TEXT	*MSC	172
EDITOR	JCH:S.EDIT2.TEXT	MSC	172
RANDOM_TESTS_GENERATOR	JCH:S.D.RANDOM.TEXT	MSC	170
RANDOM_TESTS_GENERATOR	JCH:S.RANDOM.TEXT	*MSC	170
RANDOM_TESTS_GENERATOR	JCH:S.R.TEST1.TEXT	MSC	170
RANDOM_TESTS_GENERATOR	JCH:S.R.TEST2.TEXT	MSC	170
RANDOM_TESTS_GENERATOR	JCH:S.R.TEST3.TEXT	MSC	170
RANDOM_TESTS_GENERATOR	JCH:S.R.UTIL.TEXT	MSC	170
RESTART_SYSTEM	JCH:S.D.STORE.TEXT	MSC	170
RESTART_SYSTEM	JCH:S.STORE.TEXT	*MSC	170
RESTART_SYSTEM	JCH:S.STR.UTL1.TEXT	MSC	170
TRACE_UTILITY	JCH:S.D.TRACE.TEXT	MSC	168
TRACE_UTILITY	JCH:S.TRACE.TEXT	*MSC	168
TRACE_UTILITY	JCH:S.TRC.UTL1.TEXT	MSC	168
TRACE_UTILITY	JCH:S.TRC.UTL2.TEXT	MSC	168
TRACE_UTILITY	JCH:S.TRC.UTL3.TEXT	MSC	168
TRAIL_UTILITY	JCH:S.D.TRAIL.TEXT	MSC	168
TRAIL_UTILITY	JCH:S.TRAIL.TEXT	*MSC	168
TRAIL_UTILITY	JCH:S.TRL.UTL1.TEXT	MSC	168
TRAIL_UTILITY	JCH:S.TRL.UTL2.TEXT	MSC	168
TRAIL_UTILITY	JCH:S.TRL.UTL3.TEXT	MSC	168
DWN_VERIFY_FORMAT	JCH:S.D.VERDWN.TEXT	MSC	169
DWN_VERIFY_FORMAT	JCH:S.VDWNCODE.TEXT	*MSC	169
DWN_VERIFY_FORMAT	JCH:S.VRFY.DW1.TEXT	MSC	169
DWN_VERIFY_FORMAT	JCH:S.VRFY.DW2.TEXT	MSC	169
DWN_VERIFY_FORMAT	JCH:S.VRFY.DW3.TEXT	MSC	169
GQR_VERIFY_FORMAT	JCH:S.D.VERGQR.TEXT	MSC	169
GQR_VERIFY_FORMAT	JCH:S.VGQRCODE.TEXT	*MSC	169
GQR_VERIFY_FORMAT	JCH:S.VRFY.GQR.TEXT	MSC	169
LIF_VERIFY_FORMAT	JCH:S.D.VERLIF.TEXT	MSC	169
LIF_VERIFY_FORMAT	JCH:S.VLIFCODE.TEXT	*MSC	169
LIF_VERIFY_FORMAT	JCH:S.VRFY.LIF.TEXT	MSC	169
VERIFY_UTILITIES	JCH:S.D.VERUTL.TEXT	MSC	169
VERIFY_UTILITIES	JCH:S.VUTLCODE.TEXT	*MSC	169
VERIFY_UTILITIES	JCH:S.VRFY.UT1.TEXT	MSC	169
VERIFY_UTILITY	JCH:S.D.VERIFY.TEXT	MSC	169
VERIFY_UTILITY	JCH:S.VERIFY.TEXT	*MSC	169
VERIFY_UTILITY	JCH:S.V.DATA1.TEXT	MSC	169
VERIFY_RTN	JCH:S.D.STRVER.TEXT	MSC	167
VERIFY_RTN	JCH:S.VERIFYTT.TEXT	*MSC	167
VERIFY_RTN	JCH:S.VERIFY1.TEXT	MSC	167
QA_TEST_UTILITY	JCH:S.D.QATEST.TEXT	MSC	169

QA_TEST_UTILITY	JCH:S.QATEST.TEXT	*MSC	169
QA_TEST_UTILITY	JCH:S.QAMGR.TEXT	MSC	171
QA_TEST_UTILITY	JCH:S.RESOURCE.TEXT	MSC	169
GQR_QA_TESTER	JCH:S.D.GQRQA.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GQRTESTS.TEXT	*MSC	171
GQR_QA_TESTER	JCH:S.GQR.QA.1.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GQR.QA.2.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GQR.QA.3.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GQR.QA.4.TEXT	MSC	171
GQR_QTESTER	JCH:S.GQR.QA.5.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GQR.QA.6.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GQR.QA.7.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GQR.QA.8.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GDC.QA.1.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GAC.QA.1.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GDV.QA.1.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GDV.QA.4.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GDV.QA.5.TEXT	MSC	171
GQR_QA_TESTER	JCH:S.GDV.QA.8.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.D.LIFQA.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIFTESTS.TEXT	*MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.1.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.2.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.3.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.4.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.5.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.6.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.7.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.8.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LIF.QA.9.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LDC.QA.1.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LAC.QA.1.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LDV.QA.1.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LDV.QA.4.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LDV.QA.5.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.LDV.QA.8.TEXT	MSC	171
LIF_QA_TESTER	JCH:S.L.QA.UTL.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.D.MDFQA.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.SDFTESTS.TEXT	*MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.1.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.2.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.3.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.4.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.5.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.6.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.7.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.MDF.QA.8.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.DAC.QA.1.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.ACC.QA.1.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.DEV.QA.1.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.DEV.QA.3.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.DEV.QA.4.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.DEV.QA.5.TEXT	MSC	171
MDF_QA_TESTER	JCH:S.DEV.QA.8.TEXT	MSC	171

MDF_QA_TESTER

JCH:S.M.QA.UTL.TEXT

MSC 171

SATISFY

JCH:S.SATISFY.TEXT

*MSC 2

F: File System Test Harness Link Files:

MODULE NAME	FILE NAME	TYPE SEGMENT
-	SPARE:SEGHEADS	LINK -
HARNESSONE	SPARE:HARNTTEST1.LINK	LINK 166
HARNESSTWO	SPARE:HARNTTEST2.LINK	LINK 166
HARNESSTHREE	SPARE:HARNTTEST3.LINK	LINK 166
HARNESSFOUR	SPARE:HARNTTEST4.LINK	LINK 166
TESTALL	SPARE:HTEST.LINK	LINK 173
VARIABLES	SPARE:VAR.LINK	LINK 166
CHECKER	SPARE:CHECK.LINK	LINK 167
EDITOR	SPARE:EDITOR.LINK	LINK 172
RANDOM_TESTS_GENERATOR	SPARE:RANDOM.LINK	LINK 170
RESTART_SYSTEM	SPARE:STORE.LINK	LINK 170
TRACE_UTILITY	SPARE:TRACE.LINK	LINK 168
TRAIL_UTILITY	SPARE:TRAIL.LINK	LINK 168
DWN_VERIFY_FORMAT	SPARE:VERSDFCODE.LINK	LINK 169
GQR_VERIFY_FORMAT	SPARE:VERGQRCODE.LINK	LINK 169
LIF_VERIFY_FORMAT	SPARE:VERLIFCODE.LINK	LINK 169
VERIFY_UTILITIES	SPARE:VERUTLCODE.LINK	LINK 169
VERIFY_UTILITY	SPARE:VERIFY.LINK	LINK 169
VERIFY_RTN	SPARE:VERIFYTEST.LINK	LINK 167
QA_TEST_UTILITY	SPARE:QATEST.LINK	LINK 169
GQR_QA_TESTER	SPARE:GQRTESTS.LINK	LINK 171
LIF_QA_TESTER	SPARE:LIFTESTS.LINK	LINK 171
MDF_QA_TESTER	SPARE:GQRTESTS.LINK	LINK 171
SATISFY	SPARE:SATISFY.LINK	LINK 2

Powerup Test
SOFTWARE DOCUMENTATION INDEX

0. Software Documentation Index

- A. *LISTER file:
- B. TEXT file: bdo:fr.index.text

1. External Reference Specification (ERS)

- A. *LISTER file: bdo:pu.ers.lst
- B. TEXT file:
 - bdo:pu.index.text
 - bdo:pu.general.text
 - bdo:pu.focus.text
 - bdo:pu.keybd.text
 - bdo:pu.dim.text
 - bdo:pu.flush.text
 - bdo:pu.omni.text
 - bdo:pu.aurora.text
 - bdo:pu.odyssey.text
 - bdo:pu.quasar.text

2. Internal Reference Specification (IRS)

- A. *LISTER file:
- B. TEXT file:

3. Module Interface Specification (MIS)

- A. *LISTER file:
- B. TEXT files

4. Maintenance Guide

- A. *LISTER file:
- B. TEXT file:

5. Stream Files

- A. Linker Command File:
- B. Compiler/assembler stream files:
 - bdo:comp.#.fr.text - stream file for recompiling D# Powerup Tests
 - bdo:comp.-.fr.text - stream file for recompiling D- Powerup Tests
 - bdo:comp.l.fr.text - stream file for making listings of Powerup Tests

6. Powerup Test Source Files

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
PUT_HIF,PUT_GRAPH,PUT_MAGIC	osdefs:def.put.text	MSC	13
PUT_HIF	bdo:put.hif.text	*MSC	13
PUT_GRAPH	bdo:put.graph.text	*MSC	13
PUT_MAGIC	bdo:put.magic.text	*MSC	13

B. FOCUS Assembly Language Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
PUT_HIF	bdo:romswap.text	*ASC	13
PUT_MAGIC	bdo:magic.asm.text	*ASC	13

7. Powerup Test Link Files

(note - other temporary files are generated & purged by the compilation stream files)

MODULE NAME	FILE NAME	TYPE	SEGMENT
PUT_HIF/PUT_GRAPH/PUT_MAGIC	osl:put.link	LINK	13
PUT_HIF/PUT_GRAPH/PUT_MAGIC	oslink:put.link	LINK	13

B. Special Test Tools

A. Special Test MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
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B. Special Test FOCUS Assembly Language Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
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C. Special Test Link Files

(present only when generated by stream file HARNESS.TEXT)

DISC AND HP-IB DEVICE DRIVER MODULES OF THE SUN OPERATING SYSTEM
SOFTWARE DOCUMENTATION INDEX

CONTENTS

1. Disc DDM Software Documentation Index
2. DDM documentation package:
 - External Reference Specification (ERS)
 - Internal Reference Specification (IRS)
 - Module Interface Specifications (MIS)
3. Disc DDM maintenance guide
4. Disc and HP-IB DDM Stream files
5. Disc and HP-IB DDM Source Files
6. Disc and HP-IB DDM Link Files
7. Disc DDM Test Harness source/command files

All items referenced in this document are contained on the MASTER BASIC software disc (Part #S-97050-90310-1).

Also required for execution of Disc DDM QA tests is the disc DDM command file 5 1/4" diskette (Part #S-97050-90315-1).

The HP-IB DDM maintenance guide and QA tests can be found in the software documentation index file: DF:DP.MAINT.TEXT

1. Disc DDM Software Documentation Index:

- A. Lister command file: MEM:INDEX.LST
- B. Text files: MEM:INDEX.TEXT

2. DDM documentation package (for all disc, tape, and I/O card DDMs):

- A. Lister command file: MIS:DDM.DOC.LST
- B. Text files:
 - MIS:DDM.INTRO.TEXT \
 - MIS:DDM.DEF.TEXT \
 - MIS:DDM.ERS1.TEXT > ERS
 - MIS:DDM.ERS2.TEXT /
 - MIS:DDM.ERS3.TEXT /
 - MIS:DDM.MIS1.TEXT \
 - MIS:DDM.MIS.DF.TEXT \
 - MIS:DDM.MIS.DP.TEXT > MIS
 - MIS:DDM.MIS2.TEXT /
 - MIS:DDM.MIS3.TEXT /
 - MIS:DDM.IRS1.TEXT \ IRS
 - MIS:DDM.IRS2.TEXT /

3. Disc DDM maintenance guide:

- A. Lister command file: MEM:MAINT.LST
- B. Text files: MEM:MAINT.TEXT

4. Disc and HP-IB DDM stream files:

- A. Compiler stream files: MEM:COMP.-.TEXT Compile Debug-
MEM:COMP.#.TEXT Compile Debug#
MEM:COMP.L.TEXT Compile listings
- B. Linkmerge command files: MEM:LM.DSDDM.TEXT Merge segment 2 files
MEM:LM.DDM.TEXT Merge segment 8 files

5. Disc and HP-IB DDM source files ("*" designates the file that drives the compilation of that module)

Note that the files, MEM:MEM0INDEX.TEXT, MEM:MEM1INDEX.TEXT, MEM:MEM2INDEX.TEXT, MEM:MEM3INDEX.TEXT, and MEM:MEM4INDEX.TEXT contain descriptions of all files found on the MEM: volume (and some that only existed on the project working diskettes):

MODULE NAME	FILE NAME	TYPE	SEGMENT
DDM_MANAGER	MEM:DDMMGR.TEXT	MSC*	2
DDM_IDENTIFICATION	MEM:DDMID.TEXT	MSC*	2
DDM_INIT	MEM:DDMINIT.TEXT	MSC*	8
DDM	MEM:CS80.TEXT	MSC*	8
DDM	MEM:DS80.TEXT	MSC	8
DDM	MEM:TSINTERNAL.TEXT	MSC	8
DDM	MEM:PROC80.TEXT	MSC	8
DDM	MEM:FMT80.TEXT	MSC	8
DDM	MEM:TSHPIB.TEXT	MSC*	8
DDM	MEM:CSGHPIB.TEXT	MSC*	8
DDM	MEM:CSGDS.TEXT	MSC	8
DDM	MEM:CSGREQS.TEXT	MSC	8
DDM	MEM:RWHPIB.TEXT	MSC	8
DDM	MEM:CPHPIB.TEXT	MSC	8
DDM	MEM:HP79XX.TEXT	MSC*	35
DDM	MEM:DS79.TEXT	MSC	35
DDM	MEM:PROC79.TEXT	MSC	35
DDM	MEM:STATUS79.TEXT	MSC	35
DDM	MEM:SEEK79.TEXT	MSC	35
DDM	MEM:FMT79.TEXT	MSC	35
DDM	MEM:CDDM85.TEXT	MSC*	36
DDM	MEM:CPROC85.TEXT	MSC	36
DDM	MEM:MEMDISC.TEXT	MSC*	46

6. Disc and HP-IB DDM link files:

MODULE NAME	FILE NAME	TYPE	SEGMENT
DDM_MANAGER/DDM_IDENTIFICATION	MEM:OSDDM.LINK	LINK	2
DDM_INIT/DDM	MEM:DDM.LINK	LINK	8
DDM	MEM:HP79XX.LINK	LINK	35
DDM	MEM:CDDM85.LINK	LINK	36

7. Disc DDM Test Harness source/command files:

- A. Compiler stream file: MEM:BUILD.DDMT.TEXT Builds X.BITS
- B. Linkmerge command file: MEM:LM.DDMT.TEXT Builds DDMT.LINK
- C. Linker command file: MEM:LINKCOMM.TEXT For X.BITS
- D. Source files (ASC = ASSEMBLY SOURCE / MSC = MODCAL SOURCE):

MODULE NAME	FILE NAME	TYPE	SEGMENT
	MEM:SEGHEADS.TEXT	ASC*	-
SATISFY	MEM:SATISFY.TEXT	MSC*	2
HARNESS	MEM:HARNESS.TEXT	MSC*	3
HARNESS	MEM:CMDFILES.TEXT	MSC	3
HARNESS	MEM:ERRORS.TEXT	MSC	3
HARNESS	MEM:CMDS.TEXT	MSC	3
HARNESS	MEM:UTRAPS.TEXT	ASC*	3
BACKUP	MEM:BACKUP.TEXT	MSC*	4
DDMT	MEM:MAIN.TEXT	MSC*	5
IOCMDS	MEM:IOCMDS.TEXT	MSC*	6
IOCMDS	MEM:IOCMDS1.TEXT	MSC	6
IOCMDS	MEM:RIOP.TEXT	ASC*	6
EDITOR	MEM:ACEDIT.TEXT	MSC*	7
EDITOR	MEM:ACEDIT2.TEXT	MSC	7
DISC_TEST	MEM:DISCACCESS.TEXT	MSC*	100
DISC_TEST	MEM:DISC.TEXT	MSC*	101
DISC_TEST	MEM:REQ.TEXT	MSC	101
DISC_TEST	MEM:RSEQ.TEXT	MSC	101
DISC_TEST	MEM:LOCK.TEXT	MSC	101
STOPIO_TEST	MEM:STOPIO.TEXT	MSC*	102
STOPIO_TEST	MEM:FSTOPIO.TEXT	ASC*	102
TIMEOUT_TEST	MEM:TIMEOUT.TEXT	MSC*	103
ODDJOB_TEST	MEM:ODDJOB.TEXT	MSC*	104
REPEATREQUESTS_TEST	MEM:REPEAT.TEXT	MSC*	105
OVERFLOW_TEST	MEM:OVERFLOW.TEXT	MSC*	106
OVERFLOW_TEST	MEM:USEUP.TEXT	ASC*	106
MEMORYDISC_TEST	MEM:MDT.TEXT	MSC*	107
MAC_CONTROLLER_TEST	MEM:MAC.TEXT	MSC*	108
MULTI_DISC_TEST	MEM:MULTI.TEXT	MSC*	109
MULTI_DISC_TEST	MEM:MULTISTEPS.TEXT	MSC	109

7970 MAGNETIC TAPE DEVICE DRIVER MODULE OF THE SUN OPERATING SYSTEM
SOFTWARE DOCUMENTATION INDEX

CONTENTS

0. Software Documentation Index
1. External Reference Specification (ERS)
2. Internal Reference Specification (IRS)
3. Module Interface Specifications (MIS)
4. Maintenance Guide
5. 7970 TAPE DDM Stream files
6. 7970 TAPE DDM Source Files
7. 7970 TAPE DDM Link Files
8. 7970 TAPE DDM Test Harness Stream/Source/Link files

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disc (Part #S-97050-90310-1)

0. Software Documentation Index:

A. Lister command file: DF:dp.index.lst

B. Text files: DF:dp.index.text

1-3. DDM documentation package:

Note: See MEM:index.text for all DDM documentation
The MIS for 7970 TAPE is the file, MIS:ddm.mis.dp.text

4. Maintenance guide:

A. Lister command file: DF:dp.maint.lst

B. Text files: DF:dp.maint.text

5. 7970 TAPE DDM stream files:

A. Linker Command Files: OPTIONS:l.delta.dd for D# bits
OPT-l.delta.dd for D- bits

B. Compiler stream files: DF:c.-.tape.text Compile TAPE Debug-
DF:c.#.tape.text Compile TAPE Debug#
DF:c.l.tape.text Compile TAPE listing

6. 7970 TAPE DDM source files (*" designates the file that drives the compilation of that module)

MODULE NAME	FILE NAME	TYPE	SEGMENT
TAPE	DF:tape.text	MSC*	40
TAPE	DF:tproc.text	MSC	40
TAPE	DF:taper.text	MSC	40
TAPE	DF:tapew.text	MSC	40
TAPE	DF:gar.dp	MSC	40

7. 7970 TAPE DDM link files:

MODULE NAME	FILE NAME	TYPE	SEGMENT
TAPE	DF:tape.link	LINK	40

8. TAPE and HPIB DDM Test Harness Stream/Linker/Source/Linker files

A. Compiler stream files: DF:dp.c.tests.text Compiles D# link files

B. Linker command file: DF:dp.lcomm.text Builds SPARE:x.bits
 NOTE: MEM:build.ddmt must be run prior to linking, see MEM.index.text for details.

C. Source files (ASC = Assembly Source, MSC = MODCAL Souce):

MODULE NAME	FILE NAME	TYPE	SEGMENT
-	DF:segheads.text	ASC*	-
HPIBQ2C	DF:hpib-q2c.text	MSC*	111
HPIBMC	DF:hpib-mc.text	MSC*	112
HPIB2C	DF:hpib-2c.text	MSC*	113
HPIB2C	DF:call-ddm.text	MSC	113
HPIB2C	DF:print-req.text	MSC	113
HPIB2C	DF:hpib-ut2c.text	MSC	113
HPIB2C	DF:hpib-rw.text	MSC	113
HPIB2C	DF:hpib-sc.text	MSC	113
HPIB2C	DF:hpib-iol.text	MSC	113
HPIB2C	DF:hpib-ifc.text	MSC	113
HPIB1C	DF:hpib-1c.text	MSC*	114
HPIB1C	DF:hpib-ut1c.text	MSC	114
HPIB1C	DF:hpib-pwrp.text	MSC	114
HPIB1C	DF:hpib-seq.text	MSC	114
HPIB1C	DF:hpib-bw.text	MSC	114
HPIB1C	DF:hpib-ec.text	MSC	114
HPIBMP	DF:hpib-mp.text	MSC*	115
HPIBINUT	DF:hpib-inut.text	MSC*	116

HPIBINUT	DF: def.hpibiu.text	MSC	116
HPIBINUT	DF: hpib-int1.text	MSC	116
HPIBINUT	DF: hpib-int2.text	MSC	116
HPIBINUT	DF: hpib-int3.text	MSC	116
HPIBINT	DF: hpib-int.text	MSC*	116
HPIBINT	DF: hpib-inop.text	MSC	116
HPIBINT	DF: hpib-inoc.text	MSC	116
HPIBINT	DF: hpib-inmi.text	MSC	116
HPIBREG	DF: hpib-reg.text	MSC*	117
TAPEUT	DF: tape-ut.text	MSC*	118
TAPEUT	DF: def.tapeut.text	MSC	118
TAPERW	DF: tape-rw.text	MSC*	118
TAPEPOS	DF: tape-pos.text	MSC*	119
TAPESEQ	DF: tape-seq.text	MSC*	120
TAPEMP	DF: tape-mp.text	MSC*	121
TAPEEC	DF: tape-ec.text	MSC*	122
TAPEEC	DF: tape-eca.text	MSC	122
TAPEEC	DF: tape-eci.text	MSC	122
BUSY	DF: busy.text	MSC*	123

HP27112/SERIAL DEVICE DRIVER MODULES OF THE SUN OPERATING SYSTEM
SOFTWARE DOCUMENTATION INDEX

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0. Software Documentation Index
1. External Reference Specification (ERS)
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3. Module Interface Specifications (MIS)
4. Maintenance Guide
5. HP27112/SERIAL DDM Stream files
6. HP27112/SERIAL DDM Source Files
7. HP27112/SERIAL DDM Link Files
8. HP27112/SERIAL DDM Test Harness Stream/Source/Link files

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disc (Part #S-97050-90310-1)

0. Software Documentation Index:

- A. Lister command file: DF:df.index.lst
- B. Text files: DF:df.index.text

1-3. DDM documentation package:

Note: See MEM:index.text for all DDM documentation
The MIS for HP27112/SERIAL is the file, MIS:ddm.mis.df.text

4. Maintenance guide:

- A. Lister command file: DF:df.maint.lst
- B. Text files: DF:df.maint.text

5. HP27112/SERIAL DDM stream files:

- A. Linker Command Files: OPTIONS:l.delta.dd for D# bits
OPT-:l.delta.dd for D- bits
- B. Compiler stream files: DF:c.-.gpio.text Compile HP27112 Debug-
DF:c.-.serl.text Compile SERIAL Debug-
DF:c.#.gpio.text Compile HP27112 Debug#
DF:c.#.serl.text Compile SERIAL Debug#
DF:c.l.gpio.text Compile HP27112 listing
DF:c.l.serl.text Compile SERIAL listing

6. HP27112/SERIAL DDM source files ("*" designates the file that drives the compilation of that module)

MODULE NAME	FILE NAME	TYPE	SEGMENT
HP27112	DF:csggpio.text	MSC*	37
SERIAL	DF:csgserl.text	MSC*	38
SERIAL	DF:csgserlcom.text	MSC	38
SERIAL	DF:csgserlmis.text	MSC	38
SERIAL	DF:csgserlreg.text	MSC	38

7. HP27112/SERIAL DDM link files:

MODULE NAME	FILE NAME	TYPE	SEGMENT
HP27112	DF:csggpio.link	LINK	37
SERIAL	DF:csgserl.link	LINK	38

8. HP27112/SERIAL DDM Test Harness Stream/Linker/Source/Linker files

A. Compiler stream files: DF:df.c.tests.text Compiles D# link files

B. Linker command file: DF:df.lcomm.text Builds SPARE:x.bits

NOTE: MEM:build.ddmt must be run prior to linking, see MEM.index.text for details.

C. Source files (ASC = Assembly Source, MSC = MODCAL Souce):

MODULE NAME	FILE NAME	TYPE	SEGMENT
-	DF:segheads.text	ASC*	-
PRINTER	DF:prntrtst.text	MSC*	130
PTAPE-READER	DF:ptrdrstst.text	MSC*	131
GPIO	DF:gt-gpio.text	MSC*	132
GPIO	DF:gt-dcmnt.text	MSC*	132
GPIO	DF:gt-dcmnu.text	MSC*	132
GPIO	DF:gt-util.text	MSC*	132
GPIO	DF:gt-ddmvr.text	MSC*	132
GPIO	DF:gt-pwrup.text	MSC*	132
GPIO	DF:gt-seqnc.text	MSC*	132
GPIO	DF:gt-check.text	MSC*	132
GPIO	DF:gt-iotst.text	MSC*	132
GPIO	DF:gt-rgstr.text	MSC*	132
GPIO	DF:gt-loopb.text	MSC*	132
MULTI-PROC	DF:mproc.text	MSC*	133
SERL-REG	DF:serl-reg.text	MSC*	134

OS JULIAN TIME SUPPORT
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6. Source Files
7. Link Files
8. Special Test Tools

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disk (Part #S-97050-90310-1)

0. Software Documentation Index (this file)
 - A. *LISTER file: rrr:osrtc.indx.lst
 - B. TEXT file: rrr:osrtc.indx.text
1. External Reference Specification (ERS)
none
2. Internal Reference Specification (IRS)
none
3. Module Interface Specifications (MIS)
 - A. *LISTER file: mis:mis.rtc.lst
 - B. TEXT files: mis:mis.rtc1.text
mis:def.osrtc.text
mis:def.rtc.text
mis:def.aprtc.text
mis:mis.rtc3.text
4. Maintenance Guide

All source files are listed below in part 6.
Produce the link file by compiling and then assembling.
The test programs are: (these are on the BASIC test disk)

 - BASIC/DICK/T~RTCMF
 - BASIC/DICK/T~APRTC
5. Stream Files
 - A. Linker Command Files:

This module is included in the SUN operating system. The *linkmerge command file is:

 - osl-:oslink.text
 - B. Compiler Stream Files:

rrr:stream.os-.text (produces d- link file)

rrr:stream.os#.text (produces d# link file)
 rrr:stream.osl.text (produces listing)

The following tables list each source, link, or stream file archived for this Product. The table is a fixed format as follows:

Col 1-40 - Module name
 Col 41-67 - File name
 Col 68-71 - File type code:
 MSC (Modcal Source)
 ASC (Focus Assembler Source)
 LINK (Link file)
 * in column 68 indicates the file which "drives"
 the compile or assembly process
 Col 73-74 - Target Segment

6. Source Files

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE SEGMENT
OSRTC	rrr:c.osrtc.text	*MSC 2
OSRTC	osdefs:def.osrtc.text	MSC 2
OSRTC	rrr:osrtc.text	MSC 2

7. Link Files

MODULE NAME	FILE NAME	TYPE SEGMENT
OSRTC	osl:-osrtc.link	LINK 2

B. Special Test Tools:

A. Special Test MODCAL Source

MODULE NAME	FILE NAME	TYPE SEGMENT
none		

B. Special Test FOCUS ASSEMBLER Source

MODULE NAME	FILE NAME	TYPE SEGMENT
none		

C. Special Test LINK Files

MODULE NAME	FILE NAME	TYPE SEGMENT
none		

IO OPTION
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- 7. Link Files
- 8. Special Test Tools

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disk (Part # A-97050-90310-1)

- 0. Software Documentation Index
 - A. *LISTER file : ers:io.index.lst
 - B. TEXT file : ers:io.index.text
- 1. External Reference Specification (ERS)
 - A. *LISTER file : ers:ioers.lst
 - B. TEXT file : ers:ioers1.wc.text
ers:ioers1.gf.text
ers:ioers2.wc.text
ers:ioers3.do.text
ers:ioers4.gf.text
- 2. Internal Reference Specification (IRS)
 - A. *LISTER file : gdf:ioirs.lst
 - B. TEXT files : gdf:ioirs.over.text
gdf:ioirs.rcio.text
gdf:ioirs.jtab.text
gdf:ioirs.stat.text
gdf:ioirs.path.text
gdf:ioirs.kywd.text
gdf:ioirs.mods.text
gdf:ioirs.atnm.text
gdf:ioirs.mdoa.text
gdf:ioirs.dbfd.text
gdf:ioirs.bufl.text
gdf:ioirs.buflc.text
gdf:ioirs.xfr.text
gdf:ioirs.age.text
gdf:ioirs.ext.text

3. Module Interface Specification (MIS)

For most of the IO OPTION there are no specific MIS files but sufficient documentation exists in the def files to be considered as such. Exceptions are enumerated below.

- A. Generic parser table MIS describes IO.TABLES
- B. hlc:ddmcr.t.mis.lst
 hlc:ddmcr.t.mis.text Crt ddm mis file
 hlc:ddmkbd.mis.lst
 hlc:ddmkbd.mis.text Keyboard ddm mis file

4. Maintenance Guide

- A. *LISTER file : mis:mrguide.io.lst
- B. TEXT file : mis:mrguide.io.text

5. Stream/Linker Command Files

A. Linker Command Files

- 1. opt-:l.delta.io IO commands for Debug - bits file
- 2. options:l.delta.io IO commands for Debug # bits file

B. Link Merge Command Files

- 1. twt:lm.bitops.text Link commands for bitops link file
- 2. gdf:lm.format.text Link commands for format link file

C. Compiler Stream Files

- 1. gdf:build.mf.text Creates the compiler stream files from each persons piece of the mainframe IO.
- 2. gdf:iostrmsg.io.text Messages for the compiler stream files.
- 3. wfc:stream.mf.text Individual mainframe compile and assembly streams
 wfc:stream.mf1.text
 gdf:stream.mf.text
 jch:stream.mf.text
- 4. gdf:comp.mf-.text These are the output of gdf:build.mf.text
 gdf:comp.mf#.text
 gdf:comp.mf1.text
- 5. gdf:build.io.text Creates the compiler stream files from each persons piece of the mainframe IO.
- 6. wfc:stream.io.text Individual mainframe compile and assembly streams
 wfc:stream.iol.text
 hlc:stream.io#.text
 hlc:stream.io-.text
 hlc:stream.iol.text
 gdf:stream.io.text
 jch:stream.io.text
 twt:stream.io.text
 rrr:stream.io.text
 rrr:stream.iol.text
- 7. gdf:comp-.io.text These are the output of gdf:build.io.text
 gdf:comp.#.io.text
 gdf:comp.l.io.text

The following tables list each source, link, or stream file archived for the IO Option. The table is a fixed format as follows:
 Col 1-40 - Module name

Col 41-67 - File name
 Col 68-71 - File type code:
 MSC (Modcal Source)
 ASC (Focus Assembler Source)
 TXT (Modus text file)
 LINK (Link file)
 3000 (HP3000 text file)
 * in column 68 indicates the file which "drives"
 the compile or assembly process
 Col 73-74 - Target Segment

6. Source Files

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
IOADDS	wfc:c.ioadds.text	*MSC	3
IOADDS	osdefs:def.ioadds.text	MSC	3
IOADDS	error:err.ioadds.text	MSC	3
IOADDS	wfc:p1.ioadds.text	MSC	3
IOASSN	wfc:c.ioassn.text	*MSC	3
IOASSN	osdefs:def.ioassn.text	MSC	3
IOASSN	osdefs:dei.ioassn.text	MSC	3
IOASSN	error:err.ioassn.text	MSC	3
IOASSN	wfc:p1.ioassn.text	MSC	3
IOASSN	wfc:p2.ioassn.text	MSC	3
IOEXEC	wfc:c.ioexec.text	*MSC	3
IOEXEC	osdefs:def.ioexec.text	MSC	3
IOEXEC	error:err.ioexec.text	MSC	3
IOEXEC	wfc:p1.ioexec.text	MSC	3
PRTALL	wfc:c.prtall.text	*MSC	3
PRTALL	osdefs:def.prtall.text	MSC	3
PRTALL	wfc:p1.prtall.text	MSC	3
DEV	wfc:c.dev.text	*MSC	3
DEV	osdefs:def.dev.text	MSC	3
DEV	error:err.dev.text	MSC	3
DEV	wfc:p1.dev.text	MSC	3
DEV	wfc:p2.dev.text	MSC	3
IOTERM	wfc:c.ioterm.text	*MSC	3
IOTERM	osdefs:def.ioterm.text	MSC	3
IOTERM	wfc:p1.ioterm.text	MSC	3
PRINT	gdf:c.print.text	*MSC	3
PRINT	osdefs:def.print.text	MSC	3
PRINT	gdf:print.text	MSC	3
IMAGE	gdf:c.image.text	*MSC	3
IMAGE	osdefs:def.image.text	MSC	3
IMAGE	osdefs:def.image2.text	MSC	3
IMAGE	error:err.gpio.text	MSC	3
IMAGE	gdf:im.compile.text	MSC	3

IMAGE	gdf:im.interp.text	MSC	3
FORMAT	gdf:c.format1.text	*MSC	3
FORMAT	error:err.fmt.text	MSC	3
AGEMGR	jch:c.agemgr.text	*MSC	3
AGEMGR	osdefs:def.agemgr.text	MSC	3
AGEMGR	gar:gar.agemgr.text	MSC	3
AGEMGR	jch:agemgr.s.text	MSC	3
INITSEG22	wfc:c.initsg22.text	*MSC	22
IOATTS	wfc:c.ioatts.text	*MSC	22
IOATTS	osdefs:def.ioatts.text	MSC	22
IOATTS	error:err.ioatts.text	MSC	22
IOATTS	wfc:p1.ioatts.text	MSC	22
IOMISC	wfc:c.iomisc.text	*MSC	22
IOMISC	osdefs:def.iomisc.text	MSC	22
IOMISC	error:err.iomisc.text	MSC	22
IOMISC	wfc:p1.iomisc.text	MSC	22
IOMISC	wfc:p2.iomisc.text	MSC	22
OUTPUT	gdf:c.output.text	*MSC	22
OUTPUT	osdefs:def.output.text	MSC	22
OUTPUT	gdf:output.text	MSC	22
ENTER	gdf:c.enter.text	*MSC	22
ENTER	osdefs:def.enter.text	MSC	22
ENTER	gdf:enter.text	MSC	22
EIMAGE	gdf:c.eimage.text	*MSC	22
EIMAGE	osdefs:def.eimage.text	MSC	22
EIMAGE	gdf:eim1.text	MSC	22
EIMAGE	gdf:eim2.text	MSC	22
STRING	gdf:c.string.text	*MSC	22
STRING	osdefs:def.string.text	MSC	22
STRING	gdf:string.text	MSC	22
IO_ON	gdf:c.io_on.text	*MSC	22
IO_ON	osdefs:def.io_on1.text	MSC	22
IO_ON	osdefs:def.io_on2.text	MSC	22
IO_ON	error:err.gfio.text	MSC	22
IO_ON	gar:gar.gdf.text	MSC	22
IO_ON	gdf:on1.text	MSC	22
IO_ON	gdf:on2.text	MSC	22
IO_ON	gdf:on3.text	MSC	22
HPIB	gdf:c.hpib.text	*MSC	22
HPIB	osdefs:def.hpib.text	MSC	22
HPIB	gdf:hpib.utils.text	MSC	22
HPIB	gdf:hpib.stmts.text	MSC	22
HPIB	gdf:hpib.send.text	MSC	22
IO_WAIT	gdf:c.io_wait.text	*MSC	22
IO_WAIT	optdefs:def.io_wait.text	MSC	22

IO_WAIT	gdf:mod.iowait.text	MSC	22
BUF	jch:c.buf.text	*MSC	22
BUF	osdefs:def.buf.text	MSC	22
BUF	error:err.buf.text	MSC	22
	jch:buf.s.text	MSC	22
XFRMGR	jch:c.xfrmgr.text	*MSC	22
XFRMGR	osdefs:def.xfrmgr.text	MSC	22
XFRMGR	error:err.xfrmgr.text	MSC	22
XFRMGR	jch:xfrmgr1.s.text	MSC	22
XFRMGR	jch:xfrmgr2.s.text	MSC	22
XFRMGR	jch:xfrmgr3.s.text	MSC	22
EXTMGR	jch:c.extmgr.text	*MSC	22
EXTMGR	osdefs:def.extmgr.text	MSC	22
EXTMGR	error:err.extmgr.text	MSC	22
EXTMGR	jch:extmgr.s.text	MSC	22
BITOPS	twf:c.bitops.text	*MSC	22
BITOPS	optdefs:def.bitops.text	MSC	22
BITOPS	twf:bitops.text	MSC	22
IO.ROM	rrr:c.io.rom.text	*MSC	22
IO.ROM	optdefs:def.iocon.text	MSC	22
IO.ROM	error:err.iocomp.text	MSC	22
IO.ROM	rrr:io.rom.text	MSC	22
IO.ROM	rrr:io.con.text	MSC	22
IO.ROM	rrr:io.parser.text	MSC	22
IO.ROM	rrr:io.apply.text	MSC	22
IO.ROM	rrr:io.comput1.text	MSC	22
IO.ROM	rrr:io.comp1.text	MSC	22
IO.ROM	rrr:io.comp2.text	MSC	22
DDMKBD	hlc:c.ddmkbd.text	*MSC	22
DDMKBD	optdefs:def.ddmkbd.text	MSC	22
DDMKBD	hlc:mod.ddmkbd.text	MSC	22
DDMCRT	hlc:c.ddmcr.t.text	*MSC	22
DDMCRT	optdefs:def.ddmcr.t.text	MSC	22
DDMCRT	hlc:mod.ddmcr.t.text	MSC	22

B. FOCUS ASSEMBLER Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
IOTAB1	wfc:a.iotab1.text	*ASC	3
ARRAYS	gdf:a.arrays.text	*ASC	3
FORMAT	gdf:a.format2.text	*ASC	3
IOROMPRIM	jch:a.iorprim.text	*ASC	3

IOROMPRIM	jch:iorprim.s.text	ASC	3
OAB2	wfc:a.iotab2.text	*ASC	22
IO.ASMB	gdf:a.io.asmb.text	*ASC	22
XFRPRIM	jch:a.xfrprim.text	*ASC	22
XFRPRIM	jch:xfrprim.s.text	ASC	22
BITOPS	twt:lsr.text	ASC	22
IO.TABLES	rrr:io.tables.text	*ASC	22
IO.TABLES	rrr:io.tab.text	ASC	22
IO.TABLES	rrr:io.keys.text	ASC	22
IO.TABLES	optdefs:def.iotab.text	MSC	22
(above def file is for other modules use, it is not assembled)			
IO.TABLES	ioqram.dick.dawn	3000	22
IO.TABLES	rrr:io.ksource.text	TXT	22
(above two files are original source for io.tab and io.keys, they are not assembled)			

7. Link Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
IOADDS	osl:ioadds.link	LINK	3
OAB1	osl:iotab1.link	LINK	3
IOASSN	osl:ioassn.link	LINK	3
IOEXEC	osl:ioexec.link	LINK	3
PRTALL	osl:prtall.link	LINK	3
IOTERM	osl:ioterm.link	LINK	3
ARRAYS	osl:arrays.link	LINK	3
PRINT	osl:print.link	LINK	3
IMAGE	osl:image.link	LINK	3
FORMAT	osl:format.link	LINK	3
IOROMPRIM	osl:ioromprim.link	LINK	3
AGEMGR	osl:agemgr.link	LINK	3
INITSEG22	opt:--initseg22.link	LINK	22
IOTAB2	opt:--iotab2.link	LINK	22
IOATTS	opt:--ioatts.link	LINK	22
IOMISC	opt:--iomisc.link	LINK	22
OUTPUT	opt:--output.link	LINK	22
ENTER	opt:--enter.link	LINK	22
EIMAGE	opt:--eimage.link	LINK	22
STRING	opt:--string.link	LINK	22
IO_ON	opt:--io_on.link	LINK	22
HPIB	opt:--hpib.link	LINK	22
IO_WAIT	opt:--io_wait.link	LINK	22
IO.ASMB	opt:--io.asmb.link	LINK	22
BUF	opt:--buf.link	LINK	22
YEMGR	opt:--xfrmgr.link	LINK	22
EMGR	opt:--extmgr.link	LINK	22
XFRPRIM	opt:--xfrprim.link	LINK	22
BITOPS	opt:--bitops.link	LINK	22
IO.TABLES	opt:--io.tables.link	LINK	22

IO.ROM
LINKED
LINK CRT

opt-:io.rom.link LINK 22
opt-:ddokbd.link LINK 22
opt-:ddmcrct.link LINK 22

8. Special Test Tools

9. Other Tools

gdf:makearray.text Pascal program to generate tables in a.arrays.text

3D GRAPHICS LIBRARY OPTION (97052)
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6. GRAPHICS Source Files
7. GRAPHICS Link Files
8. Special Test Tools

Unless otherwise specified, all items referenced in this document are contained on the MASTER BASIC software disk (Part #S-97050-90310-1)

0. Software Documentation Index
 - A. *LISTER file: ers:gr.index.lst
 - B. TEXT file: ers:gr.index.text

External Reference Specification (ERS)

- A. *LISTER file: ers:gr.ers1.lst
ers:gr.ers2.lst
- B. TEXT files: ers:gr.index1.text
ers:gr.ers1.text
ers:gr.ers2.text
ers:gr.index2.text
ers:gr.ers3.text
ers:gr.ers4.text
ers:gr.ers5.text
ers:gr.ers6.text
ers:gr.ers7.text
ers:gr.ers8.text

2. Internal Reference Specification

A. FARSTAR IRS

- (1) *LISTER file: ers:g_irs.lst
- (2) TEXT files: ers:g_irs.fn1
ers:g_irs.fn2
ers:g_irs.fn3
ers:g_irs.mod
ers:g_irs.stmt
ers:g_irs.misc
ers:g_irs.tst

- B. FARSTAR Viewing Derivations (DRAWING #A-97052-90310-1)

- C. FARSTAR System Structure Diagram (DRAWING #A-97052-90311-1)

3. Module Interface Specifications (MIS)

Separate MIS documents were not produced for the graphics option. Each module contains a block of documentation (usually in the def. file) to specify interface requirements.

4. Maintenance Guide

- A. *LISTER file: ers:gr.maint.lst
- B. TEXT files: ers:gr.maint.text

5. GRAPHICS Stream Files

A. Linker Command Files:

- 1. grl#:l.delta.gr - Graphics commands for Debug# bits file
- 2. grl-:l.delta.gr - Graphics commands for Debug# bits file

B. Compiler Stream Files

- 1. system:comp.#.gr.text - Stream file for recompiling D# graphics
- 2. system:comp.-.gr.text - Stream file for recompiling D- graphics
- 3. system:comp.l.gr.text - Stream file for making listing of graphics

The following tables list each source, link, or stream file archived for the GRAPHICS Option. The table is a fixed format as follows:

- Col 1-40 - Module name
- Col 41-67 - File name
- Col 68-71 - File type code:
 - MSC (Modcal Source)
 - ASC (Focus Assembler Source)
 - LINK (Link file)
- * in column 68 indicates the file which "drives" the compile or assembly process
- Col 73-74 - Target Segment

6. GRAPHICS Source Files

A. MODCAL Source Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
GRAPHICS ORIGINS	optdefs:orgs.text	MSC	11
GRAPHICS GUARANTEES	gar:gar.gr.text	MSC	11
GRAPHICS_ERRORS	error:err.gr.text	MSC	11
GSYSTEM_INTERFACE	xb:c.grom.text	*MSC	11
GSYSTEM_INTERFACE	optdefs:def.grom.text	MSC	11
GSYSTEM_INTERFACE	xb:imp.grom.text	MSC	11
GSYNTAX	xb:c.gsyn.text	*MSC	11
GSYNTAX	optdefs:def.gsyn.text	MSC	11
GSYNTAX	xb:imp.gsyn.text	MSC	11
GCOMPILE	xb:c.gcomp.text	*MSC	11
GCOMPILE	optdefs:def.gcomp.text	MSC	11
GCOMPILE	xb:imp.gcomp.text	MSC	11

COMPILE_VIEWING	xb:c.c_view.text	*MSC 11
COMPILE_VIEWING	optdefs:def.c_view.text	MSC 11
COMPILE_VIEWING	xb:imp.c_view.text	MSC 11
COMPILE_OUTPUT	xb:c.c_out.text	*MSC 11
COMPILE_OUTPUT	optdefs:def.c_out.text	MSC 11
COMPILE_OUTPUT	xb:imp.c_out.text	MSC 11
COMPILE_UTILITY	xb:c.c_util.text	*MSC 11
COMPILE_UTILITY	optdefs:def.c_util.text	MSC 11
COMPILE_UTILITY	xb:imp.c_util.text	MSC 11
COMPILE_ATTRIBUTE	xb:c.c_attr.text	*MSC 11
COMPILE_ATTRIBUTE	optdefs:def.c_attr.text	MSC 11
COMPILE_ATTRIBUTE	xb:imp.c_attr.text	MSC 11
COMPILE_INPUT	xb:c.c_in.text	*MSC 11
COMPILE_INPUT	optdefs:def.c_in.text	MSC 11
COMPILE_INPUT	xb:imp.c_in.text	MSC 11
COMPILE_MISC	xb:c.c_misc.text	*MSC 11
COMPILE_MISC	optdefs:def.c_misc.text	MSC 11
COMPILE_MISC	xb:imp.c_misc.text	MSC 11
COMPILE_CONTROL	xb:c.c_cntr.text	*MSC 11
COMPILE_CONTROL	optdefs:def.c_cntr.text	MSC 11
COMPILE_CONTROL	xb:imp.c_cntr.text	MSC 11
GBASIC_INTERFACE	xb:c.gbint.text	*MSC 11
GBASIC_INTERFACE	optdefs:def.gbint.text	MSC 11
GBASIC_INTERFACE	xb:imp.gbint.text	MSC 11
GGLOBALS	kwl:c.gexec.text	*MSC 11
GGLOBALS	optdefs:def.gexec.text	MSC 11
GCONTROL	kwl:c.cntrl.text	*MSC 11
GCONTROL	optdefs:def.cntrl.text	MSC 11
GCONTROL	kwl:imp.cntrl.text	MSC 11
PLOT_FCTS	adw:c.plot.text	*MSC 11
PLOT_FCTS	optdefs:def.plot.text	MSC 11
PLOT_FCTS	adw:imp.plot.text	MSC 11
GRAPHICAL_TEXT_FCTS	adw:c.gtxt.text	*MSC 11
GRAPHICAL_TEXT_FCTS	optdefs:def.gtxt.text	MSC 11
GRAPHICAL_TEXT_FCTS	adw:imp.gtxt.text	MSC 11
AXES_AND_GRID	xb:c.axes.text	*MSC 11
AXES_AND_GRID	optdefs:def.axes.text	MSC 11
AXES_AND_GRID	xb:imp.axes.text	MSC 11
PLOT_ARRAY	xb:c.parray.text	*MSC 11
PLOT_ARRAY	optdefs:def.parray.text	MSC 11
PLOT_ARRAY	xb:imp.parray.text	MSC 11
OUTPUT_PRIMITIVES	adw:c.prim.text	*MSC 11

OUTPUT_PRIMITIVES	optdefs: def.prim.text	MSC 1.1
OUTPUT_PRIMITIVES	adw: imp.prim1.text	MSC 1.1
OUTPUT_PRIMITIVES	adw: imp.prim2.text	MSC 1.1
OUTPUT_PRIMITIVES	adw: imp.prim3.text	MSC 1.1
OUTPUT_PRIMITIVES	adw: imp.prim4.text	MSC 1.1
VIEW_TRANSFORM	adw: c.vwxfm.text	*MSC 1.1
VIEW_TRANSFORM	optdefs: def.vwxfm.text	MSC 1.1
VIEW_TRANSFORM	adw: imp.vwxfm1.text	MSC 1.1
VIEW_TRANSFORM	adw: imp.vwxfm2.text	MSC 1.1
VIEW_TRANSFORM	adw: imp.vwxfm3.text	MSC 1.1
VIEWING_MATRICES	adw: c.vwmat.text	*MSC 1.1
VIEWING_MATRICES	optdefs: def.vwmat.text	MSC 1.1
VIEWING_MATRICES	adw: imp.vwmat1.text	MSC 1.1
VIEWING_MATRICES	adw: imp.vwmat2.text	MSC 1.1
VIEWING_MATRICES	adw: imp.vwmat3.text	MSC 1.1
VIEWING_MATRICES	adw: imp.vwmat4.text	MSC 1.1
VIEW_SPECIFICATION	adw: c.vwspc.text	*MSC 1.1
VIEW_SPECIFICATION	optdefs: def.vwspc.text	MSC 1.1
VIEW_SPECIFICATION	adw: imp.vwspc1.text	MSC 1.1
VIEW_SPECIFICATION	adw: imp.vwspc2.text	MSC 1.1
ATTRIBUTES	adw: c.attrs.text	*MSC 1.1
ATTRIBUTES	optdefs: def.attrs.text	MSC 1.1
ATTRIBUTES	adw: imp.attrs.text	MSC 1.1
CHAR_TABLES	optdefs: def.chrtab.text	MSC 1.1
FONT_TABLES	xb: c.font.text	*MSC 1.1
FONT_TABLES	optdefs: def.font.text	MSC 1.1
FONT_TABLES	xb: imp.font.text	MSC 1.1
GOUTPUT	kwl: c.out.text	*MSC 1.1
GOUTPUT	optdefs: def.out.text	MSC 1.1
GOUTPUT	kwl: imp.out.text	MSC 1.1
PLOTTING_FUNCTIONS	kwl: c.pfct.text	*MSC 1.1
PLOTTING_FUNCTIONS	optdefs: def.pfct.text	MSC 1.1
PLOTTING_FUNCTIONS	kwl: imp.pfct.text	MSC 1.1
GINPUT	xb: c.in.text	*MSC 1.1
GINPUT	optdefs: def.in.text	MSC 1.1
GINPUT	xb: imp.in.text	MSC 1.1
GKEY_SUPPORT	xb: c.gkey.text	*MSC 1.1
GKEY_SUPPORT	optdefs: def.gkey.text	MSC 1.1
GKEY_SUPPORT	xb: imp.gkey.text	MSC 1.1
RASTER_DUMP	xb: c.dump.text	*MSC 1.1
RASTER_DUMP	optdefs: def.dump.text	MSC 1.1
RASTER_DUMP	xb: imp.dump.text	MSC 1.1
DRV_MGR_SYS_GDS	kwl: imp.drvmgr.text	MSC 1.1
DRIVER_MANAGER	kwl: c.drvmgr.text	*MSC 1.1

DRIVER_MANAGER	optdefs: def.didd.text	MSC 11
DRIVER_MANAGER	optdefs: def.drvmgr.text	MSC 11
DRIVER_MANAGER	kwl: imp.drvmgr.text	MSC 11
DRIVER_UTILITIES	kwl: c.dutil.text	*MSC 11
DRIVER_UTILITIES	optdefs: def.dutil.text	MSC 11
DRIVER_UTILITIES	kwl: imp.dutil.text	MSC 11
IOSYNC	kwl: c.dutil.text	*MSC 11
IOSYNC	optdefs: def.dutil.text	MSC 11
IOSYNC	kwl: imp.dutil.text	MSC 11
CHAR_IO_UTIL	kwl: c.chrio.text	*MSC 11
CHAR_IO_UTIL	optdefs: def.chrio.text	MSC 11
CHAR_IO_UTIL	kwl: imp.chrio.text	MSC 11
HPGL_UTILITIES	kwl: c.uhpgl.text	*MSC 11
HPGL_UTILITIES	optdefs: def.uhpgl.text	MSC 11
HPGL_UTILITIES	kwl: imp.uhpgl.text	MSC 11
HPGL_DRIVER	kwl: c.hppl.text	*MSC 11
HPGL_DRIVER	optdefs: def.hppl.text	MSC 11
HPGL_DRIVER	kwl: imp.hppl.text	MSC 11
ARROW_KEYS_DRIVER	xb: c.arrow.text	*MSC 11
ARROW_KEYS_DRIVER	optdefs: def.arrow.text	MSC 11
ARROW_KEYS_DRIVER	xb: imp.arrow.text	MSC 11
CRT_SYS_GDS	optdefs: def.cglob.text	MSC 43
CRT_CONTROL	kwl: c.ccntl.text	*MSC 43
CRT_CONTROL	optdefs: def.ccntl.text	MSC 43
CRT_CONTROL	kwl: imp.ccntl.text	MSC 43
CRT_GLOBALS	kwl: c.cglob.text	*MSC 43
CRT_GLOBALS	optdefs: def.cglob.text	MSC 43
CRT_GLOBALS	kwl: imp.cglobi.text	MSC 43
CRT_DRIVER	kwl: c.cdrvr.text	*MSC 43
CRT_DRIVER	optdefs: def.cdrvr.text	MSC 43
CRT_DRIVER	kwl: imp.cdrvr.text	MSC 43
CRT_PLOTTING	kwl: c.cplot.text	*MSC 43
CRT_PLOTTING	optdefs: def.cplot.text	MSC 43
CRT_PLOTTING	kwl: imp.cplot.text	MSC 43
CRT_SPECIALS	kwl: c.cspec.text	*MSC 43
CRT_SPECIALS	optdefs: def.cspec.text	MSC 43
CRT_SPECIALS	kwl: imp.cspec.text	MSC 43
CRT_AREA_FILL	xb: c.cfill.text	*MSC 43
CRT_AREA_FILL	optdefs: def.cfill.text	MSC 43
CRT_AREA_FILL	xb: imp.cfill.text	MSC 43
LIGHT_PEN_DRIVER	kwl: c.lp.text	*MSC 43
LIGHT_PEN_DRIVER	optdefs: def.lp.text	MSC 43
LIGHT_PEN_DRIVER	kwl: imp.lp.text	MSC 43

LIGHT_PEN_INTERRUPT_HANDLER	kwl:c.lpint.text	*MSC	43
LIGHT_PEN_INTERRUPT_HANDLER	optdefs:def.lpint.text	MSC	43
LIGHT_PEN_INTERRUPT_HANDLER	adw:imp.lpint.text	MSC	43
LP_TABLES	adw:c.pred.text	*MSC	43
LP_TABLES	optdefs:def.pred.text	MSC	43
LP_TABLES	adw:imp.pred.text	MSC	43

B. FOCUS ASSEMBLER Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
GRAPHICS ORIGINS	optdefs:assmorgs.text	*ASC	11
KEYWORD_AND_PARSER_TABLES	xb:imp.grtab.text	*ASC	11
CHAR_TABLES	adw:imp.stand.text	*ASC	11
CHAR_TABLES	adw:imp.euro.text	*ASC	11
CHAR_TABLES	adw:imp.kata.text	*ASC	11
CRT_GLOBALS	imp.cglob2.text	*ASC	43

7. GRAPHICS Link Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
SYSTEM_INTERFACE	grl-:grow.link	LINK	11
GSYNTAX	grl-:gsyn.link	LINK	11
KEYWORD_AND_PARSER_TABLES	grl-:grtab.link	LINK	11
GCOMPILE	grl-:gcomp.link	LINK	11
COMPILE_VIEWING	grl-:c_view.link	LINK	11
COMPILE_OUTPUT	grl-:c_out.link	LINK	11
COMPILE_UTILITY	grl-:c_util.link	LINK	11
COMPILE_ATTRIBUTE	grl-:c_attr.link	LINK	11
COMPILE_INPUT	grl-:c_in.link	LINK	11
COMPILE_MISC	grl-:c_misc.link	LINK	11
COMPILE_CONTROL	grl-:c_cntr.link	LINK	11
GBASIC_INTERFACE	grl-:gbint.link	LINK	11
GCONTROL	grl-:cntrl.link	LINK	11
PLOT_FCTS	grl-:plot.link	LINK	11
GRAPHICAL_TEXT_FCTS	grl-:gtxt.link	LINK	11
AXES_AND_GRID	grl-:axes.link	LINK	11
PLOT_ARRAY	grl-:parray.link	LINK	11
OUTPUT_PRIMITIVES	grl-:prim.link	LINK	11
VIEW_TRANSFORM	grl-:vwxfm.link	LINK	11
VIEWING_MATRICES	grl-:vwmat.link	LINK	11
VIEW_SPECIFICATION	grl-:vwspc.link	LINK	11
ATTRIBUTES	grl-:attr.link	LINK	11
CHAR_TABLES	grl-:stand.link	LINK	11
CHAR_TABLES	grl-:euro.link	LINK	11
CHAR_TABLES	grl-:kata.link	LINK	11
FONT_TABLES	grl-:font.link	LINK	11
OUTPUT	grl-:out.link	LINK	11
PLOTTING_FUNCTIONS	grl-:pfct.link	LINK	11
GINPUT	grl-:in.link	LINK	11
GKEY_SUPPORT	grl-:gkey.link	LINK	11

RASTER_DUMP	grl:=dump.link	LINK 11
SERVER_MANAGER	grl:=drvmgr.link	LINK 11
SERVER_UTILITIES	grl:=dutil.link	LINK 11
IOSYNC	grl:=dutil.link	LINK 11
CHAR_ID_UTIL	grl:=chrlo.link	LINK 11
HPGL_UTILITIES	grl:=uhpgl.link	LINK 11
HPGL_DRIVER	grl:=hpgl.link	LINK 11
ARROW_KEYS_DRIVER	grl:=arrow.link	LINK 11
CRT_CONTROL	grl:=ccntl.link	LINK 43
CRT_GLOBALS	grl:=cglob.link	LINK 43
CRT_GLOBALS	grl:=cglob2.link	LINK 43
CRT_DRIVER	grl:=cdrvr.link	LINK 43
CRT_PLOTTING	grl:=cplot.link	LINK 43
CRT_SPECIALS	grl:=cspec.link	LINK 43
CRT_AREA_FILL	grl:=cfill.link	LINK 43
LIGHT_PEN_DRIVER	grl:=lp.link	LINK 43
LIGHT_PEN_INTERRUPT_HANDLER	grl:=lpint.link	LINK 43
LP_TABLES	grl:=pred.link	LINK 43

8. Special Test Tools:

A. Special Test MODCAL Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
GTEST	kwl:c.gtest1.text	*MSC	30
GTEST	kwl:imp.gtest1.text	MSC	30
GTEST	kwl:imp.gtest3.text	MSC	30
ADW_GTEST	adw:c.agtest.text	*MSC	30
ADW_GTEST	adw:imp.agtest.text	MSC	30

B. Special Test FOCUS ASSEMBLER Source

MODULE NAME	FILE NAME	TYPE	SEGMENT
GTEST	kwl:imp.gtest2.text	*ASC	30

C. Special Test LINK Files

MODULE NAME	FILE NAME	TYPE	SEGMENT
GTEST	grl:=gtest.link	LINK	30
GTEST	grl:=gtest3.link	LINK	30
ADW_GTEST	grl:=agtest.link	LINK	30

DAWN IMAGE Data Base
SOFTWARE DOCUMENTATION INDEX

CONTENTS

- 0. SOFTWARE INDEX
- 1. EXTERNAL REFERENCE SPECIFICATION (ERS)
- 2. MAINTENANCE GUIDE
- 3. IMAGE PRODUCT
- 4. MISCELLANEOUS
- 5. SOURCE/LINK/COMMAND FILES

0. SOFTWARE INDEX

- a. *LISTER file: ers:db.pd.lst
- b. Text files: ers:db.pdindex.text

1. EXTERNAL REFERENCE SPECIFICATION (ERS)

- a. *LISTER file: ers:dbers.lst (list from ers volume)
- ers:dbers2.lst (list from default volume)
- b. Text files: ers:dbers.tc.text
- ers:dbers.crt.text
- ers:dbers.eras.text
- ers:dbers.purg.text
- ers:dbers.stat.text
- ers:dbers.open.text
- ers:dbers.clos.text
- ers:dbers.lock.text
- ers:dbers.unlk.text
- ers:dbers.info.text
- ers:dbers.put.text
- ers:dbers.find.text
- ers:dbers.get.text
- ers:dbers.del.text
- ers:dbers.cntl.text
- ers:dbers.pack.text
- ers:dbers.lang.text
- ers:dbers.sys.text
- ers:dbers.bnch.text
- ers:dbers.err.text
- ers:dbers.medi.text

2. MAINTENANCE GUIDE

- a. *LISTER file: ers:db.maint.lst

b. Text files: ers:db.maint.text

3. IMAGE PRODUCT

(part #90703A)

IMAGE BINARY DISK	(disk #97053-10024)
IMAGE QUERY DISK 1	(disk #97053-10025)
IMAGE QUERY DISK 2	(disk #97053-10026)
IMAGE QUERY DISK 3	(disk #97053-10027)
IMAGE QUERY DISK 4	(disk #97053-10028)

4. MISCELLANEOUS

QUERY/9000 Source	(disk #S-97053-90310-1)
BASIC ACCEPTANCE TEST Linus tape	(tape #S-97053-90314-1)
'Vol3' mini-floppy disk	(disk #S-97053-90312-1)
'BIG2' 8" floppy disk	(disk #S-97053-90311-1)
IMAGE_FCS_CREATE mini-floppy disk	(disk #S-97053-90313-1)

5. SOURCE/LINK/COMMAND FILES

A. LINK COMMAND FILES

a. D# delta file:	dbl link:linkdb.d.text
b. D- delta file:	dbl -:linkdb.d.text
c. FCS D# delta files:	dbl link:linkfcs.d.text
d. FCS D- delta files:	dbl -:linkfcs.d.text

B. COMPILE STREAM FILES

a. D# compile stream file:	*:comp.#.db.text	
b. D- compile stream file:	*:comp.-.db.text	
c. D# FCS stream file:	*:comp.#.dbf.text	
d. D- FCS stream file:	*:comp.-.dbf.text	
e. compile Listing file:	*:comp.l.db.text	(to printer)
	*:comp.lf.db.text	(to files)
f. FCS compile Listings:	*:comp.l.dbf.text	(to printer)
	*:comp.lf.df.text	(to files)

C. GLOBAL DEF FILES - SEGMENT 12

a. IMAGE ROM DEF FILES

- dbdefs: def.image.text
- dbdefs: def.dbcb.text
- dbdefs: def.dbparm.text
- dbdefs: cw.error.text
- dbdefs: cw.const.text
- dbdefs: herr2.def.text
- dbdefs: util.def.text
- dbdefs: d.glob42.text

D. SOURCE/LINKS - SEGMENT 12

1. IMAGE binary source files

MODULE NAME	FILE NAME	TYPE	SEG
BUTIL42	km:c.butil42.text	*MSC	12
BUTIL42	dbdefs:d.butil42.text	MSC	12
CNTRL	mmh:c.cntrl.text	*MSC	12
CNTRL	mmh:cntrlx.text	MSC	12
CNTRL	dbdefs:cntrl.def.text	MSC	12
CNTRL	dbdefs:cntrl2.def.text	MSC	12
CNTRL	mmh:gar.mmh.text	MSC	12
CUTIL42	km:c.cutil42.text	*MSC	12
CUTIL42	dbdefs:d.cutil42.text	MSC	12
DB.KEYWRD	mmh:db.keywrd.text	*ASC	12
DB.PTAB	mmh:db.ptab.text	*ASC	12
DB.ROM	mmh:c.db.rom.text	*MSC	12
DB.ROM	mmh:db.con.text	MSC	12
DB.ROM	mmh:db.keycon.text	MSC	12
DB.ROM	mmh:db.parser.text	MSC	12
DB.ROM	mmh:db.apply.text	MSC	12
DB.ROM	mmh:db.codegen.text	MSC	12
DB.ROM	mmh:db.c.pfmt.text	MSC	12
DB.ROM	mmh:db.c.pack.text	MSC	12
DB.ROM	mmh:db.c.manip.text	MSC	12
DB.ROM	mmh:db.c.procs.text	MSC	12
DBFIND	km:c.dbfind.text	*MSC	12
DBFIND	dbdefs:def.dbfnd.text	MSC	12
DBGET	km:c.dbget.text	*MSC	12
DBGET	dbdefs:def.dbget.text	MSC	12
DBIO	mmh:c.dbio.text	*MSC	12
DBIO	mmh:dbiox.text	MSC	12
DBIO	dbdefs:dbio.def.text	MSC	12
DBPUT	mmh:c.dbput.text	*MSC	12
DBPUT	mmh:dbput1.text	MSC	12
DBPUT	mmh:dbput2.text	MSC	12
DBPUT	mmh:dbput3.text	MSC	12
DBPUT	mmh:dbput4.text	MSC	12
DBPUT	dbdefs:def.dbput.text	MSC	12
DBPUT	mmh:gar.mmh.text	MSC	12
DBUTIL	mmh:c.dbutil.text	*MSC	12
DBUTIL	mmh:dbutil1.text	MSC	12

DBUTIL	mmh:dbutil2.text	MSC 12
DBUTIL	mmh:dbutil3.text	MSC 12
DBUTIL	dbdefs:dbutil.def.text	MSC 12
DELETE	mmh:c.delete.text	*MSC 12
DELETE	mmh:delete1.text	MSC 12
DELETE	mmh:delete2.text	MSC 12
DELETE	mmh:delete3.text	MSC 12
DELETE	dbdefs:def.dbdlt.text	MSC 12
DELETE	dbdefs:def.dbdlt1.text	MSC 12
FUTIL42	km:c.futil42.text	*MSC 12
FUTIL42	dbdefs:d.futil42.text	MSC 12
HASH	km:assmhash.text	*ASC 12
INFO	mmh:c.info.text	*MSC 12
INFO	mmh:infox.text	MSC 12
INFO	dbdefs:info.def.text	MSC 12
INFO1	mmh:c.info1.text	*MSC 12
INFO1	mmh:infoix.text	MSC 12
INFO1	dbdefs:info1.def.text	MSC 12
INFO2	mmh:c.info2.text	*MSC 12
INFO2	mmh:info2x.text	MSC 12
INFO2	dbdefs:info2.def.text	MSC 12
INFO4	mmh:c.info4.text	*MSC 12
INFO4	mmh:info4x.text	MSC 12
INFO4	dbdefs:info4.def.text	MSC 12
MISC	mmh:c.misc.text	*MSC 12
MISC	mmh:miscx.text	MSC 12
MISC	dbdefs:misc.def.text	MSC 12
MISC	dbdefs:misc2.def.text	MSC 12
PACK	mmh:c.pack.text	*MSC 12
PACK	mmh:packx.text	MSC 12
PACK	dbdefs:pack.def.text	MSC 12
PGUTIL	mmh:c.pgutil.text	*MSC 12
PGUTIL	mmh:pguty1.text	MSC 12
PGUTIL	mmh:pguty2.text	MSC 12
PGUTIL	mmh:pguty3.text	MSC 12
PGUTIL	mmh:pguty4.text	MSC 12
PGUTIL	dbdefs:def.pgutil.text	MSC 12
ROUTER	km:c.router.text	*MSC 12
ROUTER	dbdefs:def.router.text	MSC 12
RTBUF	km:c.rtbuf.text	*MSC 12
RTBUF	dbdefs:def.rtbuf.text	MSC 12
RTCLOSE	km:c.rtclose.text	*MSC 12

RTCLOSE	km:rtclose1.text	MSC 12
RTCLOSE	km:rtclose2.text	MSC 12
RTCLOSE	dbdefs:def.rtc1.text	MSC 12
RTHASH	km:c.rthash.text	*MSC 12
RTHASH	km:rthash1.text	MSC 12
RTHASH	dbdefs:def.rthash.text	MSC 12
RTHASH	dbdefs:def.rthas2.text	MSC 12
RTIO	km:c.rtio.text	*MSC 12
RTIO	km:rtio1.text	MSC 12
RTIO	dbdefs:def.rtio.text	MSC 12
RTIO	dbdefs:def.rtio2.text	MSC 12
RTIO	dbdefs:def.rtio3.text	MSC 12
RTLOCK	km:c.rtlock.text	*MSC 12
RTLOCK	km:rtlock1.text	MSC 12
RTLOCK	dbdefs:def.rtlock.text	MSC 12
RTOPEN	km:c.rtopen.text	*MSC 12
RTOPEN	km:rtopen1.text	MSC 12
RTOPEN	km:rtopen2.text	MSC 12
RTOPEN	km:rtopen3.text	MSC 12
RTOPEN	dbdefs:def.rtopen.text	MSC 12
RTOPEN	dbdefs:def.rtope2.text	MSC 12
RTTBL	km:c.rttbl1.text	*MSC 12
RTTBL	km:rttbl11.text	MSC 12
RTTBL	dbdefs:def.rttbl1.text	MSC 12
RTTBL	dbdefs:def.rttbl2.text	MSC 12
RTTBL	dbdefs:def.rttbl3.text	MSC 12
SETIO	mmh:c.setio.text	*MSC 12
SETIO	mmh:setiox.text	MSC 12
SETIO	dbdefs:setio.def.text	MSC 12
SETS	mmh:c.sets.text	*MSC 12
SETS	mmh:setsx.text	MSC 12
SETS	dbdefs:sets.def.text	MSC 12
SETS	dbdefs:sets2.def.text	MSC 12
SUTIL42	km:c.sutil42.text	*MSC 12
SUTIL42	dbdefs:d.sutil42.text	MSC 12
UPDATE	mmh:c.update.text	*MSC 12
UPDATE	dbdefs:def.dbupd.text	MSC 12
	mmh:gar.mmh.text	MSC 12
VOLIO	mmh:c.volio.text	*MSC 12
VOLIO	mmh:voliox.text	MSC 12
VOLIO	dbdefs:volio.def.text	MSC 12

2. IMAGE binary Link Files

MODULE NAME	FILE NAME	TYPE	SEG
BUTIL42	dbl-:butil42.link	LINK	12
CNTRL	dbl-:cntrl.link	LINK	12
CUTIL42	dbl-:cutil42.link	LINK	12
DB.KEYWRD	dbl-:db.keywrld.link	LINK	12
DB.PTAB	dbl-:db.ptab.link	LINK	12
DB.ROM	dbl-:db.rom.link	LINK	12
DBFIND	dbl-:dbfind.link	LINK	12
DBGET	dbl-:dbget.link	LINK	12
DBIO	dbl-:dbio.link	LINK	12
DBPUT	dbl-:dbput.link	LINK	12
DBUTIL	dbl-:dbutil.link	LINK	12
DELETE	dbl-:delete.link	LINK	12
FUTIL42	dbl-:futil42.link	LINK	12
HASH	dbl-:hash.link	LINK	12
INFO	dbl-:info.link	LINK	12
INFO1	dbl-:info1.link	LINK	12
INFO2	dbl-:info2.link	LINK	12
INFO4	dbl-:info4.link	LINK	12
MISC	dbl-:misc.link	LINK	12
PACK	dbl-:pack.link	LINK	12
PGUTIL	dbl-:pgutil.link	LINK	12
ROUTER	dbl-:router.link	LINK	12
RTBUF	dbl-:rtbuf.link	LINK	12
RTCLOSE	dbl-:rtclose.link	LINK	12
RTHASH	dbl-:rthash.link	LINK	12
RTIO	dbl-:rtio.link	LINK	12
RTLCK	dbl-:rtlock.link	LINK	12
RTOPEN	dbl-:rtopen.link	LINK	12
RTTBL	dbl-:rttbl.link	LINK	12
SETIO	dbl-:setio.link	LINK	12
SETS	dbl-:sets.link	LINK	12
SUTIL42	dbl-:sutil42.link	LINK	12
UPDATE	dbl-:update.link	LINK	12
VOLIO	dbl-:volio.link	LINK	12

E. FCS SOURCE/LINKS - SEGMENT 100-200

1. IMAGE FCS source files

MODULE NAME	FILE NAME	TYPE	SEG
ARRAY42	rgt:array42.text	*MSC	xxx
ARRAY42	rgt:d.array42.text	MSC	xxx
CODE42	rgt:code42.text	*MSC	xxx
CODE42	rgt:d.code42.text	MSC	xxx
EXCLUDE	mmh:exclude.text	*MSC	xxx
EXCLUDE	mmh:excludex.text	MSC	xxx
EXCLUDE	dbdefs:excl.def.text	MSC	xxx
FIELD42	rgt:field42.text	*MSC	xxx
FIELD42	rgt:d.field42.text	MSC	xxx
FILE42	rgt:file42.text	*MSC	xxx
FILE42	rgt:d.file42.text	MSC	xxx
HEADER42	rgt:header42.text	*MSC	xxx
HEADER42	rgt:d.header42.text	MSC	xxx
ITEM42	rgt:item42.text	*MSC	xxx
ITEM42	rgt:d.item42.text	MSC	xxx
MOD	mmh:mod.text	*MSC	xxx
MOD	mmh:modx.text	MSC	xxx
MOD	dbdefs:mod.def.text	MSC	xxx
PATH42	rgt:path42.text	*MSC	xxx
PATH42	rgt:d.path42.text	MSC	xxx
PROTECT	mmh:protect.text	*MSC	xxx
PROTECT	mmh:protectx.text	MSC	xxx
PROTECT	dbdefs:pro.def.text	MSC	xxx
RANGE42	rgt:range42.text	*MSC	xxx
RANGE42	rgt:d.range42.text	MSC	xxx
SET42	rgt:set42.text	*MSC	xxx
SET42	rgt:d.set42.text	MSC	xxx
STRUCT42	rgt:struct42.text	*MSC	xxx
STRUCT42	rgt:d.struct42.text	MSC	xxx

2. IMAGE FCS Link files

MODULE NAME	FILE NAME	TYPE	SEG
ARRAY42	dbl-:array42.link	LINK	xxx
CODE42	dbl-:code42.link	LINK	xxx
EXCLUDE	dbl-:exclude.link	LINK	xxx
FIELD42	dbl-:field42.link	LINK	xxx
FILE42	dbl-:file42.link	LINK	xxx
HEADER42	dbl-:header42.link	LINK	xxx
ITEM42	dbl-:item42.link	LINK	xxx
MOD	dbl-:mod.link	LINK	xxx
PATH42	dbl-:path42.link	LINK	xxx
PROTECT	dbl-:protect.link	LINK	xxx
RANGE42	dbl-:range42.link	LINK	xxx
SET42	dbl-:set42.link	LINK	xxx
STRUCT42	dbl-:struct42.link	LINK	xxx

DAWN QUERY
SOFTWARE DOCUMENTATION INDEX

CONTENTS

0. SOFTWARE INDEX
1. EXTERNAL REFERENCE SPECIFICATION (ERS)
2. MAINTENANCE GUIDE
3. SOURCE/TOOL FILES

0. SOFTWARE INDEX

- a. *LISTER file: ers: query.dx.lst
- b. Text files: ers: query.dx.text

1. EXTERNAL REFERENCE SPECIFICATION (ERS) -- none.

2. MAINTENANCE GUIDE

- a. *LISTER file: ers: query.mg.lst
- b. Text files: ers: query.mg.text

3. SOURCE/TOOLS FILES

Note: All files listed below are on the Query 7906 master disk
(Drawing # S-97053-90310-1)

A. MASTER SOURCE FILES

- a. QUERY module/data files:
 - /QUERY/SOURCE/QUERY
 - /QUERY/SOURCE/QOPEN
 - /QUERY/SOURCE/QLEX
 - /QUERY/SOURCE/QSHOW
 - /QUERY/SOURCE/QRUN
 - /QUERY/SOURCE/QBDFORM
 - /QUERY/SOURCE/QUPDATE
 - /QUERY/SOURCE/QUSFORM
 - /QUERY/SOURCE/QSEARCH
 - /QUERY/SOURCE/QFIND
 - /QUERY/SOURCE/QSORT
 - /QUERY/SOURCE/QLIST
 - /QUERY/SOURCE/DEFINE
 - /QUERY/SOURCE/DSETS
 - /QUERY/SOURCE/DSHOW
 - /QUERY/SOURCE/DBUILD
 - /QUERY/SOURCE/DCOMPILED
 - /QUERY/SOURCE/DBUTIL
 - /QUERY/SOURCE/SCHEMA
 - /QUERY/SOURCE/QSUM

b. Utility programs:

/QUERY/SOURCE/BUILD_QUERY
/QUERY/SOURCE/DBIMPORT
/QUERY/SOURCE/DBXPRT

c. Sample LIBRARY data base

1. Schema:

/QUERY/SOURCE/LIBRARY_SCHEMA

2. Unload file:

/QUERY/SOURCE/LIBRARY_UNLOAD

3. Data base:

/QUERY/SOURCE/LIBRARY/ROOT
/QUERY/SOURCE/LIBRARY/AUTHOR
/QUERY/SOURCE/LIBRARY/CALL_NUMBER
/QUERY/SOURCE/LIBRARY/SUBJECT
/QUERY/SOURCE/LIBRARY/TITLE
/QUERY/SOURCE/LIBRARY/LIBRARY
/QUERY/SOURCE/LIBRARY/BORROWER
/QUERY/SOURCE/LIBRARY/BOOK
/QUERY/SOURCE/LIBRARY/INVENTORY

B. Files for source in SAVE form (input to QSTRP)

/QUERY/SOURCE/Query
/QUERY/SOURCE/Qopen
/QUERY/SOURCE/Qshow
/QUERY/SOURCE/Qrun
/QUERY/SOURCE/Qbdfm
/QUERY/SOURCE/Qupdate
/QUERY/SOURCE/Qusform
/QUERY/SOURCE/Qsearch
/QUERY/SOURCE/Qfind
/QUERY/SOURCE/Qsort
/QUERY/SOURCE/Qlist
/QUERY/SOURCE/Define
/QUERY/SOURCE/Dsets
/QUERY/SOURCE/Dshow
/QUERY/SOURCE/Dbuild
/QUERY/SOURCE/Dcompiled
/QUERY/SOURCE/Dbutil
/QUERY/SOURCE/Schema

C. Files for "stripped" code (produced by QSTRP):

/QUERY/STRIPPED/query
/QUERY/STRIPPED/qopen
/QUERY/STRIPPED/qshow
/QUERY/STRIPPED/qrun
/QUERY/STRIPPED/qbdfm
/QUERY/STRIPPED/qupdate
/QUERY/STRIPPED/qusform
/QUERY/STRIPPED/qsearch
/QUERY/STRIPPED/qfind
/QUERY/STRIPPED/qsort
/QUERY/STRIPPED/qlist
/QUERY/STRIPPED/define
/QUERY/STRIPPED/dsets
/QUERY/STRIPPED/dshow
/QUERY/STRIPPED/dbuild
/QUERY/STRIPPED/dccompiled

/QUERY/STRIPPED/dbutil
/QUERY/STRIPPED/schema

D. Product files

a. QUERY module/data files:

/QUERY/QUERY
/QUERY/QOPEN
/QUERY/QLEX
/QUERY/QSHOW
/QUERY/QRUN
/QUERY/QBDFORM
/QUERY/QUPDATE
/QUERY/QUSFORM
/QUERY/QSEARCH
/QUERY/QFIND
/QUERY/QSORT
/QUERY/QLIST
/QUERY/DEFINE
/QUERY/DSETS
/QUERY/DSHOW
/QUERY/DBUILD
/QUERY/DOMPILED
/QUERY/DBUTIL
/QUERY/SCHEMA
/QUERY/QSUM

b. Utility programs:

/QUERY/DBIMPORT
/QUERY/DBXPRT
/QUERY/BUILD_QUERY

c. Sample LIBRARY data base

1. Schema:

2. Unload file:

3. Data base:

/QUERY/LIBRARY_SCHEMA
/QUERY/LIBRARY_UNLOAD
/QUERY/LIBRARY_ROOT
/QUERY/LIBRARY_AUTHOR
/QUERY/LIBRARY_CALL_NUMBER
/QUERY/LIBRARY_SUBJECT
/QUERY/LIBRARY_TITLE
/QUERY/LIBRARY_LIBRARY
/QUERY/LIBRARY_BORROWER
/QUERY/LIBRARY_BOOK
/QUERY/LIBRARY_INVENTORY

E. Factory-compiled subroutines (FCS's)

a. For QBDFORM:

b. For DOMPILED:

c. For DBUTIL:

d. For SCHEMA:

e. ALL FCS's:

/QUERY/FCS/QBDFORM_FCS
/QUERY/FCS/DOMPILED_FCS
/QUERY/FCS/DBUTIL_FCS
/QUERY/FCS/SCHEMA_FCS
/QUERY/FCS/IMAGE_FCS_B0100

F. Release tools

a. Strips comments:

b. Backs up source and tools:

c. Creates product disks:

d. SFK definitions for use in
releasing a system:

/QUERY/SUPPORT/QSTRP
/QUERY/SUPPORT/QBACK
/QUERY/SUPPORT/SPLIT_QUERY
/QUERY/SUPPORT/RELEASE_SFKS

The following information is contained in the file, INDEX.
 All of the data files on the documentation disc(part # S-97050-90334-1)
 are list able using the program contained in the file "ED6.2"and a 9845E.
 The other files contain the information shown below.
 Unless otherwise shown, the files indicated are on the documentation
 disc.

I. INDEX file.

Called INDEX.

II. External Reference Specification (ERS)

The ERS for each utility is contained in the files indicated:

Utility	Filename
DISC_COPY	DCERS
CONVERGE	CONERS
DEGAUSS	DEGERS
BANNER	BANERS
SET_NON_VOL_MEM	SETERS
MAG_TAPE_COPY	MTERS
DISC_BACKUP	no ERS; see manual
TRANSLATOR	no ERS; see manual

III. Internal Reference Specification (IRS)

The IRS for each utility is contained in the file indicated:

Utility	Filename
DISC_COPY	DCIRS
CONVERGE	CONIRS
DEGAUSS	DEGIRS
BANNER	BANIRS
SET_NON_VOL_MEM	SETIRS
MAG_TAPE_COPY	MTIRS
DISC_BACKUP	no IRS
TRANSLATOR	no IRS

IV. Maintenance Guide

The maintenance guide for the utilities is located in the
 file named MAINT. The disc containing the maintenance
 programs is listed in the file called MAINT.

It should be noted that all utilities except TRANSLATOR are
 shipped in compiled form. TRANSLATOR is shipped in LOAD form
 so that users can LIST and EDIT the source.

V. SOURCE

The source code for each of the utilities is contained in the files
 on the discs detailed below:

Utility	Disc	Filename
DISC_COPY	S-97050-90335-1	DISC_COPY.S
CONVERGE	S-97050-90335-1	CONVERGE.S
DEGAUSS	S-97050-90335-1	DEGAUSS.S

BANNER	S-97050-90336-1	BANNER.S
DISC_BACKUP	S-97050-90336-1	DISC_BACKUP.S
SET_NON_VOL_MEM	S-97050-90337-1	SET_NON_VOL_MEMS GEN_SET_NON_VOL
MAG_TAPE_COPY	S-97050-90337-1	MAG_TAPE_COPY.S

The TRANSLATOR does not need to be on a source disc since it is shipped to customers in source form.

VI. Test Procedures

The file containing the test procedure for all of the utilities is on the documentation disc and is call QAPLAN.

:INTERNAL
 LABEL: 97050-10027R0101
 FORMAT: SDF
 AVAILABLE SPACE: 53

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	MODIFIED TIME	PUB ACC	OPEN STAT
DEGAUSS	1	9000	PROG	8	256	14-Oct-82	15:36	MRW	
CONVERGE	1	9000	PROG	12	256	14-Oct-82	15:31	MRW	
DISC_COPY	1	9000	PROG	608	256	27-Jan-83	18:40	MRW	
DISC_BACKUP	1	9000	PROG	344	256	28-Jan-83	13:31	MRW	

:INTERNAL
 LABEL: 97050-10028R0101
 FORMAT: SDF
 AVAILABLE SPACE: 157

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	MODIFIED TIME	PUB ACC	OPEN STAT
BANNER	1	9000	PROG	104	256	14-Oct-82	16:05	MRW	
MAG_TAPE_COPY	1	9000	PROG	764	256	27-Jan-83	17:21	MRW	

:INTERNAL
 LABEL: 97050-10029R0101
 FORMAT: SDF
 AVAILABLE SPACE: 373

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	MODIFIED TIME	PUB ACC	OPEN STAT
SET_NON_VOL_MEM	1	9000	PROG	28	256	14-Oct-82	19:43	MRW	
TRANSLATOR	1	9000	PROG	624	256	31-Jan-83	11:41	MRW	

The following information is contained in the file, INDEX.
 All of the data files on the documentation disc(part # S-97050-90334-1)
 are list-able using the program contained in the file "ED6.2"and a 9845B.
 The other files contain the information shown below.
 Unless otherwise shown, the files indicated are on the documentation
 disc.

I. INDEX file.

Called INIEX.

II. External Reference Specification (ERS)

The ERS for each utility is contained in the files indicated:

Utility	Filename
DISC_COPY	DCERS
CONVERGE	CONERS
DEGALSS	DEGERS
BANNER	BANERS
SET_NON_VOL_MEM	SETERS
MAG_TAPE_COPY	MTERS
DISC_BACKUP	no ERS; see manual
TRANSLATOR	no ERS; see manual
CHANGE_SYS	no ERS; see manual
MARK_BOOT	no ERS; see manual
BOOT_TO_FILE	no ERS; see manual

III. Internal Reference Specification (IRS)

The IRS for each utility is contained in the file indicated:

Utility	Filename
DISC_COPY	DCIRS
CONVERGE	CONIRS
DEGALSS	DEGIRS
BANNER	BANIRS
SET_NON_VOL_MEM	SETIRS
MAG_TAPE_COPY	MTIRS
DISC_BACKUP	no IRS
TRANSLATOR	no IRS
CHANGE_SYS	no IRS
MARK_BOOT	no IRS
BOOT_TO_FILE	no IRS

IV. Maintenance Guide

The maintenance guide for the utilities is located in the
 file named MAINT. The disc containing the maintenance
 programs is listed in the file called MAINT.

It should be noted that all utilities except TRANSLATOR are
 shipped in compiled form. TRANSLATOR is shipped in LOAD form
 so that users can LIST and EDIT the source.

V. SOURCE

The source code for each of the utilities is contained in the files on the discs detailed below:

Utility	Disc	Filename
DISC_COPY	S-97050-90335-1	DISC_COPY.S
CONVERGE	S-97050-90335-1	CONVERGE.S
DEGAUSS	S-97050-90335-1	DEGAUSS.S
BANNER	S-97050-90336-1	BANNER.S
DISC_BACKLP	S-97050-90336-1	DISC_BACKUP.S
CHANGE_SYS	S-97050-90336-1	CHANGE_SYS.S
MARK_BOOT	S-97050-90336-1	MARK_BOOT.S
BOOT_TO_FILE	S-97050-90336-1	BOOT_TO_FILE.S
SET_NON_VCL_MEM	S-97050-90337-1	SET_NON_VOL_MEMS GEN_SET_NON_VOL
MAG_TAPE_COPY	S-97050-90337-1	MAG_TAPE_COPY.S

The TRANSLATOR does not need to be on a source disc since it is shipped to customers in source form.

VI. Test Procedures

The file containing the test procedure for all of the utilities is on the documentation disc and is call QAPLAN.

TO: Doug Drees
Virgil Bennett
Mary Gaona
Paul Stoecker

10/18/82

FROM: Danny Darr SUBJECT: BASIC Rev 1.0 Software Parts List

cc: Bill Eads
Jack Cooley
Denny Georg
Joe Gersch
Mike Kolesar
Dan Osecky
Dave Morse
Howard Rathbun

This memo specifies the Rev 1.0 software parts list, CAT listings and LABEL specifications for the following HP9000 Model 20 BASIC Language System products:

97050 - BASIC LANGUAGE SYSTEM
97052 - 3D GRAPHICS
97053 - IMAGE/9000 & QUERY DBM LIBRARY

Three complete sets of disks will be released to ESO Manufacturing Specs.

97050 - BASIC LANGUAGE SYSTEM - PARTS LIST

- DISK #1 - (Part # 97050-10024)
BASIC system boot (1 of 2)
- DISK #2 - (Part # 97050-10025)
BASIC system boot (2 of 2)
- DISK #3 - (Part # 97050-10026)
BASIC Binaries
- DISK #4 - (Part # 97050-10027)
BASIC Utility Programs (1 of 3)
- DISK #5 - (Part # 97050-10028)
BASIC Utility Programs (2 of 3)
- DISK #6 - (Part # 97050-10029)
BASIC Utility Programs (3 of 3)

:INTERNAL

LABEL: 97050-10024R0100

97050 - BASIC LANGUAGE SYSTEM - CAT LIST

FORMAT: SDF

AVAILABLE SPACE: 0

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEI STA1
-----------	-----	----------	-----------	----------------	---------------	---------------	------	---------	-----------

:INTERNAL

LABEL: 97050-10025R0100

FORMAT: SDF

AVAILABLE SPACE: 616

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEI STA1
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:INTERNAL

LABEL: 97050-10026R0100

FORMAT: SDF

AVAILABLE SPACE: 133

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEI STA1
IO_B0100	1	9000	BIN	234	256	1-Oct-82	10:27	MRW	
MEMORY_VOL_B0100	1	9000	BIN	6	256	1-Oct-82	09:57	MRW	
PS_B0100	1	9000	BIN	61	256	1-Oct-82	09:54	MRW	
ERRORS_ENG_B0100	1	9000	BIN	38	256	1-Oct-82	09:54	MRW	
LIF_DISC_B0100	1	9000	BIN	35	256	1-Oct-82	09:55	MRW	
9845_DISC_B0100	1	9000	BIN	41	256	1-Oct-82	09:55	MRW	
CAT_BOOT	1	9000	PROG	84	256	1-Oct-82	16:41	MRW	
FP9885_B0100	1	9000	BIN	16	256	1-Oct-82	09:56	MRW	
FP27112_B0100	1	9000	BIN	8	256	1-Oct-82	09:56	MRW	
SERIAL_B0100	1	9000	BIN	54	256	1-Oct-82	09:57	MRW	
FP7970_B0100	1	9000	BIN	21	256	1-Oct-82	09:57	MRW	
XREF_B0100	1	9000	BIN	21	256	1-Oct-82	09:57	MRW	
FP18_FLEX_B0100	1	9000	BIN	48	256	15-Oct-82	10:44	MRW	
EUILD_BOOT	1	9000	PROG	216	256	15-Oct-82	16:23	MRW	

:INTERNAL

LABEL: 97050-10027R0100

FORMAT: SDF

AVAILABLE SPACE: 397

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEI STA1
IEGAUSS	1	9000	PROG	8	256	14-Oct-82	15:36	MRW	
CONVERGE	1	9000	PROG	12	256	14-Oct-82	15:31	MRW	
IISC_COPY	1	9000	PROG	608	256	14-Oct-82	20:02	MRW	

:INTERNAL

LABEL: 97050-10028R0100

FORMAT: SDF

AVAILABLE SPACE: 921

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEI STA1
EANNER	1	9000	PROG	104	256	14-Oct-82	16:05	MRW	

:INTERNAL

LABEL: 97050-10029R0100

FORMAT: SDF

AVAILABLE SPACE: 997

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEI STA1
SET_NON_VOL_MEM	1	9000	PROG	28	256	14-Oct-82	19:43	MRW	

97050 - BASIC LANGUAGE SYSTEM - LABEL SPECIFICATION

```
+-----+
| HP9000 model 20          BASIC |
+-----+
| 97050A          BASIC LANGUAGE SYSTEM |
| |
| p/n 97050-10024:          REV 01.00 |
| disk 1 of 2-disk BASIC system boot |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+
```

```
+-----+
| HP9000 model 20          BASIC |
+-----+
| 97050A          BASIC LANGUAGE SYSTEM |
| |
| p/n 97050-10025:          REV 01.00 |
| disk 2 of 2-disk BASIC system boot |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+
```

```
+-----+
| HP9000 model 20          BASIC |
+-----+
| 97050A          BASIC LANGUAGE SYSTEM |
| |
| p/n 97050-10026:          REV 01.00 |
| BASIC Option Binaries |
| BOOT Utilities |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+
```

```
+-----+
| HP9000 model 20          BASIC |
+-----+
| 97050A          BASIC LANGUAGE SYSTEM |
| |
| p/n 97050-10027:          REV 01.00 |
| BASIC Utility Programs disk 1 of 3 |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+
```



```
+-----+
| HP9000 model 20          BASIC |
+-----+
| 97050A          BASIC LANGUAGE SYSTEM |
|
| p/n 97050-10028:          REV 01.00 |
| BASIC Utility Programs disk 2 of 3 |
|
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
|          ALL RIGHTS RESERVED |
+-----+
```

```
+-----+
| HP9000 model 20          BASIC |
+-----+
| 97050A          BASIC LANGUAGE SYSTEM |
|
| p/n 97050-10029:          REV 01.00 |
| BASIC Utility Programs disk 3 of 3 |
|
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
|          ALL RIGHTS RESERVED |
+-----+
```

97052 - 3D GRAPHICS LIBRARY

DISK #1 - (Part # 97052-10024)
 3D GRAPHICS Option Binary

CAT LIST

: INTERNAL

LABEL: 97052-10024R0100

FORMAT: SDF

AVAILABLE SPACE: 605

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPER STA1
GRAPHICS_B0100	1	9000	BIN	351	256	1-Oct-82	10:56	MRW	
HP98770_B0100	1	9000	BIN	69	256	1-Oct-82	10:57	MRW	

LABEL SPECIFICATION

```

+-----+
| HP9000 model 20          BASIC |
+-----+
| 97052A                  3D GRAPHICS |
|                          |
| p/n 97052-10024:      REV 01.00 |
| 3D GRAPHICS Binary    |
|                          |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
|      ALL RIGHTS RESERVED |
+-----+
  
```

97053 - IMAGE/9000 & QUERY DBM LIBRARY

DISKS:

- DISK #1 - (Part # 97053-10024)
IMAGE DBM Option Binary
- DISK #2 - (Part # 97053-10025)
QUERY (1 of 3)
- DISK #3 - (Part # 97053-10026)
QUERY (2 of 3)
- DISK #4 - (Part # 97053-10027)
QUERY (3 of 3)
- DISK #5 - (Part # 97053-10028)
Sample Library Data Base

:INTERNAL 97053 - IMAGE/9000 & QUERY DBM LIBRARY - CAT LIST

LABEL: 97053-10024R0100

FORMAT: SDF

AVAILABLE SPACE: 777

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEN STAT
IMAGE_DBM_B0100	1	9000	BIN	248	256	1-Oct-82	13:22	MRW	

:INTERNAL

LABEL: 97053-10025R0100

FORMAT: SDF

AVAILABLE SPACE: 98

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEN STAT
BUILD_QUERY	1	9000	PROG	28	256	15-Oct-82	13:26	MRW	
QBDFORM	1	9000	PROG	142	256	18-Oct-82	12:02	MRW	
QOPEN	1	9000	PROG	88	256	15-Oct-82	17:03	MRW	
QLEX	1	9000	DATA	1	256	22-Sep-82	13:28	MRW	
QSHOW	1	9000	PROG	142	256	15-Oct-82	17:04	MRW	
QRUN	1	9000	PROG	21	256	15-Oct-82	17:04	MRW	
QUSFORM	1	9000	PROG	57	256	15-Oct-82	17:07	MRW	
QUPDATE	1	9000	PROG	240	256	15-Oct-82	17:06	MRW	
QUERY	1	9000	PROG	208	256	18-Oct-82	12:03	MRW	

:INTERNAL

LABEL: 97053-10026R0100

FORMAT: SDF

AVAILABLE SPACE: 129

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEN STAT
QSEARCH	1	9000	PROG	104	256	15-Oct-82	17:05	MRW	
QFIND	1	9000	PROG	145	256	15-Oct-82	17:05	MRW	
QSORT	1	9000	PROG	94	256	15-Oct-82	17:06	MRW	
QLIST	1	9000	PROG	84	256	15-Oct-82	17:06	MRW	
DEFINE	1	9000	PROG	76	256	15-Oct-82	17:07	MRW	
DSETS	1	9000	PROG	260	256	15-Oct-82	17:07	MRW	
DSHOW	1	9000	PROG	92	256	15-Oct-82	17:07	MRW	
DBUILD	1	9000	PROG	41	256	15-Oct-82	17:08	MRW	

:INTERNAL

LABEL: 97053-10027R0100

FORMAT: SDF

AVAILABLE SPACE: 170

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEN STAT
DCOMPILED	1	9000	PROG	159	256	15-Oct-82	17:10	MRW	
DBUTIL	1	9000	PROG	262	256	15-Oct-82	17:14	MRW	
QSUM	1	9000	PROG	46	256	15-Oct-82	13:25	MRW	
DBIMPORT	1	9845	BCD	84	256	30-Sep-82	09:39	MRW	
DBXPRT	1	9845	BCD	78	256			MRW	
SCHEMA	1	9000	PROG	226	256	18-Oct-82	12:06	MRW	

:INTERNAL

LABEL: 97053-10028R0100

FORMAT: SDF

AVAILABLE SPACE: 661

FILE NAME	LEV	SYS TYPE	FILE TYPE	NUMBER RECORDS	RECORD LENGTH	MODIFIED DATE	TIME	PUB ACC	OPEN STAT
LIBRARY_SCHEMA	1	9000	DATA	24	256	27-Sep-82	13:04	MRW	
LIBRARY_UNLOAD	1	9000	DATA	108	256	30-Sep-82	11:05	MRW	
LIBRARY	1		DIR	21	24	15-Oct-82	17:40	MR	

97053 - IMAGE/9000 & QUERY DBM LIBRARY - LABEL SPECIFICATION

+-----+
| HP9000 model 20 BASIC |
+-----+
| 197053A IMAGE/9000 & QUERY DBM Library |
| |
| p/n 97053-10024: REV 01.00 |
| IMAGE DBM Option Binary |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+

+-----+
| HP9000 model 20 BASIC |
+-----+
| 197053A IMAGE/9000 & QUERY DBM Library |
| |
| p/n 97053-10025: REV 01.00 |
| QUERY disk 1 of 3 (English version) |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+

+-----+
| HP9000 model 20 BASIC |
+-----+
| 197053A IMAGE/9000 & QUERY DBM Library |
| |
| p/n 97053-10026: REV 01.00 |
| QUERY disk 2 of 3 (English version) |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+

+-----+
| HP9000 model 20 BASIC |
+-----+
| 197053A IMAGE/9000 & QUERY DBM Library |
| |
| p/n 97053-10027: REV 01.00 |
| QUERY disk 3 of 3 (English version) |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+

+-----+
| HP9000 model 20 BASIC |
+-----+
| 197053A IMAGE/9000 & QUERY DBM Library |
| |
| p/n 97053-10028: REV 01.00 |
| Sample Library Data Base |
| |
| COPYRIGHT HEWLETT PACKARD CO. 1982 |
| ALL RIGHTS RESERVED |
+-----+

EFFECTIVE ON RUN:

MODEL/PART NO. 97050A
(97050-10024, 97050-10025,
97050-10027, 97050-10028, 97050-10029)

Engineer: Danny L.R. Darr, Joseph E. Gersch
Date: 2-1-83

SITUATION:

- 1) A microcode bug in the Memory Controller chip causes incorrect operation of the memory healer. The error may cause a -1 to be written into the healed location and thus result in software errors. The final result could be a system trap. (STARS SR# 4000-000539)
- 2) The BASIC UTILITIES were incomplete at the manufacturing release of rev 1.00. Three utilities have been added to the discs: MAG_TAPE_COPY, DISC_BACKUP and TRANSLATOR. In addition, DISC_COPY has had 1 minor bug fixed and has been re-released with the other utilities.

DESCRIPTION OF CHANGE:

- 1) The POWERUP software was changed to disable the memory healer. This was accomplished by making all healer locations appear to be used. This is an adaptive fix; if a subsequent release of the memory controller chip is made, it will set a bit in its status register. The POWERUP software will sense this bit and bypass the code which makes all healer locations appear to be used.
- 2) The files MAG_TAPE_COPY, DISC_BACKUP, TRANSLATOR and DISC_COPY have been released.

These changes affect the following discs:

97050-10024, 97050-10025 (BASIC BOOT DISCS)
97050-10027, 97050-10028, 97050-10029 (BASIC UTILITY DISCS)

The BASIC BINARIES disc is unchanged (97050-10026).

The revision ID for product 97050A must be updated to 01.01. The 5 media comprising this product will have the following revision ID's:

97050-10024	REV 01.01	
97050-10025	REV 01.01	
97050-10026	REV 01.00	(unchanged)
97050-10027	REV 01.01	
97050-10028	REV 01.01	
97050-10029	REV 01.01	

CONSEQUENCES:

All existing 97050A Rev 01.00 discs listed above as being revised must be replaced.

This change is documented on the following drawings:

A-97050-90343-1 (overview of change to boot discs)
S-97050-90338-1 (LINUS tape of BASIC source, 1 of 2)
S-97050-90339-1 (LINUS tape of BASIC source, 2 of 2)
S-97050-90344-1 (Pascal 2.0 boot disc)

The following drawings are to be re-released for rev 1.01:

S-97050-90326-1 (D# BASIC 1.01 boot 1 of 3)
S-97050-90327-1 (D# BASIC 1.01 boot 2 of 3)
S-97050-90328-1 (D# BASIC 1.01 boot 3 of 3)
S-97050-90334-1 (Utilities documentation)
S-97050-90335-1 (Utility Source 1 of 3)
S-97050-90336-1 (Utility Source 2 of 3)
S-97050-90337-1 (Utility Source 3 of 3)



MODEL 97050A - Rev. 1.01
Overview and Index

DRAWING A-97050-90343-1

BASIC LANGUAGE SYSTEM
HP9000 Model 20

This document contains an overview of system software and engineering documentation archived for Revision 1.01 of the BASIC Language System 97050A.

CONTENTS:

- I. Summary of Changes
- II. Software Development System Overview
- III. List of Magnetic Media Archived to Support
MODEL 97050A - Rev 1.01
- IV. List of hard copy Documents Archived to Support
MODEL 97050A - Rev 1.01



I. Summary of Changes

Revision 1.01 of 97050A includes minor changes to the POWERUP code and major changes to the software development support environment.

POWERUP modules (BDO/POWERUP1.TEXT, BDO/POWERUP5.TEXT, and *SEGHEADS.TEXT) were changed to disable the healer capability of the memory controller. This was necessary due to a microcode bug on the memory controller chip.

The software development system was upgraded to PASCAL 2.0 and moved from a 7925 to a 7914 disk accessed via the SRM. This new system has several advantages.

First, the new disk can be accessed by multiple workstations through the SRM. The new system configuration is based on the PASCAL 2.0/SRM product. Specific documentation and code for that product are available through DCD and will not be archived in ESD Specs. However, copies of the disk required to boot this system will be archived. Also a brief description of the system structure is included in section II of this document.

Second, code and documentation for all BASIC code and support tools is now on a single disk. A backup of this disk will be archived in ESD Specs for each rerelease of the BASIC products. Each backup will require two LINUS tape cartridges.

Finally, the hierarchical file system of the SRM allows for efficient software version control. Code for each release of the product will be contained in a separate SRM volume. A separate volume will be available for code maintenance.



II. Software Development System Overview

BASIC is maintained on the Pascal 2.0 workstation talking to a 7914 disc through the Shared Resource Manager (Ganglia), Version 1.0. This system uses released products entirely; the only thing special about it is that the boot disc is configured for UCSD as the primary DAM with the MULTI-VOLUME option. The purpose of this document is to give an overview of the system topology and the maintenance strategy.

A. System Topology

BASIC Version 1.0 was developed originally using 9845 workstation volumes on a 7925 disc. Most of these volumes are named on a per-engineer basis, using initials (eg TWT, RGT, KWL etc). Other volumes exist for system or subsystem purposes; examples are SYSTEM, DBLINK, MIS, ERS etc.

The directory on the 7914 consists of several SDF format trees:

pool

TOOLS (Used for tool maintenance/archiving)

SYSTEM
SYSTEM2
FCOMP
FASSEM
SPARE
TWT
DOC
FLINK
TOOLS

BASIX (To be used by the Basix project)

WORKSTATIONS (Used by the Ganglia system)

SYSTEM10
SYSTEM

BASIC (Used for maintaining Basic)

V1.0
 <45 volumes>
USRM (Version 1.01)
 <45 volumes>
WORK
 <45 volumes>
V1.02
 <45 volumes>



B. Maintenance Methodology

The current release is a write protected tree under BASIC. At this time, the current release is VSRM (Version 1.01).

At the time a release is made, two copies of the release tree are generated by the system manager. One is named WORK; it is an unprotected copy which is available for testing bug fixes. The second is a (MW protected) tree that will be the basis of the next release. Files that contain approved, tested bug fixes will be transferred from WORK by the system managers at the next release to this tree. A log will be kept on * of all files which change between successive releases.

Utilities will be used to compare trees and the files within them for differences so that a (manual) level of source code control can be achieved.



III. List of Magnetic Media Archived to Support HP9000
MODEL 97050A - Rev 1.01

Two copies of each of the following media are archived in ESD Manufacturing Specs and replace Rev 1.0 disks with the same part number. All other media listed in A-97050-90340-1 remain unchanged and are applicable to Rev 1.01.

Drawing #	MEDIA Type	Host System	Function
S-97050-90326-1	5 1/4" Floppy	HP9000	D# BASIC Boot 1/3(Rev 1.01)
S-97050-90327-1	5 1/4" Floppy	HP9000	D# BASIC Boot 2/3(Rev 1.01)
S-97050-90328-1	5 1/4" Floppy	HP9000	D# BASIC Boot 3/3(Rev 1.01)

Two copies of each of the following media are archived in ESD Manufacturing Specs and are applicable only to Rev 1.01.

Drawing #	MEDIA Type	Host System	Function
S-97050-90338-1	LINUS Tape	9826-P	Backup of 7914 Source and Documentation(1 of 2)
S-97050-90339-1	LINUS Tape	9826-P	Backup of 7914 Source and Documentation(2 of 2)
S-97050-90344-1	5 1/4" Floppy	9826-P	Pascal 2.0 BOOT disk

IV. List of hard copy Documents Archived to Support
MODEL 97050A - Rev 1.01

Two copies of the following document are archived in ESD Manufacturing Specs. All other documents listed in A-97050-90340-1 remain unchanged and are applicable to Rev 1.01.

A-97050-90343-1 97050A - Rev 1.01 Overview and Index

Joseph Gersch 34

EFFECTIVE ON RUN February 7, 1983

MODEL/PART NO. 97050A 97050-10028, 97050-10029
97050-10024, 97050-10025, 97050-10027

PRIOR SER. NO. DNA

PREPARED BY Danny Darr DATE February 1, 1983

FIRST SER. NO. DNA

DESCRIPTION & REASON

CONF. YES CL I APPROVED

SITUATION: 1) A microcode bug in the Memory Controller chip causes incorrect operation of the memory healer. The error may cause a -1 to be written into the healed location and thus result in software errors. The final result could be a system trap. (STARS SR# 4000-000539)

CONT. NO CL II NOT APPL.

APPROVED IN-PLANT ENGR. Paul Stoecker

R & D

MFG. ENGRG.

MFG. SPEC. [Signature]

MANUFACTURING SPECIFICATIONS

2) The BASIC UTILITIES were incomplete at the manufacturing release of rev.1.00. Three utilities have been added to the disc: MAG_TAPE_COPY, DISC_BACKUP and TRANSLATOR. In addition, DISC_COPY has had 1 minor bug fixed and has been released with the other utilities.

DESCRIPTION: 1) The POWERUP software was changed to disable the memory healer. This was accomplished by making all healer locations appear to be used. This is an adaptive fix; if a subsequent release of the memory controller chip is made, it will set a bit in its status register. The POWER UP software will sense this bit and bypass the code which makes all healer locations appear to be used.

2) The files MAG_TAPE_COPY, DISC_BACKUP, TRANSLATOR and DISC_COPY have been released.

These changes affect the following discs:

97050-10024, 97050-10025 (BASIC BOOT DISCS)
 97050-10027, 97050-10028, (BASIC UTILITY DISCS)
 97050-10029

The BASIC BINARIES disc is unchanged (97050-10026).

CHG. REQ.	MARKED PRINT (S)	CHG. DATE	MADE BY
	ML/SML		
X	KARDEX	3-4-83	LD
X	DRAWING(S)	3-4-83	LD
	ART-PHOTO		
	TOOLING		
	PROC. SH.		
OUTSTANDING W. O.			
INVENTORY - OLD			
INVENTORY - NEW			
SAMPLE CHANGED			
SERVICE - REPAIR			
REWORK			
TEST PROCEDURE			
MASTER ML			
TAB CARDS			
PUBLICATIONS			
DISTRIBUTION			
COST ACCTG.	X	CONTRACT ADM.	X
SERVICE CTR.	X	PROD. CONTROL	X
IN-PLANT ENGR.	X	PUBLICATIONS	X
INV. CONTROL	X	SPL. HANDLING	X
HP DIV.		DIV. QA	X
HP DIV.	B/6		
Danny L. R. Darr		Paul Stoecker	
Joseph E. Gersch			
Mary Gaona			

MODEL/PART NO. 97050A, 97050-10028, 97050-10029
97050-10024, 97050-10025, 97050-10027

DATE February 7, 1983

IMPLEMENTATION:

The revision ID for product 97050A must be updated to 01.01. The 6 media comprising this product will have the following revisions ID's:

- S- 97050-10024 REV 01.01
- S- 97050-10025 REV 01.01
- S- 97050-10026 REV 01.00 (unchanged)
- S- 97050-10027 REV 01.01
- S- 97050-10028 REV 01.01
- S- 97050-10029 REV 01.01

This change is documented on the following drawings:

- A-97050-90343-1 (overview of change to boot discs)
- S- 97050-90338-1 (LINUS tape of BASIC source, 1 of 2)
- S- 97050-90339-1 (LINUS tape of BASIC source, 2 of 2)
- S-97050-90344-1 (Pascal 2.0 boot disc)

The following drawings are to be re-released for rev 1.01:

- S-97050-90326-1 (D# BASIC 1.01 boot 1 of 3)
- S-97050-90327-1 (D# BASIC 1.01 boot 2 of 3)
- S-97050-90328-1 (D# BASIC 1.01 boot 3 of 3)
- S-97050-90334-1 (Utilities documentation)
- S-97050-90335-1 (Utility Source 1 of 3)
- S-97050-90336-1 (Utility Source 2 of 3)
- S-97050-90337-1 (Utility Source 3 of 3)

ESTIMATED SCRAP: none

SERVICE ACTION/EXCHANGE PROGRAM: none

SPECIAL INSTRUCTIONS: All 97050A Rev 01.01 discs listed above should be installed on the production software duplication system and archived in manufacturing specs.

MODEL/PART NO. 97050A 97050-10028 97050-10029
97050-10024 97050-10025 97050-10027DATE February 7, 1983 *ca*IMPLEMENTATION:

The revision ID for product 97050A must be updated to 01.01.
The 6 media comprising this product will have the following
revisions ID's:

97050-10024 REV 01.01
97050-10025 REV 01.01
97050-10026 REV 01.00 (unchanged)
97050-10027 REV 01.01
97050-10028 REV 01.01
97050-10029 REV 01.01

This change is documented on the following drawings:

A-97050-90343-1 (overview of change to boot discs)
A-97050-90338-1 (LINUS tape of BASIC source, 1 of 2)
A-97050-90339-1 (LINUS tape of BASIC source, 2 of 2)
S-97050-90344-1 (Pascal 2.0 boot disc)

The following drawings are to be re-released for rev 1.01:

S-97050-90326-1 (D# BASIC 1.01 boot 1 of 3)
S-97050-90327-1 (D# BASIC 1.01 boot 2 of 3)
S-97050-90328-1 (D# BASIC 1.01 boot 3 of 3)
S-97050-90334-1 (Utilities documentation)
S-97050-90335-1 (Utility Source 1 of 3)
S-97050-90336-1 (Utility Source 2 of 3)
S-97050-90337-1 (Utility Source 3 of 3)

ESTIMATED SCRAP: none

SERVICE ACTION/EXCHANGE PROGRAM: none

SPECIAL INSTRUCTIONS: All 97050A Rev 01.01 discs listed above should be
installed on the production software duplication system and archived in
manufacturing specs.