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Systems

OS/VS1 Release 2 Guide

VS1 Release 2

IBM

First Edition (January 1973)

This edition applies to Release 2 of OS/VS1 and to all subsequent releases until otherwise indicated in new editions or Technical Newsletters. Changes are continually made to the information contained herein; before using this publication in connection with the operation of IBM systems, consult the latest *IBM System/360 and System/370 Bibliography*, GA22-6822, and the current SRL Newsletter for editions that are applicable and current.

Level II of TCAM will not run under Release 2 of VS1. The TCAM information in this book is included for planning purposes until the availability of TCAM level IV.

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A form for reader's comments is provided at the back of this publication. If the form has been removed, comments may be addressed to IBM Programming Publications, Dept. G60 P.O. Box 6, Endicott, New York 13760. Comments become the property of IBM.

Preface

This publication is a summary of Release 2 of Operating System/Virtual Storage Option 1 (OS/VS1). It provides Installation managers, system programmers, and IBM field engineering personnel with information useful for planning and implementing Release 2. This publication summarizes changes to the OS/VS1 system control program (SCP).

The functional discussions are brief, and generally high level. However, where deemed important, detail is given. For extensive detail about any of the subject matter, you should refer to the appropriate subject publication. A complete list of support documentation is given in Part 1, Section 6.

Information in a Release Guide pertains primarily to the current release of the system control program. Much of this information remains valid and can be helpful in planning for subsequent releases, although it may not be repeated in subsequent release guides. If you are a new user of OS/VS1, you should consider reviewing *OS/VS1 Release 1 Guide*, GC24-5092.

To derive maximum benefit from this publication, you should be familiar with the information in *OS/VS1 Planning and Use Guide*, GC24-5090.

This publication is in four parts:

Part 1. A functional summary of new and changed features of OS/VS1, including new and changed system parameters and commands, system generation information, new hardware support, and publication support.

Part 2. A module directory, with a list of modules in the system and their status, such as size in bytes, change in sizes, alias names, etc.

Part 3. Ordering and distribution procedures and requirements for Release 2, including hardware engineering change levels, program material shipped with the system, and optional material available.

Part 4. APAR lists, Program Symtom Index for corrected items, and program tempory fixes (PTFs) resolved.

For a summary of the features and functions of OS/VS1 see the memorandum to OS/VS1 users (immediately following).

For a description of new terms used in this manual, refer to the glossary of terms in *OS/VS1 Planning and Use Guide*, GC24-5090.

Memorandum To: OS/VS1 Users

Subject: Release 2 - Release 2 of OS/VS1 is now available as an SCP (system control program). Part 3 of this publication contains ordering and distribution information for Release 2.

This release contains many new or improved features, including support for two new CPU models and several additional devices. These features are outlined below and are discussed in Part 1.

Summary of Features: Changes have been made to the Supervisor portion of the SCP (system control program). The Supervisor now:

- Checks for missing device end interrupts.
- Provides the facility for loading a control section on a page boundary
- Allows you to specify the V=R (virtual equals real) upper boundary on systems with more than 512K of real storage.
- Reserves 12K of virtual storage for use by partitions that require extra storage for providing ABEND dumps.
- Provides eleven new ABEND codes to further enhance problem determination.
- Password Protection capability for the Page File (SYS1.PAGE) has been made more useable.
- Supports ordered seek for the 3330 Disk Storage Drive.

Changes to the Scheduler portion of the SCP are:

- The START INITIATOR command allows you to override the default for the SWADS (scheduler work area data set) reserve value.
- You can cause the writer to checkpoint SYSOUT data sets.
- The HOLD parameter has been changed to requeue the job currently being processed onto the SYSOUT hold queue. The optional SYSOUT class entry is now invalid.
- The central operator can display outstanding requests, by user.
- The DUMP command allows you to dump selected areas of virtual storage.
- You may now include the three national characters (#,$,@) in the indetifier of the START command operand.
- You may now write output separation records *following* each job's output.
- SYSABEND dumps are available for system tasks that terminate abnormally.
- The STOPMN command allows you to terminate the monitoring activity.
- DEFINE command parameters may now be put in a member at SYS1.PARMLIB.
- The new REPLY command operand simpilfies operator responses.
- You can control, by user, the execution of IMCJOBQD for dumping selected output job queue data sets.

RES (Remote Entry Services) allows you to:

- Submit jobs to a central computer from a remote terminal.
- Communicate among remote terminals or between a remote terminal and the central computer.
- Route computer output to selected remote terminals.
- Monitor job and workstation status from terminals.

New and enhanced RAS (Realiability, Availability, and Serviceability) features in this release are:

- Handling of multiple-bit storage errors during IPL of the Model 158.
- OLTEP now executes in the pageable area of storage.
- DEB (data extent block) validity checking enhances data set security.

I/O load balancing attempts to equalize I/O contention through its device allocation of non-specific data sets.

Dynamic dispatching attempts to optimimize CPU and I/O resource utilization by altering the dispatching priorities of selected tasks while a job is executing.

Fetch protection provides security, prohibiting disclosure of a user's storage to any task except a system task.

Greenwich mean time provides a time of day clock that is independent of local time.

Automated system initialization makes the IPL process faster by allowing you to place system initialization parameters in the SYS1.PARMLIB.

The Logical Cylinder function provides the user with the ability to more efficiently use DASD workspace that is allocated for spooling.

The system operator now has control over the partition deactivation/reactivation activity of the page supervisor.

MCS (multiple console support) is extended to support new devices and functions.

BTAM now supports the 3270 Information Display System, and the 2798 Guidance Display Unit.

New and improved hardware support in this release includes:

- 2798 Guidance Display Unit (BTAM only)
- 3505 Card Reader
- 3525 Card Reader/Punch
- 3410 Magnetic Tape Unit
- 3420 Magnetic Tape Unit
- 3270 Information Display System (BTAM only)
- Display Console (Model 158)
- 3213 Console Printer (Model 158)
- 1052-7/2150 Console

The new CPU models supported by this release are:

- IBM System/370 Model 155 II
- IBM System/370 Model 158

Hardware Configuration

Release 2 of OS/VS1 will run on System/370 models 135, 145, 155 II, and 158. Each of these system types may be used to do a system generation using a starter system. The minimum hardware configuration required to execute Release 2 is:

- 128K CPU Dynamic Address Translation (DAT), and one standard multiplexor channel, and one selector or block multiplexor channel.
- one reader/punch
- one printer
- one console device
- Three 2314/2319 or two 3330 direct access storage devices.

See Part 1, Section 4, for special considerations for performing a system generation.

Smaller Storage Considerations

The following restrictions apply to the 128K real storage configuration:

- OLTEP (on line test executive program), DSS (Dynamic Support System), GTF (generalized trace facility), and VSAM (Virtual Storage Access Method), and RES (remote entry services) are not supported.
- Only one partition is supported.
- A maximum of two megabytes of virtual storage may be specified.

- Generation of a VS1 SCP using a 3330 starter system requires 144k bytes of real storage.

The following restrictions apply to the 144k real storage configurations:

- The external trace option of GTF is not supported (OLTEP and RES are supported).
- A maximum of two partition support is recommended.
- Only one partition support is allowed if the system includes RES.

Virtual Storage Considerations

The virtual storage requirement for support of your configuration has increased in Release 2. For information about the use of virtual storage space, refer to OS/VS1 Storage Estimates, GC24-5094.

Problem Determination Aids

Release 2 of OS/VS1 provides the following new diagnostic tools:

- DUMP command
- Eleven new ABEND codes
- A reserved dump area
- SYSABEND dumps for system tasks
- Selective control (by userid) of IMCJOBQD

These are discussed in Part 1, Section 2 of this publication

New System Data Sets

There are six new system data sets in Release 2 of OS/VS1:

- BRODCAST, RMTMAC, and UADS support RES.
- DCMLIB supports graphics console devices.
- DSSVM included for future support of DSS (Dynamic Support System).
- DUMP included as a user convenience.

Space is allocated for the data sets at system generation time, by using the DATASET macro instruction

System Generation for Future Requirements

Information about system generation parameters for VSAM (virtual storage access method) and DSS (dynamic support system) is included in this publication for planning purposes only. By specifying the parameters for VSAM, and DSS now, you will avoid doing an additional system generation when the features become available. Consult your IBM Branch Office concerning the availability of these features.

Sepatately Orderable Programs

Certain SCPs (system control program), and features of the base SCP (5741-020), are not shipped with Release 2 of OS/VS1. They must be ordered as needed, at no additional charge.

SCPs

- Emulators for System/370 models 135 and 145.
  1401/1440/1460
  1410/7010(model 145 only)
  DOS
- Emulators for System/370 Models 155 II and 158.
  1401/1440/1460
  1410/7010
  7070/7074
  DOS/OS Version II
- TCAM
- FD (form description) macros and utility support for the 3735 Programmable Buffered Terminal.

Orderable Features of SCP 5741-020

- Starter systems for System/370
- System/3 Workstation Program
- 1130 workstation bootstrap program

See Part 1, Section 3 for ordering information for these features.

Compatibility Considerations

Release 2 of OS/VS1 is upward compatible with Release 1. Some of the restrictions you should be aware of are:

- In Release 2 specifying unit affinity for new data sets causes error message IEF318I to be issued (refer to *OS/VS Message Library: VS1 System Messages,* GC38-1001 for detailed information). Specifying unit affinity for new data sets in Release 1 is allowed.
- In Release 2, a 2400 Magnetic Tape Unit request for a data set may be filled by a 3400 Magnetic Tape Unit. If a 3400 is allocated and the data set is cataloged, its subsequent uses will require a 3400 unit. A request for a 3400 will not be filled by a 2400. In Release 1 a 2400 is always allocated for either a 2400 or a 3400 request.
- In Release 2, user programs which are specified as reenterable, yet modify themselves, will cause protection checks. In Release 1 this condition does not necessarily cause an error.
- The Parm field of RDR procedures for Release 1 must be updated before these procedures will run under Release 2. Refer to *OS/VS1 Planning and Use Guide,* GC24-5090 for information about updating the parm field.
- If Release 1 level of OS/VS1 is used as the driving system for generation of a Release 2 system, use Release 2 level of IBCDASDI or IEHDASDR, and Release 2 level of IPLTEXT for initializing the target system pack.
- To do a Release 2 system generation of OS/VS1 using other than a starter system, the procedures ASMS and LINKS from SYS1.APROCLIB in the DLIBs (distribution libraries) must be used. These procedures together with instructions for extracting them from the DLIBs are in *OS/VS1 System Generation Reference,* GC26-3791.
- The first four bytes of IEAPATCH (the system patch area are now used to indicate its length. You can use HMASPZAP to vary the size of IEAPATCH from eight bytes to 2K bytes. The default length of the patch area is eight bytes. Refer to *OS/VS1 Debugging Guide,* GC24-5093 for instructions on modifying the length of IEAPATCH.
- In Release 2 the specification of system parameters and SET parameters is a combined response to message IEA101A during IPL. To include NIP (nucleus initialization procedure) device status checking, the DEVSTAT parameter must be specified in response to this message. For details refer to *OS/VS Message Library: VS1 System Messages,* GC38-1001.

Other Considerations The 3333-1 Disk Storage and Control with its associated director may be in lieu of the 3330 Disk Storage units indicated in this publication.

For Release 1, the value in the time of day clock is based on the year 1960 as a reference. For Release 2, the reference year has been changed to 1900. This has no effect on the values used to set the time of day clock, but it can have an effect on user written routines that use values furnished by the time of day clock.

Timeslicing, and dynamic dispatching are mutually exclusive functions, therefore the parameters DDPART and TMSLICE should not be specified together in the CTRLPROG macro instruction.

Update Release

A maintenance release (2.6) is planned for availability within 5-8 months.

Documentation

One copy of each of the following publications is sent with the notice to all current VS1 users:

OS/VS1 Planning and Use Guide (GC24-5090)
OS/VS1 Release 2 Guide (GC24-5097)
OS/VS1 System Generation Reference (GC26-3791)
OS/VS1 Storage Estimates (GC24-5094)

No publications will be shipped with the system. All VS1 documentation will be distributed as follows:

Normal SLSS service will provide volume distribution of all publications based upon current user profiles. These publications should be received within 4 weeks of the time SLSS distribution starts.

An expedited bill of forms procedure is available to provide one copy of all VS1 publications. Contact your IBM Marketing representative.

Current System Programs Support

OS Compilers and Sorts, available as part of OS Release 21.6, are supported by VS1 Release 2.

Program Products Support

Information regarding the support of Program Products for OS/VS1 Release 2 is available from your IBM Marketing Representative.

Release Currency

A VS1 release is current until the availability of a second subsequent release or update, if any, plus six months. At that time, central and FE programming services for the release will be withdrawn.

Contents

Part 1: Functional Summary

Part 1, a functional summary of Release 2, is divided into six sections:

Section 1: Summary of Release 2 of OS/VS1

Section 2: Summary of Release 2 Features

Section 3: New or changed Parameters and Commands for Release 2 of OS/VS1

Section 4: Planning for System Generation

Section 5: New and Improved Hardware Device Support

Section 6: Publication Support

Part 1, Section 1: Summary of OS/VS1 Release 2

Section 1 contains a summary of the features of Release 2 of OS/VS1. A description of these features is given in Section 2. Section 4 contains system generation information.

Section Outline

OS/VS1 Release 2

- Functions
- New CPU and Devices Supported
- Hardware Configuration
- Shared DASD
- Dependencies

OS/VS1 Release 2

Release 2 of VS1 is a functional extension of OS/VS1 Release 1, and is compatible with Release 1 (exceptions are noted in the *Memorandum to OS/VS1 Users*).

The new programming, and hardware support for Release 2 extends VS1 facilities and includes:

- New functions, Supervisor enhancements, and scheduler changes.
- Two new computer models
- A number of new hardware devices

Functions

New functions, and items supported for Release 2 are:

- Supervisor enhancements, and scheduler changes to provide more function.
- Remote Entry Services (RES) - a remote job input extension of Job Entry Subsystem (JES).
- I/O Load Balancing - attempts to equalize I/O contention for a device.
- Dynamic Dispatching - helps to provide optimum use of CPU and I/O resources.
- Fetch Protect - enhances security for the contents of your partition.
- Greenwich Mean Time - provides the use of a time clock independent of local time.
- Automated System Initialization - permits you to initialize your system automatically by using parameters specified in the parameter library.
- Logical Cylinder - allows you to define a unit of allocation for spooling.
- Partition Deactivation/Reactivation - allows you to make any partition eligible or ineligible for deactivation, or to reactivate a partition.
- Reliability, Availability, and Serviceability (RAS) - multiple bit storage errors on System/370 Model 158 are handled, OLTEP now runs in pageable storage, and DEBs (data extent block) are validity checked by the I/O Supervisor.

New CPUs and Devices Supported

Two new CPUs and a number of new devices are supported by Release 2. For a complete list of hardware devices supported, see *VS1 Planning and Use Guide*, GC24-5090. New devices supported for Release 2 and devices with qualified support for Release 1, that now are fully supported, are discussed here.

New CPUs

Two new CPUs are supported by Release 2:

- IBM System/370 Model 158
- IBM System/370 Model 155II

New Devices

The new devices supported by Release 2 are:

- 3505 Card Reader
- 3525 Card Reader Punch
- 3420 Magnetic Tape Unit (now fully supported)
- 3410 Magnetic Tape Unit (now fully supported)
- 3270 Information Display System
- Display Console (Model 158)
- 3213 Console Printer
- 1052-7/2150 Graphic Keyboard Console

VS1 Standard and Optional Features

Figure 1-1 indicates each VS1 feature as standard, or optional.

Feature	Standard	Optional
Supervisor		
Missing Device End Detection	X	
Page Boundary Loading	X	
Dynamic V = R Upper Boundary Support		X
Dump Area	X	
Abend Codes	X	
Password Protected Page File		X
Ordered Seek for the 3330		X
Scheduler		
Start Initiator Command Enhancement	X	
Checkpointing SYSOUT Data Sets		X
Writer Command HOLD Parameter (no class)	X	
Display Requests Command USER Parameter		X
Dump Command	X	
Start Command (national characters)	X	
Output Seperation (end of job)		X
SYSABEND Dump	X	

Feature	Standard	Optional
Remote Entry Services (RES)		
Job Queue Dump Extension	X	
Remote Terminal Access Method (RTAM)		X
New Data Sets		X
Data Set Security		X
Reliability, Availability, and Serviceability (RAS)		
Error Checking and Correction (ECC) for Model 158	X	
OLTEP Enhancements	X	
Data Extent Block (DEB) Validity Check		X
I/O Load Balancing		X
Dynamic Dispatching		X
Fetch Protect		X
Greenwich Mean Time	X	
Automatic System Initialization	X	
Logical Cylinder	X	
Partition Deactivation/Reactivation	X	
Multiple Console Support (MCS) Extensions		X
BTAM Support Enhancements		X

Figure 1-1. Features of OS/VS1 Release 2 (Part 1 of 2)

Feature	Standard	Optional
Device Support		
3505 Card Reader		X
3525 Card Reader/Punch		X
3410 Magnetic Tape Unit		X
3420 Magnetic Tape Unit		X
3270 Information Display System		X
Display Console (Model 158)	X	
3213 Console Printer		X
1052-7/2150 Console		X

Figure 1-1. Features of OS/VS1 Release 2 (Part 2 of 2)

Hardware Configuration

The minimum hardware configuration required to execute release 2 of OS/VS1 is:

CPU Size 128K
(includes Dynamic Address Translation, one multiplexer channel, and one selector or block multiplexer channel)

Reader/Punch 1

Printer 1

Direct Access Storage Devices 3*

Console 1

*The direct access devices are three 2314/2319s, or two 3330s. System generation requires one tape drive, and an additional 2314 or 3330. The 3333-1 Disk Storage and Control with its associated director may be used in lieu of the 3330 Disk Storage Units indicated in this publication.

Shared DASD: Release 1 shared DASD support has been extended so that up to four CPUs can now share a pool of 3330 DASDs. For detailed information about shared DASD, refer to *OS/VS1 Planning and Use Guide*, GC24-5090.

Dependencies

Fetch Protect: Fetch protect requires that the CPU have fetch protect support.

Greenwich Mean Time: Greenwich mean time requires that the CPU have the time of day clock.

Part 1, Section 2: Summary of Release 2 Features

This section describes the features that are new or enhanced for Release 2. The features described are:

Supervisor Enhancements

Scheduler Changes

Remote Entry Services (RES)

I/O Load Balancing

Dynamic Dispatching

Fetch Protect

Greenwich Mean Time

Automated System Initialization

Logical Cylinder

Partition Deactivation/Reactivation

Reliability, Availability, and Serviceability (RAS) Enhancements

Multiple Console Support MCS Enhancements

BTAM Support Enhancements

Section Outline

Supervisor Enhancements
- Missing Device End
- Page Boundary Loading
- Dynamic V=R Upper Boundary Support
- Dump Area
- ABEND Codes
- Password Protected Page File
- Ordered Seek for 3330 Disk Storage

Scheduler Changes
- Start Command
- Checkpointing Sysout Data Sets
- Writer Command
- Display R (requests) Command
- Dump Command
- Output Seperation
- SYSABEND Dump
- Define Command
- New Interpreter JCL Parameters
- Job Queue Dump Extensions
- Reply command

Remote Entry Services (RES)
- System Requirements
- Remote Terminal Access Method (RTAM)
- New Data Sets
- Data Set Security

I/O Load Balancing

Dynamic Dipatching

Fetch Protect

Greenwich Mean Time

Automated System Initialization

Logical Cylinder

Partition Deactivation/Reactivation
- Partition Deactivation
- Partition Reactivation

Reliability, Availability, and Serviceability (RAS)
- Error Checking and Correction (ECC)
- OLTEP (On-line Test Executive Program)
- DEB (Data Extent Block) Validity Check

Multiple Console Support (MCS) Extensions

BTAM Support Enhancements

Supervisor Enhancements

Release 2 of OS/VS1 includes the following supervisor modifications.

Missing Device End: The Missing Interrupt Checker task polls the system UCBs (Unit Control Block) at three minute intervals to determine if any device ends, channel ends, or mounts have been pending for more than three minutes. If any are found, an informative message is issued to the operator so that he can take corrective action. For detailed information about missing interupt checking, refer to *OS/VS1 Planning and Use Guide*, GC24-5090.

Page Boundary Loading: The linkage editor PAGE statement is used to align a control section on a page boundary. PAGE statement support is included in Release 2 of VS1. Refer to *OS/VS Linkage Editor and Loader*, GC26-3813, for information about the use of the PAGE statement.

Dynamic V=R (virtual equals real) Upper Boundary Support: The V=R area is a block of virtual storage reserved for the fixed nucleus and programs or control blocks that are not pageable. This area begins at location 0 in virtual storage and ends at an address known as the V=R boundary. For Release 1, the V=R area is equal to 768K or the real storage size of the machine, whichever is less. For Release 2 the V=R area default is equal to 512K or the real storage size of the machine, whichever is less. However, a large system user can specify a V=R area greater than 512K if it is less than or equal to the real storage size of the machine. Allowing large system users to set the size of the V=R area should enhance those environments that have a need to run exceptionally large V=R jobs or applications. To override the V=R boundary default value, specify VR=nnnnnn at system initialization, in response to message IEA101A, (refer to *OS/VS Message Library: VS1 System Messages*, GC38-1001.

Dump Area: 12K bytes of virtual storage are reserved for use by partitions that require extra storage in order to obtain an ABEND dump. In order to use this dump area, the task that causes the ABEND must be the job step task and it must not be running V=R(virtual equals real). Only one job step task may use the dump area at a time. Requests for the dump area while it is being used are queued until it becomes available.

ABEND Codes: Information about the new ABEND codes for Release 2 of OS/VS1 can be found in *OS/VS1 Message Library: System Codes,* GC38-1003.

Password Protected Page File: For Release 1, password protecting a page file data set adversely affected the page file initialization routine. For Release 2, you can password protect the page data set without affecting system integrity. For detailed information about password protecting data sets, see *OS/VS1 Data Management for System Programmers*, GC28-0631.

Ordered Seek: Ordered Seek may now be specified for the 3330 Disk Storage Device. To do this, specify IOREQE=ORDERED for the 3330 Disk Storage Device in the IODEVICE macro instruction at system generation time.

Scheduler Changes

Release 2 of OS/VS1 includes the following Scheduler changes.

Start Command: Parameter RESV=nn specifies an override for the system generated size of Scheduler Work Area Data Set (SWADS) reserve value. For further information about this command, refer to *Operator's Library: OS/VS1 Reference*, GC38-0110. You may now include the three characters (@ # $) in the identifier of the START command. The first character of the identifier must be alphabetic, or one of the three national characters. The remaining characters may be alphanumeric or national. The following example is an acceptable START command format for starting a card reader.

```
S RDR.$AB#@,00C
```

Checkpointing SYSOUT Data Sets: When the writer starts, a numeric parameter in the PARM=parameter field causes the writer to checkpoint sysout data sets at specified intervals. If the parameter is omitted, checkpoints are not taken. For

detail information about checkpointing SYSOUT data sets, see *VS1 Planning and Use Guide*, GC24-5090.

Writer Command: Release 1 of OS/VS1 allows specification of a job class with the HOLD parameter. For Release 2 of OS/VS1 a job class cannot be specified. All jobs go to the SYSOUT HOLD queue for processing. For further information about this command, refer to *Operator's Library: OS/VS1 Reference*, GC38-0110.

Display R (requests) Command: Parameter USER=userid in the DISPLAY R command allows the central operator to display by user outstanding requests of users running under RES (remote entry services). The format of the displayed message in response to this command includes user identification. Up to five outstanding requests are identified on each line.

For further information about this command, refer to *Operator's Library: OS/VS1 RES*, GC28-0330.

User Written Initiator Procedure: If an installation chose to write its own initiator procedure for Release 1, the required DD statement was:

```
//IEFRDER DD DSNAME=&&SWADS,DISP=(NEW,DELETE),
     DCB=(BLKSIZE=176,LRECL=176,RECFM=F),
     UNIT= ,SPACE=( ,( ),,CONTIG)
```

This DD statement is still required for an installation written initiator procedure for Release 2; however, the DCB parameter should not be specified. The UNIT and SPACE parameters are described in *OS/VS1 Planning and Use Guide*, GC24-5090.

Dump Command: The DUMP command allows you to dump selected areas of virtual storage to the SYS1.DUMP data set.

You specify DUMP with an optional operand of up to 100 characters of text. This text appears as the first data record in the SYS1.DUMP data set. You select the area of virtual storage to be dumped by responding to a subsequent system message. The format of this response is described in *OS/VS Message Library: VS1 System Messages,* GC38-1001.

Output Separation: In Release 1, the output seperation function caused seperation records to *precede* each job's output to the system output writer (printer or card punch device). In Release 2, the output seperation function is extended to optionally include seperation records *following* each job's output. The end of job separator function is available for printer destined output only.

The output separator facility of the operating system provides the means of identifying and separating the output of various jobs by writing separation records to the system output data set prior to the writing of each job's output.

For detailed information about output separation, see *OS/VS1 Planning and Use Guide,* GC24-5090.

SYSABEBD Dump: SYSABEND dumps are available for system tasks that terminate abnormally. If the task's procedure contains a SYSABEND DD or a SYSUDUMP DD statement, and the SYS1.DUMP data set is unavailable, a SYSABEND or a SYSUDUMP storage dump is taken for the system task.

Define Command: A partition can now be defined automatically through the use of a member of SYS1.PARMLIB. To redefine partitions automatically, issue the DEFINE command with the parameter PARM=membername. For detailed information, refer to *OS/VS1 Operator's Library: Reference*, GC38-0110.

New Interpreter JCL Parameters: Three new DD parameters, DEST, HOLD, and TERM are included in Release 2. For a description of these parameters, see *Part 1, Section 3*.

Job Queue Dump: By specifying a new response, QID=(id1[,id2...id4]), to the message IMC001A when executing IMCJOBQD, the central operator can control dumping of output job queue data sets. For detailed information, see *Service Aids and OLTEP Messages*, GC38-1006.

REPLY command: The new REPLY command operand

format simplifies operator responses.

- The request identifier may be a single digit without a leading zero.
- After the communications task is initialized during IPL, the single quotes around the operand may be omitted.

Remote Entry Services (RES)

RES, a logical and functional extension of the Job Entry Subsystem (JES), extends the JES functions so that remote terminals can be attached to OS/VS1. With RES you have the capability from a remote terminal (workstation) to:

- Transmit jobs
- Send messages - (communicate with others)
- Route output
- Monitor job and workstation status

RES provides an efficient and convenient method of transmitting jobs from remote devices (workststions) to the OS/VS job stream. Once a job has entered the job stream via RES, execution of the job proceeds under the supervision of the operating system's job management routines. Output data sets created by a job submitted remotely, can be routed to the originating station, to any other station, or to a local writer. RES provides the same batch input and output facilities that are available at the central computer installation. However, it eliminates many of the inconveniences traditionally associated with job processing from a remote location, and provides fast turn-around for people at any location by placing computer facilities close to the source of input via high speed communication lines.

System Requirements: RES requires that the central computer have the following minimum configuration:

- 144K bytes of main storage
- 1 reader/punch
- 1 printer
- 1 console
- BSC (Binary Synchronous Communication) data adapter
- 3 DASD devices, at least two of them must be IBM 3414/2319, or IBM 3330 disk storage devices.. The third drive can be any DASD device that is supported by VS1.

Remote Terminal Access Method (RTAM): RTAM, an optional feature of VS1, is a system access method (not available to the user externally) used by RES. To include RTAM in your VS1 system, specify OPTIONS=REMOTE in the SCHEDULR maco instruction at system generation time. For additional details, see *System Generation Considerations for Release 2.*

The workstations that can be used with RTAM are:

- IBM System/3
- IBM 1130 Computing System
- IBM System/360 Model 20
- IBM System/360 Model 25 and above
- IBM System/370 operating in System/360 mode
- IBM 2770 Data Communications System
- IBM 2780 Data Transmission Terminal

For details about the features required and the options allowed for the various types of workstations and BSC data adapters, see the publication *OS/VS1 RES Workstation User's Guide*, GC28-6879.

New Data Sets: OS/VS1 contains three new data sets that support RES. If you are including RES in your system, use the DATASET macro instruction to allocate space for UADS, BRODCAST, and RMTMAC at system generation. The account facility used for the creation, synchronization, and initialization of UADS and BRODCAST is included in Release 2.

Data Set Security: When your system is operating under

RES, the user attribute data set, SYS1.UADS, ensures security of user access at LOGON time. The maximum control of data set security is achieved if:

a. Passwords are required during LOGON and

b. SYS1.UADS is a password protected data set.

Security is also enhanced by a QID routing mask of 'FF'. This protects a user's output from being routed to another user or to central by the central operator. This routing mask is specified by the system programmer when SYS1.UADS data set is built or updated.

I/O Load Balancing

In Release 1 of OS/VS1, selection of a storage device for a non-specific data set is based on the number of data sets allocated to each I/O device. The assumption is that the fewer the number of data sets on a device, the less the device activity. However, because some data sets are more active than others, the actual activity of a device may not be directly proportional to the number of data sets allocated to that device.

I/O Load Balancing allocates non-specific data sets to devices in such a way as to attempt to equalize the amount of I/O contention for each device. The devices selected for allocation of data sets is based upon information collected by monitoring tape and DASD I/O events. By monitoring the speed of the device, counting the number of I/O events to each device, and comparing different characteristics of the various devices, I/O load balancing attempts to select the best (the device with the least activity) device available for allocation of data sets. I/O load balancing is functional only for data sets that have non-specific device requests. It does not affect the processing of a data set requested on a specific device address or volume serial number.

To include I/O Load Balancing in your system, specify in the SCHEDULR macro instruction:

```
OPTIONS=IOLOADBAL
```

For more information about I/O load balancing, refer to *OS/VS1 Planning and Use Guide*, GC24-5090.

Dynamic Dispatching

This function helps provide optimum use of CPU and I/O resources. Dynamic dispatching alters the dispatching priorities of selected tasks while jobs are executing, so they can use the systems resources more efficiently.

The dispatching priorities for selected tasks indicates the tasks' requirements for I/O and CPU time. These dispatching priorities are calculated by an algorithm that distinguishes between I/O-bound and CPU-bound tasks. Higher priority is given to I/O-bound tasks (higher priority) so that the CPU is available to perform other tasks. Not all tasks need be executed under dynamic dispatching, thus you may specify dynamic dispatching for only some of your partitions. Dynamic dispatching is designed to work best when a job stream contains a random mix of I/O bound and CPU bound tasks.

System generation parameters for dynamic dispatching are discussed in Part 1, Section 4.

For more information about dynamic dispatching, refer to *OS/VS1 Planning and Use Guide*, GC24-5090.

Fetch Protect

Fetch protect provides security for your data by preventing one partition from examining the contents of another partition's storage area. This function protects:

- All virtual storage partitions assigned to job steps, and system tasks, and
- non-key 0 contents of a partition from disclosure to any non-key 0 task operating in another partition.

The PQA and SQA subpools, and the nucleus, are not fetch protected. Therefore, non-key 0 tasks can reference these areas.

Fetch protect is an optional feature of VS1 Release 2, and may be specified at system generation time. The new parameter added to the system generation macro CTRLPROG, for specifying fetch protect is:

SECURITY={FPROT / NOFPROT}

To include fetch protect in your system, the CPU must have fetch protect support. For additional details about this macro see *OS/VS1 System Generation Reference,* GC26-3791.

Greenwich Mean Time

The Greenwich Mean Time (GMT) function provides a time of day (TOD) clock that is independent of local time, and can be changed only at initial program load (IPL) time. Change GMT by responding to message IEA101A with the desired date and clock values, along with the GMT parameter; then press the TOD ENABLE switch.

To initialize the local time clock, establish an offset from the GMT clock value by doing one of the following:

- At system generation time, specify the TZ (time zone) parameter in the CTRLPROG macro.
- At IPL time, respond to message IEA101A, or message IEE055A with the date and clock values, without the GMT parameter.
- After IPL time, use the SET command with the desired date and clock values (GMT cannot be specified as a parameter of the SET command). If the TZ parameter is not specified, a GMT offset of zero is created. This will result in local time being equal to the time on the TOD clock (Greenwich Mean Time).

You can call out the time of day in Greenwich Mean Time (TOD format) by issuing the System/370 STORE CLOCK (STCK) instruction. For more information about setting the GMT (TOD) clock, and establishing a local time offset, refer to *OS/VS Message Library: VS1 System Messages*, GC38-1001.

Automated System Initialization

This standard feature of Release 2 makes the system initialization process more rapid and flexible by significantly reducing the operator's role in the IPL (initial program load) process. You achieve flexibility from the use of SYS1.PARMLIB to hold members that contain the system initialization parameters. By proper selection of parameters, each initialization tailors the system to better meet the needs of the anticipated job mixture.

Before initialization, a system programmer enters the needed parameters and automatic commands into SYS1.PARMLIB members using the IEBUPDTE utility. During initialization, the nucleus initialization program (NIP) requests the operator to "SPECIFY SYSTEM AND/OR SET PARAMETERS". To use automated system initialization, the operator enters (via the console) a reference to the list of SYS1.PARMLIB members to be used. The list of members may be a member of SYS1.PARMLIB, or it may be a card deck. In this way, the operator's role is reduced to a brief response to a system message. In Release 2 NIP supports both manual, and automated system initialization. If you do not invoke automated initialization, the manual entry procedure must be followed.

Automated system initialization requires no changes to system generation options. It is described more fully in the publication *OS/VS1 Planning and Use Guide*, GC24-5090.

Logical Cylinder

The logical cylinder function allows you to use DASD workspace more efficiently under two conditions:

- When your installation consistently processes jobs that use small spool data sets
- When your installation consistently processes jobs that use large spool data sets

If your installation uses spool data sets (JCL, SYSIN, SYSOUT, etc) that consistently vary in size, the default values for logical cylinder definitions (which are set at system generation time), are adequate.

For more efficient use of spool work space (assuming consistently large or small spool data sets), you specify in bytes (via a new keyword parameter of the JESPARMS member of SYS1.PARMLIB) the unit of allocation for spooling. The system converts this byte value to a number of tracks, for each spool device.

If spool data sets are consistently small, and the default value for logical cylinder definition is used, DASD work space may be wasted. With logical cylinder, you can define a smaller unit of allocation to increase spool availability. Conversely, if spool data sets are consistently large, and the default value for logical cylinder definitions is used, extra allocation processing could result. If you define a larger unit of allocation, it will result in fewer spool allocation calls, thus increasing performance.

Note that we emphasize the use of consistently large or consistently small spool data set size before it is advantageous for you to specify a unit of allocation. When spool data sets vary in size, the default value is best.

The default value allows for approximately 28K of DASD work space per allocation. Therefore, your installation should consistently use less than 28K or consistently more than 28K before specifying the unit of allocation.

For detailed information about specifying logical cylinder size, see *OS/VS1 Planning Use Guide,* GC24-5090.

Partition Deactivation/Reactivation

In Release 1 of VS1 any partition, except P0, not executing a virtual=real job can be deactivated by the page supervisor. In Release 2, the deactivation/reactivation activity of the page supervisor can be controlled by the operator. Now the operator can:

- Specify that any partition, not executing a virtual=real job, be eligible for deactivation (default for all partitions except P0).
- Specify that any partition be ineligible for deactivation (default for P0 and partitions executing virtual=real jobs).
- Reactivate a deactivated partition.
- Vary the time function of timed task reactivation. At system wait time the page supervisor uses a value ranging from 0 to 9 seconds, together with a zero paging rate, and suffient real storage availability to attempt to reactivate the highest priority deactivated partition.

  Task reactivation is executed whenever the specified time interval is elapsed, the paging rate is zero, and sufficient real storage is available to reinstate the deactivated task.

Partition Deactivation

At times, the amount of real storage available for paging decreases to a level so low that the partitions currently active cause the system to run inefficiently. That is, each active task requires pages for itself, which in turn causes another task to begin paging, and so forth. This condition is known as "thrashing". For all practical purposes, a system that is thrashing is running only the Page Supervisor task. If at least one active partition is deactivated, the system can run the problem program tasks with less contention for real storage.

If the page supervisor is to prevent thrashing, it must be able to deactivate active tasks. Therefore, the operator should never declare all active partitions to be ineligible for task deactivation. Whenever the operator chooses to reinstate a deactivated partition, he should first ensure that at least one other partition is eligible for task deactivation.

Partition Reactivation

If the operator determines that a partition has been deactivated for a relatively long period of time, there are several actions available.

- Using the DEFINE command, he can specify that the deactivated partition be reactivated for the duration of the job executing in that partition. At job completion, the partition is then elibible for deactivation should a shortage of pages develop again.
- Using the HOLD command, he can hold the job queue. As jobs in the active partitions begin to end, the deactivated partitions can become active and complete their tasks. The queue may then be released, and processing can continue.
- Using the STOP command, he can stop an active partition. Assuming that stopping the partition reduces paging activity, the result is identical to holding the job queue.

- Using the CANCEL command, he can cancel the job in the deactivated partition, stop the deactivated partition, and re-enter the job into the job queue where it can be selected by another partition.

Regardless of the technique used, it is imperative to remember that the partition was deactivated because its activity was detrimental to the system as a whole. With this in mind, it would be wise, in most cases, to stop a deactivated partition after applying one of the above methods.

Detailed information about controlling deactivation or reactivation of partitions may be found in *VS1 Planning and Use Guide,* GC24-5090.

Reliability, Availability, and Serviceability (RAS) Enhancements

Error Checking and Correction (ECC)

The new Initial Program Load (IPL) support for the IBM System/370 Model 158 permits system initialization to survive a machine check caused by a single bit storage error. Since a single bit error is correctable, it is ignored by IPL. Because a multiple bit error cannot be corrected, its occurrence causes the page containing the failing address to be flagged as unusable. If a multiple bit error occurs in the first 256K bytes of storage, IPL assumes that insufficient storage is available to continue initialization. The system enters the wait state, and issues a message to the operator. If the error occurs above the 256K byte level of storage, IPL continues to analyze storage, but sets the size of real storage equal to the highest page boundry below the failing address. The size of usable real storage is then passed to NIP (Nucleus Initialization Program), and the system issues a message related to the location of the storage failure. These messages and suggested operator responses are described in *OS/VS Messgae Library: VS1 System Messages,* GC38-1001.

OLTEP(On-Line Test Executive Program)

Release 1 level of OLTEP in VS1 requires a minimum of 36k of virtual real storage (when 4K OLTs are to be executed), with a minimum CPU size of 160K bytes. Except for the logout analysis program, Release 1 OLTEP executes in virtual equals real storage.

Release 2 level of OLTEP requires a minimum CPU size of 144K and executes in the pageable area of storage. It requires a minimum of 64K of virtual storage for the OLTEP modules, and a minimum of 4K of real storage for the OLTs to be loaded and executed.

DEB Validity Check

DEB (data extent block)validity checking is designed to prevent a user's data set (associated with a given DEB) from being read or modified, either accidentally or intentionally, by another user program. IOS (Input/Output Supervisor) validity checks each DEB (data extent block) passed to it by a non-key zero routine. Although some degree of data set security is achieved by the OPEN and CLOSE functions, it is substantially reduced without the IOS portion of DEB validity checking. DEB validity checking is standard in Release 2. Specification of OPTIONS=NODEBCHK in the CTRLPROG macro instruction removes the IOS portion of DEB validity checking, thus limiting the overall effectiveness.

Multiple Console Support (MCS) Extensions

New facilities have been added to the system display operator console routines of MCS. They are:

- Support for the 3270 Information Display System.
- A new option, *automatic command entry*, that can be initiated either by use of the selector pen or from the program function keyboard (PFK) by an operator command.
- Specifying PFK key numbers by a selector pen command entry.
- The write-to-operator function now includes the multiple line write to operator (MLWTO) support. This allows multiple line messages to be displayed contiguously on all console devices. The MLWTO function can be used to route status display messages to specified display consoles and to output only consoles.
- Dynamic updating of a status display can be initiated by the MONITOR ACTIVE command.

- Specifying an output only mode for a 2260 or a 3270 display console.

If the new PFK (program function keyboard) option is desired, specify DCMLIB as a parameter in the DATASET macro instruction at system generation.

BTAM Support Enhancements

3270 Information Display System

BTAM now supports the IBM 3270 Information Display System for VS1 on all IBM System/370 models. Both local and remote 3270 systems, consisting of control units, display stations, and printers are supported. The remote 3270 system is supported by a combination of READ and WRITE macro instructions for switched point-to-point and nowswitched multipoint binary synchronous communications (BSC) stations and data link end-to-end control characters in output messages. The local 3270 system is supported by a new local type of READ and WRITE macro instructions.

Error recovery procedures for switched point-to-point and nonswitched multipoint BSC stations apply to the remote 3270 system. Error recovery procedures for the local 3270 display stations are included in the input/output supervisor.

For further information about the 3270 Information Display System, refer to *IBM System/370 System Summary*, GA22-7001.

2798 Guidance Display Unit

The 2798 Guidance Display Unit is supported for Release 2 on any IBM System/370 that supports the 2790 Data Communications System. The 2798, with a 16 character alphameric display, can be used for input and output. New parameters for the IODEVICE macro instructions are used to generate tables for the 2798 at system generation time.

For further information about the 2798 Guidance Display Unit, refer to *IBM System/370 System Summary*, GA22-7001.

Part 1, Section 3: New or changed Parameters and Commands in Release 2 of OS/VS1

This section is a summary of system parameters and command changes for:

- JCL statements
- Supervisor macro instructions
- Operator commands

Section Outline

JCL Statements

DD statement

Supervisor Macro Instructions

ATTACH

Operator Commands

DEFINE (changed)
DISPLAY R (requests) (changed)
WRITER (changed)
START (changed)
REPLY (changed)
STOPMN (new)
DUMP (new)
MSGRT (new)

JCL Statements

Release 2 of OS/VS1 contains the following three new optional DD keyword parameters.

DEST allows you to specify the destination of an output data set.

HOLD allows you to put an output data set on the output hold queue.

TERM indicates the presence of an RTAM (remote teleprocessing access method) remote device to the data management OPEN routines.

For detailed information about JCL see *OS/VS1 JCL: Reference*, GC28-0618.

Supervisor Macro Instructions

The ATTACH macro instruction has two new optional parameters.

TQE allows you to specify that a timer queue element be created for a new subtask.

FPREGSA allows you to specify that a floating point register save area be created for a new subtask.

For detailed information about supervisor macro instructions, see *OS/VS Supervisor Services and Macro Instructions*, GC27-6979.

Operator Commands

Four operator commands have been changed for Release 2 ofOS/VS1.

DEFINE: You can specify, via the optional parameter PARM, a member of SYS1.PARMLIB to support partition redefinition or partition reactivation/deactivation.

DISPLAY R (requests): Parameter USER=userid allows the central operator to display by user, outstanding requests of users running under RES (remote entry services).

WRITER: The function of the HOLD parameter has been changed to re-queue the job currently being processed onto the SYSOUT hold queue. The optional SYSOUT class entry is now invalid.

START: When you issue a *Start Initiator command*, the parameter RESV=nn specifies an override for the system generated size of the Scheduler Work Area Data Set (SWADS) reserve value.

You may now include the three national characters (@ # $) in the identifier of the START command operand. The first character of the identifier must be alphabetic, or a national character. The remaining characters may be alphanumeric or national. For example, the following is an acceptable START command format for starting a card reader.

```
S RDR.@A$B#.00C
```

REPLY command: The new REPLY command operand format simplifies operator responses.

- The request identifier may be a single digit without a leading zero.
- After the communications task is initialized during IPL, the single quotes around the operand may be omitted.

There are three new operator commands in Release 2.

STOPMN: You can use the STOPMN command to terminate monitoring activity. The keyword operand specified with STOPMN is the same as the operand specified with the corresponding MONITOR command.

DUMP: The DUMP command allows you to dump selected portions of virtual storage to the SYS1.DUMP data set by specifying 'DUMP' along with an optional text operand of up to 100 characters. This text appears as the first data record in the SYS1.DUMP data set. A selected area of storage is dumped by responding to a subsequent message. The format of the response is described in *OS/VS Message Library: VS1 System Messages,* GC38-1001.

MSGRT: The MSGRT command establishes default routing values for certain options of the DISPLAY, MONITOR, STOPMN, and CONTROL commands. The default will remain in effect until another MSGRT command is entered, and routing defaults presently in effect

can be displayed. This command can be used only on systems that have Multiple Console Support (MCS).

For detailed information about operator commands see *Operator's Library: OS/VS1 Reference,* GC38-0110.

Part1, Section 4: Planning for System Generation

This section contains:

- Considerations for generating a VS1 Release 2 system control program (SCP).
- System generation of Release 2 features.
- System generation macros for VS1.

For detailed information about system generation see *OS/VS1 System Generation Reference,* GC26-3791.

Section Outline

VS1 Release 2 System Generation Considerations

Utility Programs
Starter System Considerations
Component Distribution Libraries
Storage Requirements
Minimum I/O Requirements
Future VSAM Requirements
Programming Requirements Using an Existing VS1 System

System Generation of Release 2 Features

RTAM (remote Terminal Access Method) Generation
Dynamic Dispatching
Greenwich Mean Time (GMT)
Fetch Protect
I/O Load Balancing
DEB Validity Check
Ordered Seek for the 3330 Disk Storage Device

System Generation Macros for VS1

VS1 Release 2 System Generation Considerations

Utility Programs

If you use Release 1 of OS/VS1 as the driving system for generating a Release 2 system, you must use Release 2 level of IBCDASDI or IEHDASDR, and Release 2 level IPLTEXT for initializing the target system pack. This is necessary because the blocksize of the IPL records has been changed for Release 2.

For detailed information about system generation see *OS/VS1 System Generation: Reference,* GC26-3791

Starter System Considerations

The intergrated communications adapter (ICA) feature, on the IBM System/370 Model 135, uses one address for each line, up to a total of eight lines; the beginning address is 001. The IBM 3211 printer, generated in the starter system at addresses 002, 004, and 202, cannot be used on channel 0 in this case. The starter system available in VS1 is distributed on tape to be restored to either a 2314/2319 or 3330 disk storage device.

The starter system, regardless of standard labels or the dual density feature, assumes that all 9-track tapes are written at a density of 800 bpi. To use a 1600 bpi tape, you must specify the density in the DCB parameter of the DD statements for the tape data set. The density must be specified for each job step using the data set. 1600 bpi tapes cannot be used for SYSOUT.

The minimum system configuration for using the starter system is:

- An IBM System/370 Model 135,145,155II, or 158
- 144K bytes of real storage for a 3330 , or 128K bytes of real storage for 2314/2319 DASD (see note below).
- Three 3330, or four 2314/2319 DASDs.
- A 2400 or 3400 magnetic tape unit
- Console device.
- SYSIN device.
- SYSOUT print and punch devices.

Note:
For users of Models 135 or 145 with less than 144K bytes of storage, an alternate nucleus, IEANUC02, on the 2314 starter system must be used. Procedures for loading an alternate nucleus are discussed in OS/VS1 IPL and NIP Logic, SY24-5160. If you are generating a system in 144K of real storage, the default blocksize for the system data sets which are blocked to a full track should not be used. A blocksize smaller than a full track should be specified for the data sets.

The first time a VS1 system is generated, the starter system must be used. The starter system is configured to support the devices listed in Figure 1-2 at the addresses specified. The starter system for performing the first system generation consists of:

- A control program that supports the central processing unit, and I/O devices needed to perform the system generation.
- An assembler and linkage editor.
- The utilities used for data set and volume initialization, and for Stage II processing.

The VS1 SCP is generated in two stages: Stage 1: User coded macro instructions are analyzed for errors. If no errors are found, a job stream is produced for use by Stage II.

Stage II: The job stream produced by Stage I is used to select and process modules from the distribution libraries and optional user-written modules to form a new VS1 system.

Component Distribution Libraries (DLIBS)

The component libraries are distributed on unloaded tapes. These same tapes can then be loaded directly onto two 2314/2319 disks or one 3330 disk.

Storage Requirements

Review the manual *OS/VS1 Storage Estimates,* GC24-5094, before planning your VS1 system.

Minimum I/O Requirements

Figure 1-2 lists the minimum machine requirements for a VS1 system generation. The 3333-1 Disk Storage and Control with its associated director may be used in lieu of the 3330 Disk Storage Units indicated in this publication.

Future VSAM Requirements

If you plan to install VSAM (Virtual Storage Access Method) independent component release when it becomes available, you can save a system generation by specifying VSAM now. See the description of the CTRLPROG macro instruction in *OS/VS1 System Generation Reference,* GC26-3791. For a description of VSAM, refer to *VSAM Planning Guide* ,GC26-3799.

Programming Requirements Using an Existing VS1 System

A starter system provides all the programming support needed to perform a VS1 system generation. If you use an existing VS1 Operating System as the generating system, it must contain the following programming support:

- System Assembler
- Linkage Editor
- IEHDASDR utility program (Release 2 level)
- IEBCOPY utility program
- IEBUPDTE utility program
- * IEHPROGM utility program
- IEHIOSUP utility program
- IFCDIP00 utility program
- IEBEDIT utility program
- IEHLIST utility program
- ASMS and LINKS (in SYS1.PROCLIB)

Note: *If the existing* VS1 *system does not have* SYSSQ *generated as a group name, to identify the tape devices used to load the* DLIB*s, the load deck (1st data file) on the* DLIB *tape must be modified.*

MIN REQD	FUNCTION	Choose from the following					
		DEVICE	Device Address (note 1)				
			MPX CHANNEL	CHAN 1	CHAN 2	CHAN 3	CHAN 4
1,	System Console	3210/3215	009, 01F		209, 21F		
		3158	010, 014				
		3213	011, 015				
1	System Input	2540 Reader	00C		20C		
		3505 Reader	012				
		3525 Rdr/Pch	013				
		2400/3400 (7-Tr-DC)		180, 181	280, 281	380, 381	480, 481
		2400/3400 (9-track)		182, 183, 184	282, 283, 284	382, 383	482, 483
1	Punch or Tape Output	2540 Punch	00D		20D		
		3525 Rdr/Pch	013				
		2400/3400 (7-Tr-DC)		180, 181	280, 281	380, 381	480, 481
		2400/3400 (9-track)		182, 183, 184	282, 283, 284	382, 383	482, 483
1	Print or Tape Output	3211	002, 004		202		
		1403	00E, 00F		20E		
		2400/3400 (7-Tr-DC)		180, 181	280, 281	380, 381	480, 481
		2400/3400 (9-track)		182, 183, 184	282, 283, 284	382, 383	482, 483

Figure 1-2. Minimum I/O Defice Requirements for performing System Generation Using the Starter System (Part 1 of 2)

MIN REQD	FUNCTION	Choose from the following					
		DEVICE	Device Address (note 1)				
			MPX CHANNEL	CHAN 1	CHAN 2	CHAN 3	CHAN 4
1	New System						
		2305-2		1D0			
		2314 (or 2319 on CHAN 1)		130, 131, 132, 133, 134	230, 231, 232 233, 234	330, 331, 332 333, 334	
		3330		150, 151, 152, 153	250, 251, 252 253	350, 351, 352, 353	
3	Starter System and Distribution Libraries	2314 (or 2319 on CHAN 1)		130, 131, 132 133, 134	230, 231, 232, 233, 234	330, 331, 332 333, 334	
2				150, 151, 152, 153	250, 251, 252, 253	350, 351, 352, 353	
See note 2	Three system generation utility data sets and the 3 object program data sets	2305-2		1D0			
		2314 (or 2319 on CHAN 1)		130, 131, 132 133, 134	230, 231, 232, 233, 234	330, 331, 332, 333, 334	
		3330		150, 151, 152, 153	250, 251, 252, 253	350, 351, 352, 353	

Notes:
1. CHAN 1, CHAN 2, CHAN 3, and CHAN 4 are generated as SELECTOR channels.
2. The three system generation utility data sets and the 3 object program data sets do not require additional direct access devices if sufficient space is available on the volumes that contain the new system and the starter system.

Figure 1-2. Minimum I/O Device Requirements for Performing System Using the Starter System (Part 2 of 2)

System Generation of Release 2 Features

A general description of system generation for Release 2 features is given here. For more information about the macro instructions and parameters for these features, refer to *OS/VS1 System Generation Reference*, GC26-3791.

RTAM (Remote Terminal Access Method) Gen-Generation

RTAM is an optional system access method that supports Remote Entry System (RES). If you plan to include RTAM when it is available, specify the following in the SCHEDULR macro instruction:

```
OPTIONS=REMOTE
```

Using the DATASET macro instruction, allocate space for the three RES data sets, UADS, BRODCAST, and RMTMAC.

Having specified the REMOTE option, you may generate RTAM anytime after Stage I of your VS1 system generation. Until RTAM is defined, any attempt to start it will be rejected.

RTAM generation is a two-stage procedure. The Stage I assembly uses your LINE, TERMINAL, and RTAM macro instructions to produce the JCL for Stage II. Stage II executes this JCL to assemble modules and link edit RTAM, and to update the required libraries with RTAM modules tailored to your environment. For a complete description of the RTAM generation procedure, see *RES System Programmers Guide*, GC28-6878.

Dynamic Dispatching

Dynamic dispatching is an optional feature of Release 2; it provides for alterations of dispatching priorities of selected tasks as they are executed. To include Dynamic Dispatching, specify the following in the CTRLPROG macro instruction:

```
DYNPART = (Pn-Pm)
DYNINTR = (a,b,c,d)
```

These parameters specify the partitions assigned to dynamic dispatching, and the priority level of a group of tasks in a dynamic dispatching group. Timeslicing and Dynamic Dispatching are mutually exclusive functions, therefore the parameters DDPART, and TMSLICE should not be specified together in the CTRLPROG macro instruction.

Greenwich Mean Time (GMT)

GMT provides a time of day clock that is independent of local time. You initialize local time by establishing an offset from the GMT clock value. The system default for this offset is established at system generation by specifying in the CTRLPROG macro instruction:

```
TZ = (subparameters)
```

The subparameters specify the local time offset in hours and minutes, either east or west of the Greenwich Meridian. If the TZ parameter is not specified at system generation the system assumes that local time is equal to the value in the TOD (time of day) clock. If specified, the TZ parameter may be overriden at IPL time by responding to message IEA101A, or after IPL time by using the SET command.

Fetch Protect

Fetch protect prevents any user from examining the contents of another user's area of storage. To include fetch protect at system generation time, specify the following in the CTRLPROG macro instruction:

```
SECURITY = FPROT
```

The parameter default is NOFPROT, no fetch protect.

I/O Load Balancing

I/O load balancing allocates non-specific data sets to devices in such a way as to attempt to equalize the amount of I/O contention on each device. To include I/O Load Balancing in your system, specify the following in the SCHEDULR macro instruction:

```
OPTIONS=IOLOADBAL
```

DEB Validity Check

DEB Validity Checking is designed to prevent a user's data set (associated with a given DEB) from being read or modi-

fied, either accidently or intentionally, by another user program. IOS (Input/Output Supervisor) validity checks each DEB (data extent block) passed to it by a non-key zero routine. Although some degree of data set security is achieved by the OPEN and CLOSE functions, it is substantially reduced without the IOS portion of DEB validity checking. Specification of OPTIONS=NODEBCHK in the CTRLPROG macro instruction removes the IOS portion of DEB validity checking, thus limiting the overall effectiveness.

Ordered Seek

Ordered Seek may now be specified for the 3330 Disk Storage Unit.

New Data Sets

You may now use the DATASET macro instruction to allocate space for the following new data sets.

BRODCAST - supports RES
RMTMAC - supports RES
UADS - supports RES
DCMLIB - graphics console support
DSSVM - included for support of DSS (dynamic support system), when it becomes available.
DUMP - user convenience

Systems Generation Macros For VS1

Significant additions and changes to system generation macro instructions and parameters are included in this manual. Read the descriptions in *OS/VS1 System Generation Reference;* GC26-3791, before using these macro instructions.

The system generation macro instructions that are unchanged for Release 2 of OS/VS1 are:

CHANNEL	MACLIB
CKPTREST	PAGE
DATAMGT	PARTITNS
EDITOR	RESMODS
GRAPHICS	SVCLIB
JES	SVCTABLE
LINKLIB	UCS
LOADER	UNITNAME

The VS1 system generation macro instructions that are changed for Release 2 of OS/VS1 are:

CENPROCS
CTRLPROG
DATASET
GENERATE
IODEVICE
SCHEDULR
SECONSLE

Figure 1-3 briefly describes the new and changed system generation macro instruction parameters. The new parameters are underscored for identification.

Macro Instruction	Parameters and Comments
CENPROCS	MODEL: 158R or 155R may be specified as the CPU model. SECMODS: Subparameter ALL (default) specifies that all supported CPU models are to be included.
CTRLPROG	DEBTSZE: Specifies the initial size of the data extent block (DEB) table for DEB validity checking. DEBTINC: Specifies how much the data extent block (DEB) table for validity checking will be expanded if it is too small for a job step. DYNPART: Specifies the partitions for which dynamic dispatching will be used for selected tasks. DYNINTR: Specifies the priority level of a group of tasks in a dynamic dispatching group. OPTIONS: Subparameter NODEBCHK specifies that the IOS portion of data extent block (DEB) checking is not included. SECURITY: Specifies partition fetch-protection. TZ: Specifies the offset from Greenwich Mean Time to establish local time. VSAM: Specifies inclusion (default) or exclusion of VSAM (virtual storage access method).
DATASET	The new system data sets which may be specified are BRODCAST, DCMLIB, DSSVM, DUMP, RMTMAC, and UADS.
GENERATE	OBJPDS1, OBJPDS2, and OBJPDS3: Specify the three partitioned data sets for object modules during Stage II of system generation. INDEX: The qualifier may now have a maximum of six alphameric characters. JCLASS: Specifies the jobclass (A-O) to be used for output from Stage II of system generaiton. If this parameter is not specified a value of A is used. OCLASS: Specifies the output class (A-Z or 0-9) to be used for output from Stage II of system generation. If this parameter is not specified a value of A is used.
IODEVICE	IOREQUE: Subparameter ORDERED may now be specified for the 3330. UNIT: For system generation information about new device support for Release 2 refer to OS/VS1 System Generaton Reference, GC26-3791-1.

Figure 1-3. New and changed system generation macro instructions for Release 2 of OS/VS1 (Part 1 of 2)

Note:
VSAM and DSS are included to assist you in planning for a future system component. By specifying these items now, you may avoid an additional system generation, when the component becomes available.

Macro Instruction	Parameters and Comments
SCHEDULR	AREA: Specifies the dimensions of status display areas for the screen of the console specified in the CONSOLE parameter. BCLMT: Specifies the number of 130-byte records set aside for broadcast messages in SYS1. BRODCAST. IOC: Specifies the unit address of a 3158, 3210, or 3215 if the master console is not one of these three, otherwise this parameter is not needed. OPTIONS: Subparameter IOLOADBAL specifies that I/O load balancing will be included in the system. Subparameter REMOTE conditions the system to allow subsequent RTAM (Remote Terminal Access Method) generation. PFK: Specifies that the console is to have programmed-function-keyboard (PFK) command entry and/or light pen command entry.
SECONSLE	AREA: Specifies the dimensions of status display areas for the screen of the console specified in the CONSOLE parameter. PFK: Specifies that the console is to have programmed-function-keyboard (PFK) command entry and/or light pen command entry. USE: Specifies the display (CRT) console type to be used.

Figure 1-3. New and changed system generation macro instructions for Release 2 of OS/VS1 (Part 2 of 2)

Part 1, Section 5: New and Improved Hardware Device Support

This section contains a summary of hardware device support that is new or expanded in Release 2.

Section Outline

3505 Card Reader
3525 Card Reader/Punch
3420 Magnetic Tape Unit
3410 Magnetic Tape Unit
3270 Information Display System
Display Console (Model 158)
3213 Console Printer
1052-7/2150 Console

New Hardware Support

VS1 now supports the following hardware devices.

3505 Card Reader

The 3505 reads cards at a speed of 840 or 1200 cards per minute depending upon the model used. The Optical Mark Read (OMR) feature reads marks optically, and the Read Column Eliminate (RCE) feature prevents reading of selected card columns. The 3505 has program controlled stacker selection and the ability to read cards punched in column binary.

3525 Card Reader/Punch

This device can perform combinations of reading, printing, and punching operations at speeds of 100, 200, or 300 cards per minute, depending on the model used. The read column eliminate (RCE) feature prevents reading of selected card columns. The 3525 has program control of stacker selection, the columns to be punched, and the lines to be printed. It also reads cards punched in column binary.

3420 Magnetic Tape Unit

Support for this device now includes sense information for the 3420. The available models provide tape speeds of 75, 125, and 200 inches per second, with a bit density of 1600 bits per inch and a 0.6 inch interblock gap. Automatic threading and loading are standard.

3410 Magnetic Tape Unit

This device is now fully supported. The available models provide tape speeds of 12.5, 25, and 50 inches per second, with a bit density of 1600 bits per inch.

3270 Information Display System

Release 2 supports the IBM 3270 Information Display System on all models of IBM System/360 and IBM System/370. It supports both local and remote 3270 systems, consisting of control units, display stations, and printers. For further discussion of the IBM 3270 Information Display System, see *MCS (multiple console support) and BTAM* in Section 2.

Display Console (Model 158)

This console features a cathode ray tube (CRT) display and a keyboard. It can display up to 25 eighty-character lines, referred to as a frame. The Display Console has a light pen for selecting and activating functions displayed in a frame. A cursor within the frame indicates the activation of a function by the light pen.

The Display Console operates in both printer-keyboard and display modes. For a discussion of the printer-keyboard mode of operation refer to the description of the 3213 Console Printer in this section. The display mode of operation results in the storage of all lines displayed (as opposed to the printer-keyboard mode of operation which causes each displayed line to be printed).

Formats of the displayed frames are predefined, and are provided by IBM, as an integral part of the 3158 CPU.

3213 Console Printer

This wire matrix printer operates at 85 characters per second, and is a required device on Model 158 VS1 systems. The 3213 is supported as a keyboardless printer only (the Display Console is the primary system console). Its function is to provide hard copy of system communications and alter/display activity.

When the system is operating in the printer-keyboard mode, each line of information is preserved on 3213 hard copy as it is displayed on the Display Console screen. Without the 3213 hard copy, displayed information would be lost as it rolled off the top of the screen.

1052-7/2150 Console

This device serves the IBM System/370 as a duplicate of the operator's CPU controls, located at a remote station. The freestanding 1052-7/2150 provides for mounting of one or two operator control panels.

The 1052-7/2150 Console includes an operator's chair, a program controlled audiable alarm, and an adapter for the IBM 1052 Printer-Keyboard, Model 7.

Part 1, Section 6: Publication Support

This section lists the publications that support Release 2 of OS/VS1.

Section Outline

Major Publications Changes
General Publications
System Publications
Operator's Library Publications
Job Management Publications
Supervisor Publications
Data Management Publications
RAS Publications
Message Library Publications
Support Component Publications
Teleprocessing Publications
Information Display System Publications
Remote Entry Publications
OS/VS1 Library Charts

Major Publications Changes

There are several new additions, revisions, and TNLs to the Release 1 level of the VS publications library. Unless they are ordered for a back level release, all publications shipped are at the current level. To keep your system library updated, you should consider System Library Subscription Service (SLSS), available through your IBM marketing representative.

Note: An * preceding the publication name in the following lists indicates that publication is new, a major revision, or has had a TNL written to it since the Release 1 Guide was issued.

General Publications

IBM Data Processing Glossary, GC20-1699

Introduction to Virtual Storage in System/370, GR20-4260

**IBM System/370 System Summary* (OS/VS TNL), GA22-7001-1,2, and TNLs GN22-0439 (-1 only), GN22-0456 (-1 only), and GN22-0457

System Publications

DOS to OS/MFT, OS/MVT, OS/VS1 Management Planning Guide, GC24-5082

**DOS to OS/VS1 Implementation Guide*, GC24-5095-1

**OS/VS1 Planning and Use Guide*, GC24-5090-1

OS/VS Programmer's Reference Digest, GC24-5091-1

**OS/VS1 Release 2 Guide*, GC24-5097

**OS/VS1 Storage Estimates*, GC24-5094-1

**OS/VS1 System Data Areas*, SY28-0605-1

*Operator's Library Publications**

**OS/VS Console Configurations*, GC38-0120-2, and TNL GN24-5458

OS/VS1 CRJE, GC38-0335-0

**OS/VS Display Consoles*, GC38-0255-1

**OS/VS1 Reference*, GC38-0110-1

OS/VS1 RES, GC38330-0

S/370 Mod 135 Operating Procedures, GC38-0005

S/370 Mod 145 Operating Procedures, GC38-0015-1

2403 *S/370 Mod 158 Operating Procedures*, GC38-0025

* *Operator's Library:* is the first line of the title of all Operator's Library books.

Job Management Publications

**OS/VS1 JCL*, GC28-0617-2

**OS/VS JCL Reference*, GC28-0618-1, and TNL GN28-2539

OS/VS JCL Syntax Reference Summary, GX28-0619-1

**OS/VS System Management Facilities (SMF)*, GC35-0004-1 and TNL GN35-0007

**OS/VS1 Job Management Logic*, SY24-5161-1

Supervisor Publications

**OS/VS Supervisor Services and Macro Instructions*, GC27-6979-1, and TNL GN27-1400

**OS/VS1 IPL and NIP Logic*, SY24-5160-1

**OS/VS1 Supervisor Logic*, SY24-5155-1

Data Management Publications

**OS/VS I/O Supervisor Logic*, SY24-5156-1

**OS/VS Checkpoint/Restart*, GC26-3784-1, and TNL GN26-074

**OS/VS Data Management for System Programmers*, GC28-0631-1, and TNL GN26-0759

OS/VS Data Management Macro Instructions, GC26-3793-1, and TNL GN26-0748

OS/VS Data Management Services Guide, GC26-3783-1, and TNL GN26-0749

OS Data Management Services and Macro Instructions for IBM 1419/1275, GC21-5006-2, and TNLs GN26-0744 and GN26-0755

OS Data Management Services and Macro Instructions for IBM 1285/1287/1288, GC21-5004-2, and TNLs GN21-5147 and GN21-7658

**OS/VS Tape Labels*, GC26-3795-0, and TNL GN26-0747, and TNL GN21-7658

**OS/VS BDAM Logic*, SY26-3789-1, and TNL SN26-8029

**OS BSAM Logic for IBM 1419/1275*, GY21-0012-1, and TNLs GN26-8026 and GN26-8034

**OS/VS Catalog Management Logic*, SY35-0003-1, and TNL SN35-0010

**OS/VS Checkpoint/Restart Logic*, SY24-5159-1

**OS/VS DADSM Logic*, SY26-3787-2

OS Data Management Macro Logic for IBM 1285, 1287/1288, GY21-0013-1, and TNLs GN 21-5169 and GN21-7659

**OS/VS ISAM Logic*, SY26-3786-1, and TNL SN26-0830

**OS/VS Open/Close/EOV Logic*, SY26-3785-2

**OS/VS SAM Logic*, SY26-3788-1, and TNL SN26-8028

RAS Publications

**OS/VS1 Debugging Guide*, GC24-5093-1

**OS/VS OLTEP*, GC28-0666-0

**OS/VS Service Aids*, GC28-0633-1, and TNL GN28-2540

**OS/VS1 OLTEP Logic*, SY28-0662-0

OS/VS Service Aids Reference Summary, GX28-0634-1

**OS/VS Recovery Management Support Logic*, SY27-7239-1

**OS/VS1 Service Aids Logic*, SY28-0635-0, and TNL SN28-2541

**OS/VS SYS1.LOGREC Error Recording*, GC28-0638-1

**OS/VS SYS1.LOGREC Error Recording, LOGIC*, SY28-0639-1

Message Library Publications**

**Linkage Editor and Loader Messages*, GC38-1007-1, and TNL GN26-0753

**Routing and Descriptor Codes*, GC38-1004-2

**Service Aids and OLTEP Messages*, GC38-1006-2

**VS1 System Codes*, GC38-1003-1

**VS1 System Messages*, GC38-1001-1

Utility Messages, GC38-1005-1

**RES RTAM and Account Messages*, GC38-1010-0

** *OS/VS Message Library:* is the first line of the title of all Message Library books.

Support Component Publications

OS/VS and DOS/VS Assembler Language, GC33-4010-0, and TNLs GN33-8145, and GN33-8148

OS/VS Assembler Programmer's Guide, GC33-4021-0, and TNLs GN33-8146, and GN33-8150

**OS/VS Linkage Editor and Loader*, GC26-3813-0, and TNL GN26-0752 and TNL GN26-0638

OS/VS System Generation Introduction, GC26-3790-1

**OS/VS1 System Generation Reference*, GC26-3791-1

OS/VS Utilities, GC35-0005-1

OS/VS Assembler Logic, SY33-8041-0 and TNL SN33-8152

**OS/VS Linkage Editor Logic*, SY26-3815-0, and TNL SN26-8033, and TNL SN26-8020

OS/VS Loader Logic, SY26-3814-0, and TNL SN26-8032 and TNL SN26-8022

Utilities Logic, SY35-0005-0, and TNL SN35-0008

Teleprocessing Publications

OS/VS BTAM, GC27-6980-0, and TNL GN27-1397

OS/VS BTAM Logic, SY27-7246-0, and TNL SN27-1398

Information Display System Publications

OS/VS Graphic Programming Services (GPS) for IBM 2250 Display Unit, GC27-6971-0, and TNL GN27-1391

OS/VS Graphic Programming Services (GPS) for IBM 2260 Display Station (Local Attachment), GC27-6972-0, and TNL GN27-1392

OS/VS Graphic Subroutine Package (GSP) for FORTRAN IV, COBOL, and PL/1, GC27-6973-0, and TNL GN27-1393

OS/VS Problem Determination Aids and Messages and Codes for GPS and GSP, GC27-6974-0, and TNL GN27-1394

OS/VS Graphic Access Method Logic, SY27-7240-0, and TNL SN27-1389

OS/VS Graphics Problem Oriented Routines Logic, SY27-7241-0

OS/VS Graphic Subroutine Package (GSP) for FORTRAN IV, COBOL, and PL/1 Logic, SY27-7242-0, and TNL SN27-1390

Remote Entry Publications

OS/MFT, OS/MVT, and OS/VS1 CRJE Terminal User's Guide, GC30-2014-1, and TNL GN28-0597

OS/MFT, OS/MVT, and OS/VS1 CRJE Concepts and Facilities, GC30-2012-1, and TNL GN28-0596

OS/MFT, OS/MVT, and OS/VS1 CRJE System Programmer's Guide, GC30-2016-1, and TNL GN28-0598

OS/MFT, OS/MVT, and OS/VS1 CRJE Logic, GY30-2011-1, and TNL GN28-0599

**OS/VS1 RES Workstation User's Guide*, GC28-6879-0

**OS/VS1 RES System Programmer's Guide*, GC28-6878-0

**OS/VS1 RES RTAM and Workstation Support Logic*, SY28-6849-0 **OS/VS1 RES Account Facility Logic*, SY28-0660-0

OS/VS1 Library Charts

The OS/VS1 Library Chart Directory (Figure 1-4, Part 1 of 6) indicates generally the topic organization of each of the subsequent five charts (Parts 2 through 6). It is also indicative of the prerequisite relationships between topics.

The five detail charts (Parts 2 through 6) use arrows to suggest a reading sequence or information path through the library. Co-requisite relationships between publications are indicated by arrowheads at both ends of the same line (←→). Shading on the detail charts is used in two ways:

1. To group publications according to topic, such as OS/VS Message Library.
2. To designate books that are not an immediate part of the OS/VS1 support documentation (such as the *IBM System/370 Principles of Operation*), shading of individual blocks is used. These books are primarily intended to provide additional introductory, procedural, and reference information.

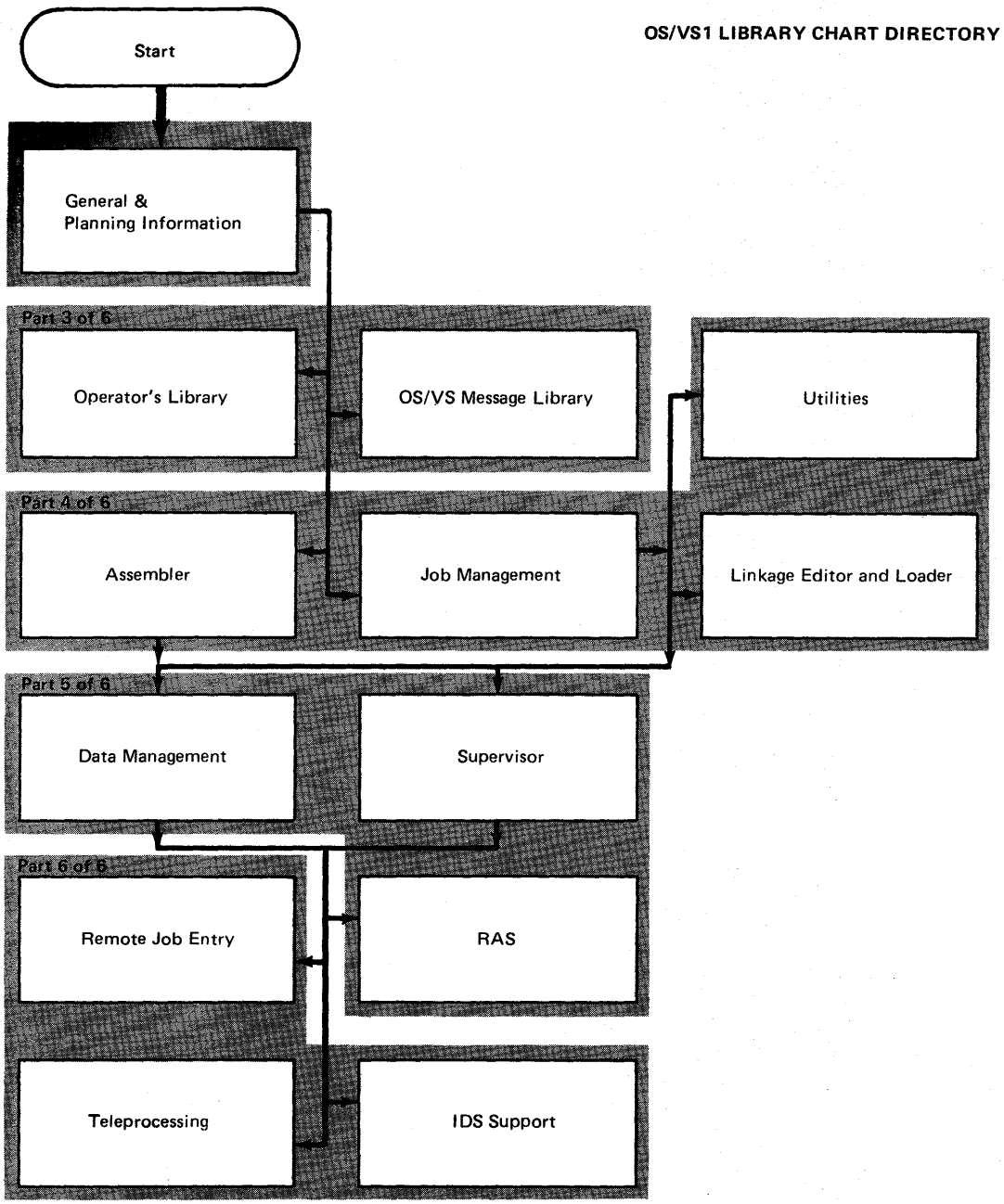

Figure 1-4. OS/VS1 Library Charts (Part 1 of 6)

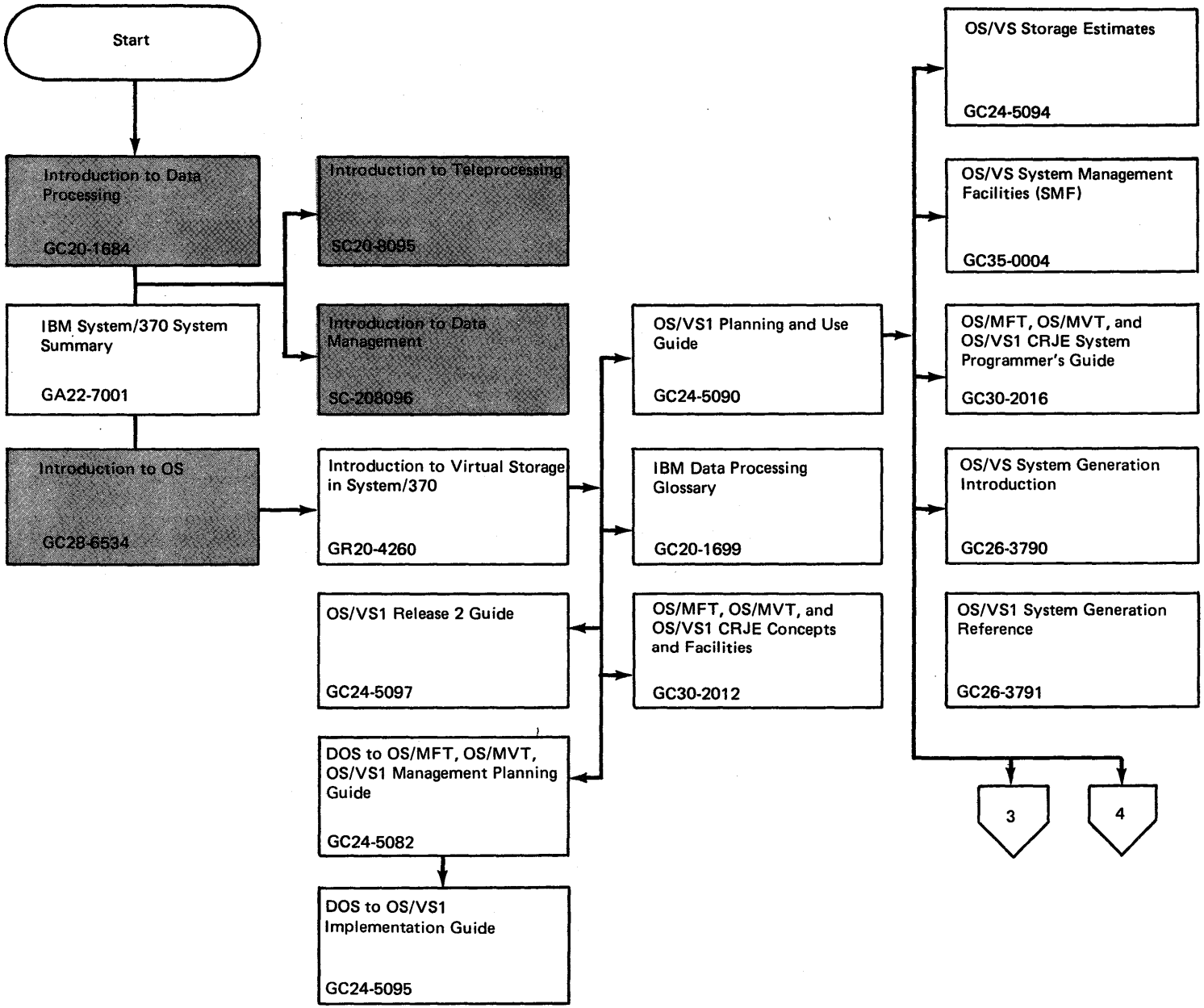

Figure 1-4. OS/VS1 Library Charts (Part 2 of 6)

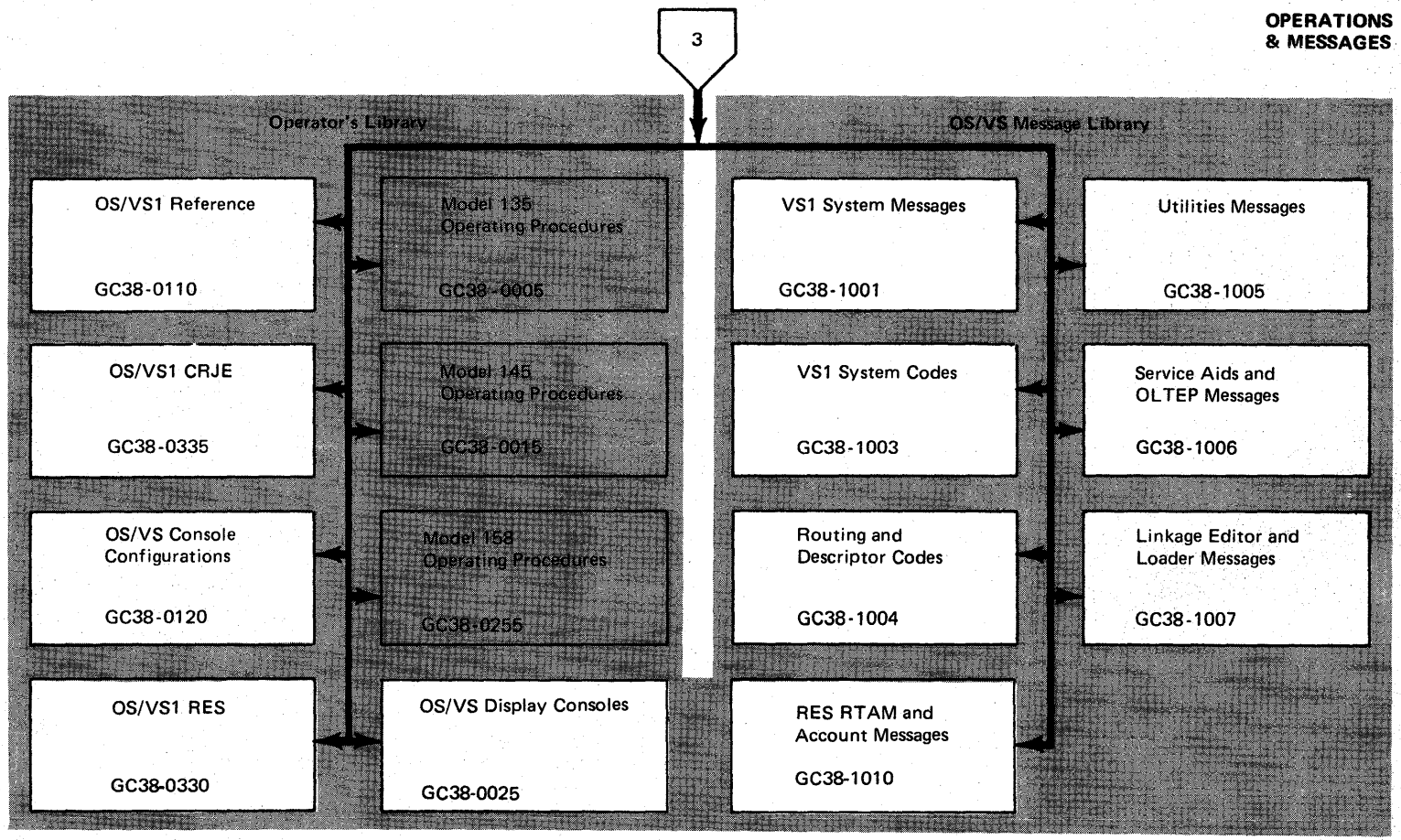

Figure 1-4. OS/VS1 Library Charts (Part 3 of 6)

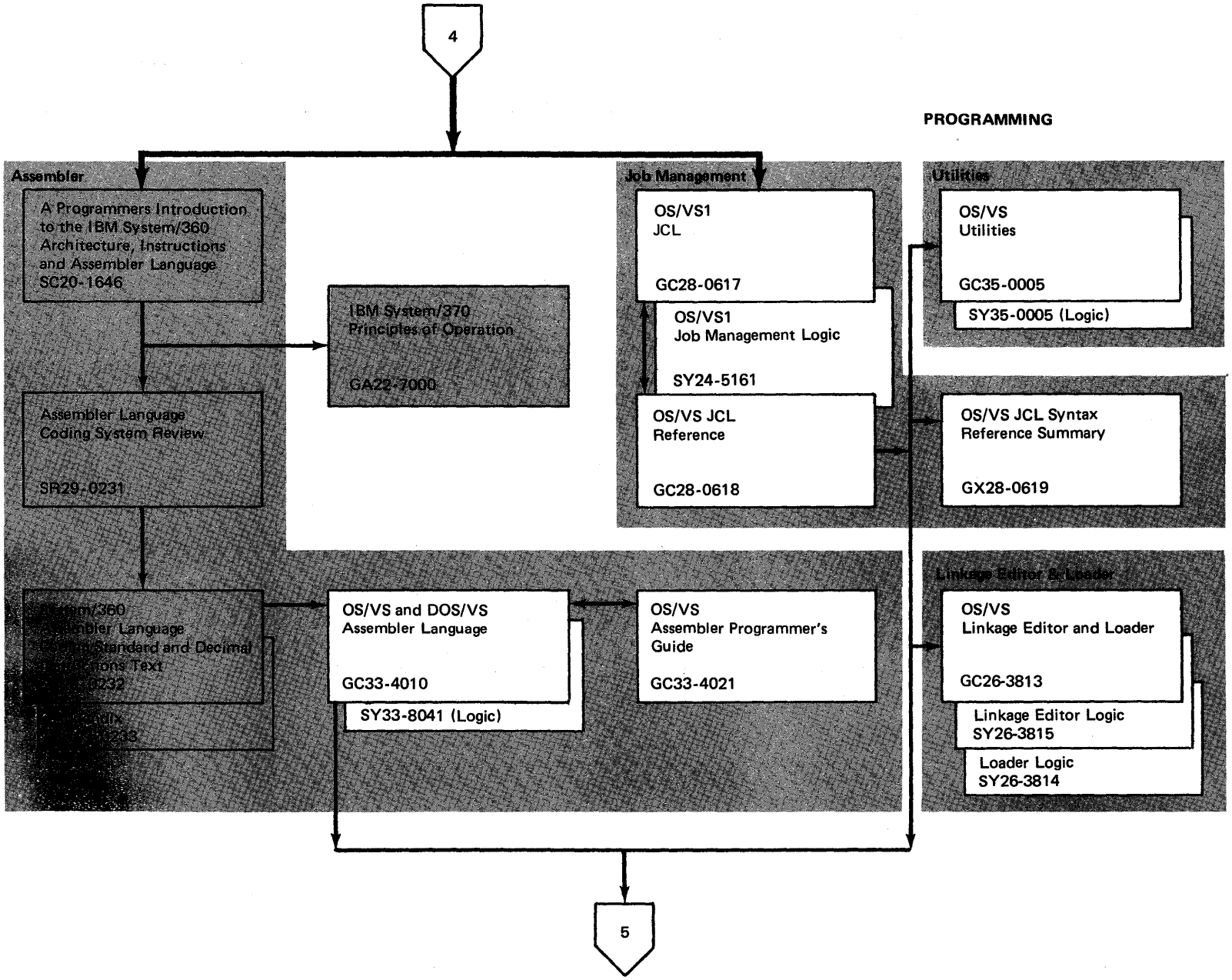

Figure 1-4. OS/VS1 Library Charts (Part 4 of 6)

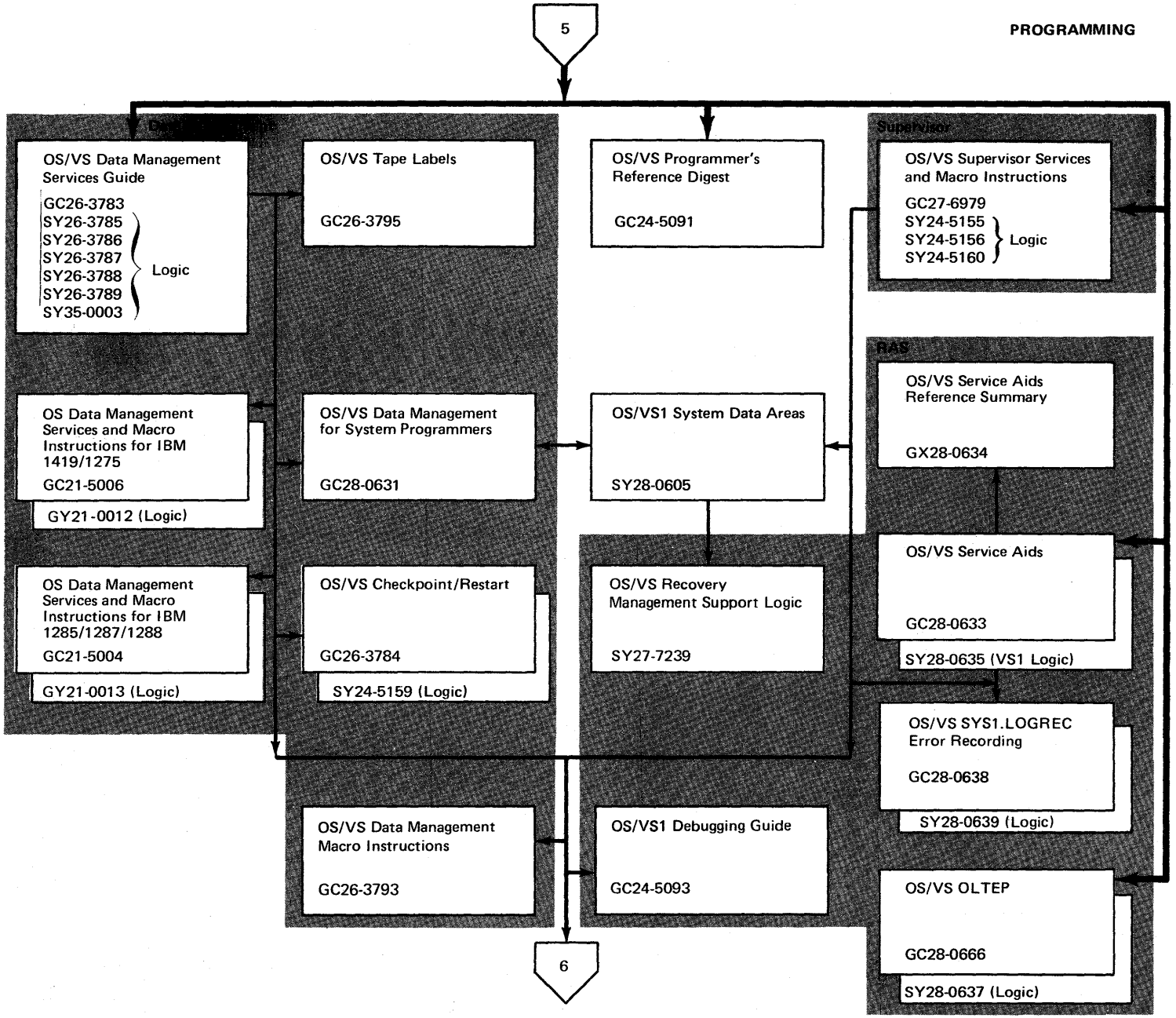

Figure 1-4. OS/VS1 Library Charts (Part 5 of 6)

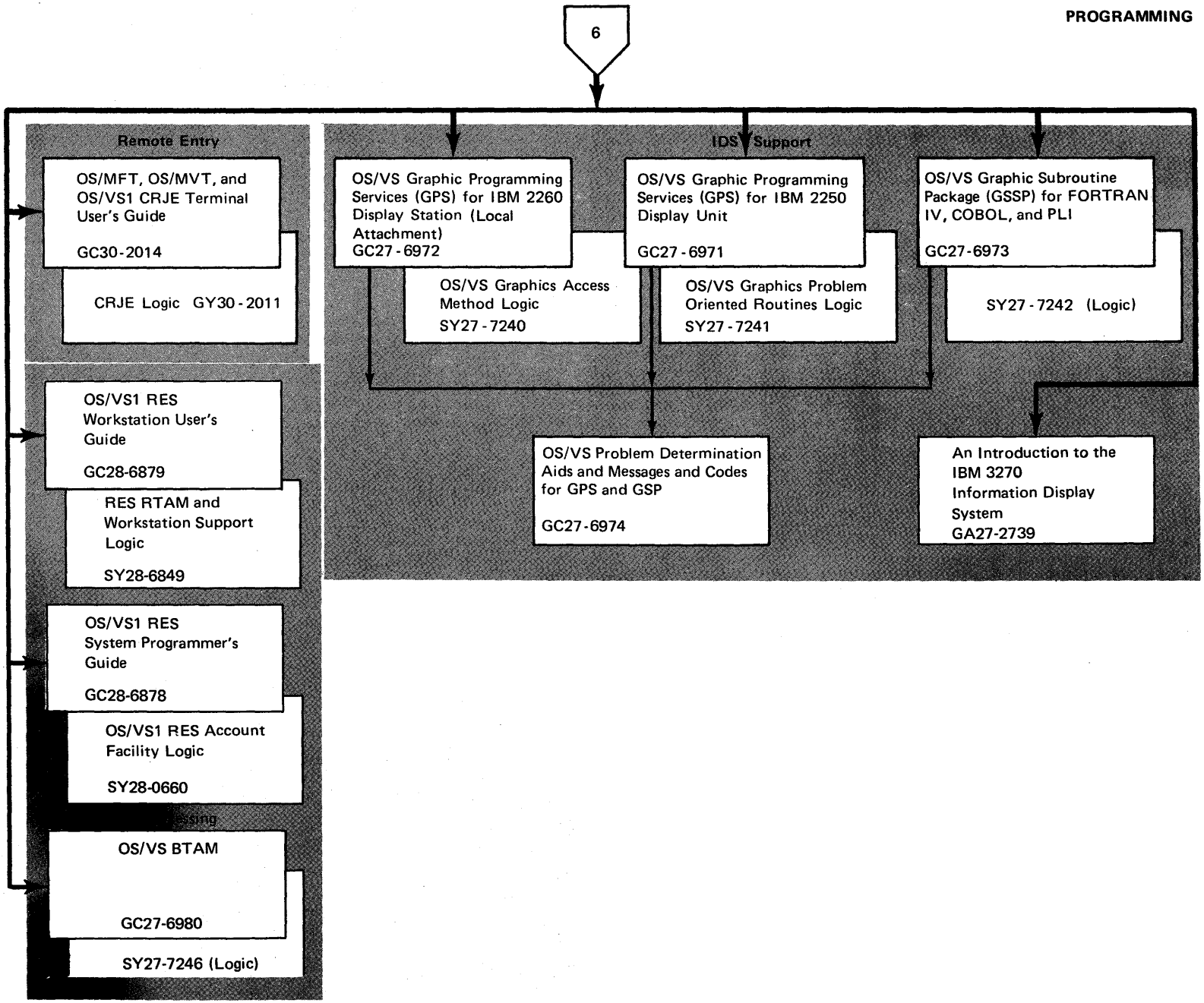

Figure 1-4. OS/VS1 Library Charts (Part 6 of 6)

Part 2: Module Summary

Part 2, a module summary of Release 2, is divided into two sections:

Section 1: Module Directory

Section 2: Module Status

Part 2, Section 1: Module Directory

This directory lists the modules in the VS1 Operating System, and the distribution library in which they reside. For a list of SCP components, and the distribution libraries of which they are part of when shipped, refer to Part 3, Section 4, *Program Material List and Optional Program Material*.

Note 1: *Distribution tape* DLIBT2 *contains only the following libraries.*

SYS1.AGENLIB

SYS1.AMACLIB

SYS1.AMODGEN

Note 2: SYS1.APVTMACS *is not distributed with the system. It must be ordered as optional program material.*

VS1 Component Prefixes

Load modules associated with a specific VS1 component have a common module name prefix. With this list, you can identify component modules shipped in the distribution libraries.

Prefix	Component
HEW	Linkage editor, loader
HHL	Generalized Trace Facility
ICA	3211 stand-alone buffer utility
IEA	Supervisor, I/O supervisor, IPL, NIP
IEB	Data set utility programs
IEC	I/O supervisor
IED	Teleprocessing modules (for planning purposes only)
IEE	Master scheduler
IEF	Job scheduler
IEH	System utility program
IEI	Assembler program during system generation
IEW	Overlay supervisor, program fetch
IFA	Scheduler SMF
IFB	Environment recording routines
IFC	Environmental Recording Edit and Print (EREP)
IFD	On-line test executive program
IFF	Graphic programming services
IFG	Open, close, EOV routines
IFH	Volume statistics report program
IFN	SCP assembler
IFO	SCP assembler
IGC	Transient SVC routines -1 IGEI/O error routines
IGF	Machine check handler and dynamic device reconfiguration
IGG	Access method executors
IGX	Link to transient area for transient SVCs
IHB	Assembler during expansion of supervisor and data management macro instructions
IHJ	Checkpoint/restart
IHK	Conversational remote job entry (CRJE)

SYS1.ACMDLIB

ACCOUNT	IKJEES20	IKJEES40	IKJEFA00	IKJEFA01
IKJEFA10	IKJEFA11	IKJEFA12	IKJEFA13	IKJEFA20
IKJEFA21	IKJEFA22	IKJEFA23	IKJEFA24	IKJEFA30
IKJEFA31	IKJEFA32	IKJEFA40	IKJEFA41	IKJEFA42
IKJEFA51	IKJEFA52	IKJEFA53	IKJEFA54	IKJEFA55

SYS1.AGENLIB

CENPROCS	CHANNEL	CKPTREST	CONVERT	CTRLPROG
CUPOINT	DATAMGT	DATASET	EDITOR	GENERATE
GRAPHICS	IOCHECK	IODEVICE	JES	JOBCARD
LINKLIB	LOADER	MACLIB	PAGE	PARTITNS
RESMODS	SCHEDULR	SECONSLE	SGAMB401	SGASMPAK
SGGBLPAK	SGHEW210	SGHEW260	SGHEW410	SGHEW460
SGHEW560	SGHMA401	SGHMA501	SGHMB401	SGIDA401
SGIDC401	SGIEA2AT	SGIEA2CV	SGIEA2MS	SGIEA2NP
SGIEA2PG	SGIEA2SU	SGIEA2SV	SGIEA2TA	SGIEA2TB
SGIEA2TC	SGIEA2TR	SGIEA2WP	SGIEA3IC	SGIEA3IL
SGIEA3IS	SGIEA3PG	SGIEA5SU	SGIEA5SV	SGIEA6PG
SGIEA6SV	SGIEC2DT	SGIEC2GR	SGIEC2PT	SGIEC2UC
SGIEC202	SGIEC3FB	SGIEC3TP	SGIEC300	SGIEC4UC
SGIEC5DI	SGIEC5DM	SGIEC5IS	SGIEC5PI	SGIEC5PL
SGIEC5PS	SGIEC5PV	SGIEC5TP	SGIEC500	SGIEC513
SGIEC520	SGIEE2DC	SGIEE201	SGIEE301	SGIEE4DC
SGIEF2JS	SGIEF2QM	SGIEF201	SGIEF202	SGIEF211
SGIEF212	SGIEF241	SGIEF4JS	SGIEF441	SGIEF442
SGIEF6JS	SGIEH401	SGIEH402	SGIEH501	SGIEI1CS
SGIEI1DS	SGIEI1I0	SGIEI1SU	SGIEI1SV	SGIEW300
SGIEW401	SGIFB201	SGIFB300	SGIFB400	SGIFB600
SGIFD401	SGIFD501	SGIFF2BM	SGIFF3RN	SGIFF5LS
SGIFF523	SGIFO401	SGIFS501	SGIFS502	SGIGF200
SGIGF300	SGIGF500	SGIGG501	SGIGG502	SGIHB200
SGIHG401	SGIHG501	SGIHJ500	SGIHK402	SGIHK501
SGIHK502	SGIQA400	SGIQA600	SGLEDPK1	SGLEDPK2
SGRELLEV	SGSYSPAK	SGUPDPAK	SVCLIB	SVCTABLE
UCS	UNITNAME			

SYS1.AMACLIB

ABEND	ACB	ANALYZ	AS	ASCTR
ASGNBFR	ASLIST	ASMTRTAB	ATLAS	ATTACH
ATTNINQ	BLDL	BSP	BUFINQ	BUILD
BUILDRCD	CALL	CAMLST	CATALOG	CHAP
CHECK	CHGNTRY	CHKPT	CIRB	CLOSE
CNTRL	CONFIGUR	CRJELINE	CRJETABL	CRJEUSER
CTRGROUP	CTRLIST	CTRSCHED	DAR	DCB
DCBD	DEBCHK	DEFAREA	DEFCCW	DELETE
DEQ	DETACH	DEULIST	DEVTYPE	DFTRMLST
DISPGUID	DOM	DSPLY	DXR	ENQ
EOV	ESETL	EXCP	EXCPVR	EXLST

SYS1.AMACLIB (CONTINUED)

EXTRACT	FEOV	FIND	FREEBUF	FREEDBUF
FREEMAIN	FREEPOOL	GBFLM	GBINF	GBPOS
GBPST	GCNL	GCNOP	GCNTRL	GDCDS
GDPD	GDRD	GDUAS	GDULIST	GDUTRANS
GDV	GECF	GECP	GENSD	GEOS
GEPI2	GEPM	GESD	GET	GETBUF
GETMAIN	GETPOOL	GEVI2	GEVM	GIBLC
GINIT	GMVA	GMVD	GNOP2	GNOP4
GODEL	GPDI	GREAD	GREADR	GSBLC
GSBPOS	GSERV	GSRT	GSXY	GTOD
GTND	GTRACE	GTRU	GTXT	GUSTOR
GWRITE	HMDSADMP	HMDSADM2	IDENTIFY	IECTATNR
IECTDEBX	IECTDECB	IECTIOBX	IECTRDTI	IECTUCB
IECTUCBX	IEZBITS	IFGACB	IFGEXLST	IFGRPL
IHBERMAC	IHBGAM1	IHBGAM2	IHBGAM3	IHBINNRA
IHBINNRB	IHBOPLST	IHBRDWRD	IHBRDWRK	IHBRDWRS
IHBRDWRT	IHB01	IHB02	IHLMGTRC	IKJPSCB
IMDMEDIT	INDEX	IOHALT	LERB	LERPRT
LINK	LOAD	LOCATE	LOPEN	MODESET
NOTE	OACB	OBTAIN	ONLTST	OPEN
PARAMNUM	PARMLIST	PGRLSE	POINT	POST
PROTECT	PRTOV	PUT	PUTX	RDJFCB
RDLNE	READ	RELBUF	RELEX	RELSE
RENAME	REQBUF	RESCN	RESERVE	RESETPL
RETURN	RLSEBFR	RPL	SAEC	SAVE
SCANREQ	SCRATCH	SEGLD	SEGWT	SETL
SETPRT	SMFWTM	SNAP	SPAR	SPIE
STAE	STEND	STIMER	STOW	SYNADAF
SYNADRLS	TESTAUTH	TGROUP	TIME	TPEDIT
TPUT	TRANSLAT	TRLIST	TRNSLATE	TRSLRCTW
TRSLRCT3	TRSLSCTW	TRSLSCT3	TRUNC	TTIMER
TWAIT	WAIT	WAITR	WRITE	WTL
WTO	WTOR	XCTL	XDAP	XLATE

SYS1.AMODGEN

CVT	HOOK	IEAAIH	IEAAMS	IEAANIP
IEAAPS	IEAAPT	IEAATA	IEAATC	IEAAWT
IEABBX	IEACVTPC	IEAPGDR	IEAPGEX	IEAPGPP
IEAPGRC	IEAPGS3Q	IEAPMP	IEAQAT	IEAQCH
IEASMFEX	IEASPLM	IEASPLMS	IEASPL2P	IEATCB
IEATRC	IECDSECT	IECGBL	IECICS	IECILCT
IECINT	IECIOQE	IECIOS	IECIOSB	IECIST
IECIUCB	IECIUCBA	IECLNK1	IECPMP	IECSDSL1
IECSSDA	IECTBL	IECULK1	IECULK2	IECULK3
IECXCP	IECXTCH	IEC23XXF	IEEARM	IEEBASEA
IEEBASEB	IEECDCM	IEECHAIN	IEECRDCM	IEECSUB
IEECUCM	IEECVMUG	IEEDEFIN	IEEEIL	IEEPMP
IEEQCMND	IEEQIDP	IEEQIDT	IEESETLT	IEESMCA
IEETODCL	IEETRCB	IEEXSA	IEFAJCTB	IEFASCTB
IEFBUTBL	IEFJESCT	IEFJFCBN	IEFJFCBX	IEFPMP

SYS1.AMODGEN (CONTINUED)

IEFQMRES	IEFSD032	IEFSD033	IEFSGNOP	IEFSUTBL
IEFTCT	IEFTIOT1	IEFUCBOB	IEFVTIOT	IEFWAPRM
IEFZB412	IEWPMP	IEZATTCH	IEZCIB	IEZDEB
IEZIOB	IEZJSCB	IEZXRB	IFASMFR	IFSBPL
IFSRESCT	IGFRVT	IHAAPCB	IHACCWST	IHAECB
IHAFLC	IHAJPRMS	IHAPCB	IHAPDDT	IHAPDS
IHAPGIOB	IHAPGSDA	IHAPGSPM	IHAPSIA	IHAPSW
IHAPTE	IHARB	IHARST	IHASMFB	IHAWQE
IHBABCTL	IHBDDCE	IHBPCVT	IHBPSINR	IHBRELNO
IHBTSCE	IHBXLE	IHBXLENT	IHBXLIN	IHBXLOUT
IHBXLTAB	IHLPMP	IKJTCB	IORMSCOM	IOSGNIP
IQADSV	IQAPFX	MGCR	MODID	PGFIX
PGFREE	PGLOAD	QEDIT	SCBDUMP	SDUMP
SGDEBCHK	SGHEW011	SGHEW060	SGIECODT	SGIECOUC
SGIEEOVR	SGIEEOVV	SGIEF0QM	SGIEF002	SGIEF010
SGIEF011	SGIEF012	SGIEF013	SGIEF043	SGIEF060
SGIFB000	SGIFFOBT	SGIHB000	SYNCH	

SYS1.AOSA0

IDA019C1	IDA019L1	IDA019RN	IDAQ19R6	IDA019R7
IDA019R9	IDA0192A	IDA0192G	IDA0192I	IDA0192P
IDA0192V	IDA0200S	IDA0200T	IDA0231T	IDA0557A
IGGOCLAB	IGGOCLAC	IGGOCLAH	IGGOCLA1	IGGOCLC9

SYS1.AOSBB

IFSGEN	IFSLETR	IFSRMT	IFSSYS3	IGG0196T
IGG0201L	IKJRBBCM	IKJRBBCR	IKJRBBMC	IKJRBBMG
IKJRBBMI	IKJRBBMP			

SYS1.AOSB0

IEFBMGET	IEFBMINT	IEFBMPUR	IEFBMPUT	IEFMSGJP
IEFORMAT	IEFOSC01	IEFOSC02	IEFOSC03	IEFOSC04
IEFOSC05	IEFOSC06	IEFOSC07	IEFOSC08	IEFQMAPG
IEFQMJ01	IEFQMJ02	IEFQMJ03	IEFQMMAC	IEFQMMSG
IEFQR6SD	IEFSDXXX	IEFSD055	IEFSD079	IEFSD080
IEFSD082	IEFSD083	IEFSD084	IEFSD089	IEFSD095
IEFSD311	IEFSMCLD	IEFSMEND	IEFSMFSO	IEFSMGET
IEFSMIFC	IEFSMINT	IEFSMODS	IEFSMPUT	IEFSMREP
IEFVMA	IEFVMB	IEFVMC	IEFVMD	IEFVME
IEFWAALC	IEFWAA01	IEFWAA02	IEFWAA03	IEFWAA04
IEFWAMAP	IEFWAMGR	IEFWAMIN	IEFWAMSG	IEFWARIN

SYS1.AOSB3

IEECB860	IEECIR50	IEECIR51	IEEDFINA	IEEDFIN1
IEEDFIN2	IEEDFIN3	IEEDFIN4	IEEDFIN5	IEEDFIN6
IEEDFIN7	IEEDFIN8	IEELGON	IEELGON1	IEELGON2
IEELIST	IEELIST1	IEELOGWR	IEEMB80Q	IEEMFTIO
IEEPSN	IEEQID	IEERTE	IEERTE1	IEERTE2
IEERTE3	IEESD561	IEESD562	IEESD563	IEESD564
IEESD565	IEESD566	IEESD568	IEESD571	IEESD575
IEESD576	IEESD582	IEEVJCL	IEEVLIN	IEEVLNKT
IEEVMNT1	IEEVMNT2	IEEVRCTL	IEEVRJCL	IEEVSEND
IEEVSMSG	IEEVSND1	IEEVSND2	IEEVSND3	IEEVSND4
IEEVSND5	IEEVSND6	IEEVSND8	IEEVSND9	IEEVSTAR
IEEXEDNA	IEE00110	IEE0303D	IEE0303F	IEE0403D
IEE0403F	IEE0503D	IEE0603D	IEE0903D	IEE1103D
IEE1403D	IEE1603D	IEE1903D	IEE2303D	IEE2903D
IEE3303D	IEE3503D	IEE3703D	IEE3803D	IEE4303D
IEE4403D	IEE4503D	IEE4603D	IEE4703D	IEE4903D
IEE5603D	IEE5903D	IEE60110	IEE6303D	IEE6403D
IEE6503D	IEE6603D	IEE6703D	IEE6803D	IEE6903D
IEE7103D	IEE7203D	IEE7303D	IEE7503D	IEE7603D
IEE7703D	IEE7803D	IEE7903D	IEE8503D	IEE8703D
IEE8803D	IEE8903D	IEE9703D	IEE9803D	IEE9903D
IEFAB400	IEFAB401	IEFAB402	IEFAB403	IEFAB404
IEFAB405	IEFAB406	IEFAB407	IEFAB408	IEFAB410
IEFAB411	IEFAB416	IEFAB417	IEFAB418	IEFAB420
IEFATECB	IEFAVFAK	IEFBR14	IEFCVFAK	IEFDSDRP
IEFDSLST	IEFDSOAL	IEFDSOCP	IEFDSOFB	IEFDSOSM
IEFDSOWR	IEFDSTBL	IEFDSTRT	IEFIDMPM	IEFIDUMP
IEFIIC	IEFINTQA	IEFK1MSG	IEFMCVOL	IEFMF102
IEFMF105	IEFMF106	IEFMF263	IEFNB901	IEFNB902
IEFPARMG	IEFPARMS	IEFPRES	IEFPRTXX	IEFQDELE
IEFQMIFC	IEFQMNQ2	IEFQMRAW	IEFQMSSS	IEFQMUNC
IEFRPREP	IEFRSTRT	IEFSCAN	IEFSDPPT	IEFSD096
IEFSD097	IEFSD101	IEFSD160	IEFSD161	IEFSD162
IEFSD164	IEFSD165	IEFSD166	IEFSD168	IEFSD180
IEFSD195	IEFSD21Q	IEFSD22Q	IEFSD300	IEFSD301
IEFSD302	IEFSD303	IEFSD304	IEFSD305	IEFSD309
IEFSD31Q	IEFSD310	IEFSD312	IEFSD41Q	IEFSD42Q
IEFSD510	IEFSD514	IEFSD515	IEFSD518	IEFSD519
IEFSD536	IEFSD551	IEFSD552	IEFSD567	IEFSD598
IEFSETMG	IEFSETRD	IEFSMR	IEFSTDSC	IEFVDA
IEFVDBSD	IEFVEA	IEFVFA	IEFVFB	IEFVGI
IEFVGK	IEFVGM	IEFVGM1	IEFVGM10	IEFVGM11
IEFVGM12	IEFVGM13	IEFVGM14	IEFVGM15	IEFVGM16
IEFVGM17	IEFVGM18	IEFVGM19	IEFVGM2	IEFVGM3
IEFVGM4	IEFVGM5	IEFVGM6	IEFVGM67	IEFVGM7
IEFVGM70	IEFVGM71	IEFVGM72	IEFVGM76	IEFVGM78
IEFVGM8	IEFVGM9	IEFVGS	IEFVGT	IEFVHA
IEFVHC	IEFVHCB	IEFVHE	IEFVHEB	IEFVHEC
IEFVHF	IEFVHH	IEFVHL	IEFVHM	IEFVHN
IEFVHQ	IEFVH1	IEFVINA	IEFVINB	IEFVINC
IEFVINE	IEFVJA	IEFVJIMP	IEFVJMSG	IEFVKIMP
IEFVKMSG	IEFVMF	IEFVMFAK	IEFVMLK5	IEFVMLS1
IEFVMLS6	IEFVMLS7	IEFVMMS1	IEFVM2LS	IEFVM3LS

SYS1.AOSB3 (CONTINUED)

IEFVM4LS	IEFVM5LS	IEFVM76	IEFVRRC	IEFVRR1
IEFVRR2	IEFVRR3	IEFVSCDO	IEFVSDRA	IEFVSDRD
IEFVSD13	IEFVSPL	IEFWA000	IEFWCFAK	IEFWCIMP
IEFWDFAK	IEFWD000	IEFWD001	IEFWEXTA	IEFWSTRT
IEFWSWIN	IEFWTERM	IEFWTP00	IEFXAFAK	IEFXAMSG
IEFXCSSS	IEFXDPTH	IEFXH000	IEFXJFAK	IEFXJIMP
IEFXJMSG	IEFXKFAK	IEFXKIMP	IEFXKMSG	IEFXTDMY
IEFXTMSG	IEFXT00D	IEFXT002	IEFXT003	IEFXVMSG
IEFXVNSL	IEFXV001	IEFXV002	IEFXV003	IEFX300A
IEFX5FAK	IEFX5000	IEFYNIMP	IEFYNMSG	IEFYPJB3
IEFYPMSG	IEFYSVMS	IEFYTVMS	IEFZAJB3	IEFZGJB1
IEFZGMSG	IEFZGST1	IEFZGST2	IEFZHMSG	IEF065FK
IEF160DM	IEF160FK	IEF161DM	IEF161FK	IEF263FK
IEF300SD	IEF304SD	IEF41FAK	IHK1503D	

SYS1.AOSCA

IECTATTN	IGC0009A	IGC0109A	IGE0000A	IGE0000B
IGE0000D	IGE0000E	IGE0000F	IGE0000G	IGE0000H
IGE0000I	IGE0001A	IGE0001C	IGE00020	IGE0100F
IGE0100I	IGE0101C	IGE0200I	IGE0300I	IGE0400I
IGE0800I	IGE0900I			

SYS1.AOSCD

IFBDCB01	IFBDCB02	IFBSTAT	IFBSTAT0	IFBSTAT1
IFBSTAT2	IFCDIP00	IFCEA155	IFCEA165	IFCEB155
IFCEB165	IFCECUA0	IFCEC155	IFCEC165	IFCED155
IFCED165	IFCEE155	IFCEE165	IFCEF155	IFCEF165
IFCEG155	IFCEIPL0	IFCEI135	IFCEI145	IFCEI155
IFCEJ145	IFCEL155	IFCEMER0	IFCEMER1	IFCEMER2
IFCEMER3	IFCEMER4	IFCEMER5	IFCEM155	IFCEP005
IFCEP007	IFCEP008	IFCEP009	IFCEREP0	IFCETRN0
IFCETRN1	IFCETRN2	IFCETRN3	IFCETRN4	IFCET00B
IFCET002	IFCET003	IFCET004	IFCET005	IFCET006
IFCET008	IFCEUKN0	IFCEVOL0	IFCEXXXA	IFCEXXXB
IFCEXXXC	IFCEXXXD	IFCEXXXX	IFCEXXX0	IFCEXXX1
IFCEXXX2	IFCEXXX3	IFCEXXX4	IFCEXXX5	IFCEXXX6
IFCEXXX7	IFCEXXX8	IFCEXXX9	IFCE0135	IFCE0145
IFCE0155	IFCE0165	IFCE2860	IFCE2870	IFCE2880
IFCMES00	IFCMSG00	IFCRDESM	IFCRDE03	IFCRE002
IFCRE003	IFCSCUA0	IFCSIPL0	IFCSI145	IFCSI155
IFCST00B	IFCST003	IFCST005	IFCST006	IFCST008
IFCSUKN0	IFCSVOL0	IFCSXXXA	IFCSXXXB	IFCSXXXC
IFCSXXXD	IFCSXXXX	IFCSXXX0	IFCSXXX1	IFCSXXX2
IFCSXXX3	IFCSXXX4	IFCSXXX5	IFCSXXX6	IFCSXXX7
IFCSXXX8	IFCSXXX9	IFCS0135	IFCS0145	IFCS0155
IFCS0165	IFCS2860	IFCS2870	IFCS2880	IGC0007F
IGC0107F	IGC0207F	IGC0307F	IGE0025F	IGE0125F
IGE0625F				

SYS1.AOSCE

IGC0008E	IGC0008H	IGC0108E	IGC0208E	IGC0308E
IGC0408E	IGC0508E	IGC0608E	IGC0708E	IGC0808E
IGE0660A	IGFDDRMF	IGFDDR00	IGFDDR10	IGFMCH00
IGFMSB00	IGFTMCHK	IGFTVT00	IGFVCCHC	IGFVCCIN
IGFVCC35	IGFVCC45	IGFVCC55	IGFVCC60	IGFVCC70
IGFVCC80	IGFVDDR2	IGFVDDR3	IGFVMCB1	IGFVMCD0
IGFVMCD1	IGFVMCD4	IGFVMCE0	IGFVMCE1	IGFVMCE2
IGFVMCE3	IGFVMCE4	IGFVMCE5	IGFVMCF0	IGFVMCF1
IGFVMCF2	IGFVMCF3	IGFVMCF4	IGFVMCF6	IGF2403D
IGF2503D				

SYS1.AOSC2

IEWFTMIN	IEWFTPCI	IEWSVOVR	IEWSXOVR	IEWSYOVR

SYS1.AOSC5

HHLMCIH	HHLMCIHF	IEAAAD0A	IEAAAD0B	IEAAAD0C
IEAAAD0D	IEAAAD0E	IEAAAD0F	IEAAAD0K	IEAAAD0L
IEAAAD00	IEAAAD01	IEAAAD02	IEAAAD03	IEAAAD04
IEAAAD05	IEAAEF00	IEAAID00	IEAAPX00	IEAAST00
IEAASY00	IEABXR00	IEACTM0B	IEADTM22	IEADTM23
IEAGAB00	IEAGED02	IEAGENQ1	IEAGENQ2	IEAGPL00
IEAJDL00	IEAMSERB	IEANAM00	IEANIPDR	IEANPRMS
IEANTM0A	IEANTM0C	IEANTM0D	IEANTM0E	IEANTM0H
IEANTM0J	IEANTM0M	IEANTM00	IEANTM01	IEANTM02
IEANTM03	IEANTM04	IEANTM05	IEANTM06	IEANTM07
IEANTM08	IEANTM09	IEAPATCH	IEAPGSAE	IEAPGSBP
IEAPGSCE	IEAPGSDD	IEAPGSDY	IEAPGSFF	IEAPGSFP
IEAPGSIP	IEAPGSPA	IEAPGSPM	IEAPGSQA	IEAPGSRL
IEAPGSVR	IEAPGSWR	IEAPGS00	IEAPTRV	IEAQCB01
IEASPL2	IEASTM11	IEASTM12	IEASTM13	IEASTM14
IEATSAR	IEAVMODE	IEAVTEST	IEAXPALL	IEAXPDXR
IEAXPSIM	IEAXSVRB	IEAOPL00	IEAORT01	IEAOST01
IEAOTI03	IEAOTI04	IECINTRP	IECIOLTS	IECIPR1A
IECIPR1B	IECIPR12	IECURATN	IECURAT1	IEECLCTX
IEECMAWR	IEECMCTR	IEECMCTX	IEECMDOM	IEECMDSV
IEECMOCP	IEECMPMC	IEECMPMP	IEECMPMX	IEECMPM1
IEECMWSV	IEECMWTL	IEECNCTX	IEECOCTX	IEECVCRA
IEECVCRX	IEECVCTE	IEECVCTI	IEECVDOM	IEECVETA
IEECVETC	IEECVETD	IEECVETE	IEECVETF	IEECVETG
IEECVETH	IEECVETJ	IEECVETK	IEECVETP	IEECVETQ
IEECVETR	IEECVETU	IEECVETV	IEECVETW	IEECVETZ
IEECVET1	IEECVET2	IEECVET3	IEECVET4	IEECVET6
IEECVET7	IEECVET8	IEECVET9	IEECVFTA	IEECVFTB
IEECVFTD	IEECVFTG	IEECVFTL	IEECVFTM	IEECVFTN
IEECVFTO	IEECVFTP	IEECVFTQ	IEECVFTR	IEECVFTT
IEECVFT1	IEECVFT2	IEECVGCI	IEECVML3	IEECVML5
IEECVML6	IEECVML7	IEECVOCC	IEECVOCX	IEECXDOM
IEEMFWTO	IEEVRFRX	IEEVROUT	IEEVWTOR	IEE1A03D

SYS1.AOSC5 (CONTINUED)

IEE1B03D	IEE10110	IEE11110	IEE12110	IEE20110
IEE21110	IEE22110	IEE23110	IEE40110	IGC0001G
IGC0003C	IGC0105I	IGC116	IGE0025C	IGE0025D
IGE0025E	IGE0125C	IGE0125E	IGE0225C	IGE0225E
IGE0325C	IGE0425C	IGX00005		

SYS1.AOSC6

IGC0G05B	IGC0G95B	IGC0H05B	IGC0I05B	IGC0J05B
IGC0K05B	IGC0L05B	IGC0M05B	IGC0N05B	IGC0N06C
IGC0P05B	IGC0R05B	IGC0S05B	IGC0T05B	IGC0U05B
IGC0W05B	IGC0506C	IHJACP00	IHJACP01	IHJACP02
IHJACP20	IHJACP25	IHJACP30	IHJACP50	IHJACP70
IHJARS00	IHJARS01	IHJARS20	IHJARS21	IHJARS60

SYS1.AOSD0

EMODVOL1	FCBKSTD1	FCBKSTD2	FCB2STD1	FCB2STD2
IECB8FB1	IECQBFG1	IF	IFGAAABA	IFGAZ016
IFG019RA	IFG019TR	IFG0190P	IFG0190R	IFG0193A
IFG0193B	IFG0193C	IFG0193D	IFG0193E	IFG0194A
IFG0194C	IFG0194D	IFG0194E	IFG0194F	IFG0194G
IFG0194H	IFG0194I	IFG0194J	IFG0195A	IFG0195B
IFG0195C	IFG0195D	IFG0195E	IFG0195F	IFG0195G
IFG0195H	IFG0195J	IFG0195K	IFG0195M	IFG0195N
IFG0195O	IFG0195P	IFG0195T	IFG0195U	IFG0195V
IFG0196J	IFG0196K	IFG0196L	IFG0196M	IFG0196N
IFG0196O	IFG0196P	IFG0196Q	IFG0196T	IFG0196U
IFG0196V	IFG0196W	IFG0196X	IFG0197A	IFG0198N
IFG0199B	IFG0199D	IFG0199E	IFG0199R	IFG020TR
IFG0200P	IFG0200R	IFG0200V	IFG0200W	IFG0200X
IFG0200Y	IFG0200Z	IFG0201R	IFG0202A	IFG0202B
IFG0202G	IFG0202D	IFG0202E	IFG0202F	IFG0202G
IFG0202H	IFG0202I	IFG0202J	IFG0202K	IFG0202L
IFG0202U	IFG0209B	IFG0209D	IFG0209E	IFG0209R
IFG023TR	IFG0230P	IFG0232A	IFG0232D	IFG0232G
IFG0232J	IFG0232M	IFG0232S	IFG0232Y	IFG0232Z
IFG0239B	IFG0239D	IFG0239E	IFG0239R	IFG055TR
IFG0550P	IFG0550R	IFG0551B	IFG0551D	IFG0551F
IFG0551H	IFG0551J	IFG0551L	IFG0551N	IFG0551P
IFG0551R	IFG0551T	IFG0551V	IFG0551X	IFG0551Z
IFG0552B	IFG0552D	IFG0552F	IFG0552H	IFG0552J
IFG0552L	IFG0552N	IFG0552P	IFG0552R	IFG0552T
IFG0552V	IFG0552X	IFG0552Z	IFG0553B	IFG0553D
IFG0553F	IFG0553H	IFG0553P	IFG0553R	IFG0553T
IFG0553V	IFG0553X	IFG0553Z	IFG0554B	IFG0554D
IFG0554J	IFG0554L	IFG0554N	IFG0554P	IFG0554R
IFG0554T	IFG0554V	IFG0554X	IFG0554Z	IFG0555B
IFG0555D	IFG0555F	IFG0555H	IFG0555J	IFG0556B
IFG0559B	IFG0559D	IFG0559E	IFG0559R	IGC0001I

SYS1.AOSD0 (CONTINUED)

IGC0002A	IGC0002B	IGC0002C	IGC0002D	IGC0002E
IGC0002F	IGC0002G	IGC0002H	IGC0002I	IGC00020
IGC0003A	IGC0003B	IGC00030	IGC0005E	IGC0005G
IGC0006D	IGC0006H	IGC0006I	IGC0007H	IGC0008A
IGC0009H	IGC0010C	IGC0010E	IGC0102G	IGC0106H
IGC0107H	IGC0109H	IGC0206H	IGC0209H	IGC0306H
IGC0406H	IGC0506H	IGC0606H	IGC0706H	IGC0806H
IGC0906H	IGE0011C	IGE0011D	IGE0011E	IGGAARPS
IGGR19AE	IGGR19BC	IGGR19BH	IGGR19BK	IGGR19CG
IGGR19CI	IGGR19CJ	IGGR19CU	IGGR19CV	IGGR19CW
IGGR19TV	IGGR19TW	IGGOCLCA	IGGOCLCB	IGGOCLCC
IGGOCLC0	IGGOCLC1	IGGOCLC2	IGGOCLC3	IGGOCLC4
IGGOCLC5	IGGOCLC6	IGGOCLC7	IGGOCLF2	IGG019AA
IGG019AB	IGG019AC	IGG019AD	IGG019AE	IGG019AF
IGG019AG	IGG019AH	IGG019AI	IGG019AJ	IGG019AK
IGG019AL	IGG019AM	IGG019AN	IGG019AQ	IGG019AR
IGG019AT	IGG019AV	IGG019AW	IGG019AX	IGG019BA
IGG019BB	IGG019BC	IGG019BD	IGG019BE	IGG019BF
IGG019BG	IGG019BH	IGG019BI	IGG019BK	IGG019BL
IGG019BM	IGG019BN	IGG019BO	IGG019BP	IGG019BQ
IGG019BU	IGG019BV	IGG019BO	IGG019CA	IGG019CB
IGG019CC	IGG019CD	IGG019CE	IGG019CF	IGG019CG
IGG019CH	IGG019CI	IGG019CJ	IGG019CL	IGG019CM
IGG019CN	IGG019CO	IGG019CP	IGG019CQ	IGG019CR
IGG019CS	IGG019CT	IGG019CU	IGG019CV	IGG019CW
IGG019CX	IGG019CY	IGG019CZ	IGG019C0	IGG019C1
IGG019C2	IGG019C3	IGG019C4	IGG019C6	IGG019DF
IGG019DG	IGG019DH	IGG019DJ	IGG019DK	IGG019DL
IGG019DM	IGG019EA	IGG019EB	IGG019EC	IGG019ED
IGG019EE	IGG019EF	IGG019EI	IGG019EJ	IGG019EK
IGG019FA	IGG019FB	IGG019FD	IGG019FF	IGG019FG
IGG019FH	IGG019FI	IGG019FJ	IGG019FK	IGG019FL
IGG019FM	IGG019FN	IGG019FP	IGG019FQ	IGG019FR
IGG019FS	IGG019FU	IGG019HT	IGG019TC	IGG019TD
IGG019TV	IGG019TW	IGG019T2	IGG019VA	IGG019VB
IGG019VC	IGG019VD	IGG019VE	IGG019VF	IGG019VG
IGG019VH	IGG019VI	IGG019VJ	IGG019VK	IGG019V1
IGG019V2	IGG019V3	IGG019V4	IGG019V5	IGG0190A
IGG0190B	IGG0190R	IGG0190S	IGG0191A	IGG0191B
IGG0191C	IGG0191D	IGG0191E	IGG0191F	IGG0191G
IGG0191H	IGG0191I	IGG0191J	IGG0191K	IGG0191N
IGG0191O	IGG0191P	IGG0191Q	IGG0191R	IGG0191S
IGG0191T	IGG0191U	IGG0191V	IGG0191W	IGG0191X
IGG0191Y	IGG0191Z	IGG01910	IGG01911	IGG01912
IGG01913	IGG01914	IGG01915	IGG01916	IGG01917
IGG01918	IGG01919	IGG01923	IGG01926	IGG0193I
IGG0193K	IGG0196A	IGG0196B	IGG0196I	IGG0196J
IGG0196K	IGG0196L	IGG0196M	IGG0196P	IGG0196U
IGG0196V	IGG0196W	IGG0196X	IGG0196Y	IGG0196Z
IGG0197A	IGG0197B	IGG0197C	IGG0197D	IGG0197E
IGG0197F	IGG0197J	IGG0197K	IGG0197L	IGG0197M
IGG0197N	IGG0197P	IGG0197Q	IGG0197U	IGG0198L
IGG0199F	IGG0199G	IGG0199K	IGG0199O	IGG0199W

SYS1.AOSD0 (CONTINUED)

IGG01990	IGG01991	IGG01992	IGG01993	IGG01994
IGG020D0	IGG020D1	IGG020P1	IGG020P2	IGG020P3
IGG0200B	IGG0200F	IGG0200G	IGG0201A	IGG0201B
IGG0201D	IGG0201M	IGG0201N	IGG0201P	IGG0201R
IGG0201W	IGG0201X	IGG0201Y	IGG0201Z	IGG0203K
IGG0206M	IGG021AB	IGG0210A	IGG029R1	IGG0290A
IGG0290B	IGG0290C	IGG0290D	IGG0290E	IGG0290F
IGG0299A	IGG03001	IGG03002	IGG03003	IGG0325A
IGG0325B	IGG0325C	IGG0325D	IGG0325E	IGG0325F
IGG0325G	IGG0325H	IGG0325J	IGG0325K	IGG0325L
IGG0325M	IGG0325P	IGG0325Q	IGG0325R	IGG0325S
IGG0325T	IGG0325U	IGG0325V	IGG0325W	IGG0325Z
IGG0550B	IGG0550D	IGG0550F	IGG0550H	IGG0550K
IGG0550P	IGG0550S	IGG0551A	IGG0551B	IGG0552K
IGG0553A	IGG0553B	IGG0553C	IGG0553D	IGG0553E
IGG0553F	IGG0553G	IGG08101	IGG08102	IGG08103
IGG08104	OMODVOL1	READPSWD	SECLOADA	

SYS1.AOSD7

IGC0005C	IGGR19DA	IGGR19DB	IGGR19DD	IGGR19KI
IGGR19KK	IGGR19KM	IGGR19KN	IGGR19KO	IGG019BR
IGG019BS	IGG019BT	IGG019DA	IGG019DB	IGG019DC
IGG019DD	IGG019JA	IGG019JB	IGG019KA	IGG019KC
IGG019KE	IGG019KF	IGG019KG	IGG019KH	IGG019KI
IGG019KJ	IGG019KK	IGG019KL	IGG019KM	IGG019KN
IGG019KO	IGG019KQ	IGG019KR	IGG019KU	IGG019KW
IGG019KY	IGG019LA	IGG019LC	IGG019LE	IGG019LG
IGG019LI	IGG0191L	IGG0191M	IGG0193A	IGG0193C
IGG0193E	IGG0193F	IGG0193G	IGG0199L	IGG0203A

SYS1.AOSD8

IGC054	IGG019GA	IGG019GB	IGG019GC	IGG019GD
IGG019GE	IGG019GF	IGG019GG	IGG019GH	IGG019GL
IGG019GM	IGG019GN	IGG019GO	IGG019GV	IGG019GW
IGG019GX	IGG019GY	IGG019GZ	IGG019G0	IGG019G1
IGG019G2	IGG019G3	IGG019G4	IGG019G5	IGG019G6
IGG019G7	IGG019G8	IGG019G9	IGG019HA	IGG019HB
IGG019HC	IGG019HD	IGG019HF	IGG019HG	IGG019HH
IGG019HI	IGG019HJ	IGG019HK	IGG019HL	IGG019HN
IGG019HP	IGG019H3	IGG019H7	IGG019IA	IGG019IB
IGG019IE	IGG019IF	IGG019IM	IGG019IN	IGG019IO
IGG019IX	IGG019IY	IGG019IZ	IGG019I1	IGG019I2
IGG019I9	IGG019JC	IGG019JG	IGG019JH	IGG019JI
IGG019JJ	IGG019JK	IGG019JL	IGG019JM	IGG019JN
IGG019JO	IGG019JP	IGG019JQ	IGG019JR	IGG019JS
IGG019JT	IGG019JU	IGG019JV	IGG019JW	IGG019JX
IGG019J0	IGG019J3	IGG019J6	IGG019J7	IGG0192A
IGG0192B	IGG0192C	IGG0192D	IGG0192E	IGG0192F

SYS1.AOSD8 (CONTINUED)

IGG0192G	IGG0192H	IGG0192I	IGG0192J	IGG0192K
IGG0192L	IGG0192M	IGG0192N	IGG01920	IGG0192P
IGG0192Q	IGG0192R	IGG0192S	IGG0192T	IGG0192U
IGG0192V	IGG0192W	IGG0192X	IGG0192Z	IGG01920
IGG01921	IGG01922	IGG01924	IGG01928	IGG01929
IGG0195D	IGG0195G	IGG0195T	IGG0195U	IGG01950
IGG0196C	IGG0196D	IGG0196G	IGG0202A	IGG0202D
IGG0202I	IGG0202J	IGG0202K	IGG0202L	IGG0202M
IGG0202N	IGG02028	IGG02029	IGG032I1	IGG032I2
IGG032I3	IGG032I4	IGG032I5	IGG032I6	IGG032I7
IGG032I8				

SYS1.AOSG0

ANLZ	GARC	GCGRID	GCPRNT	GLABEL
GOFFSG	GPGRID	GPVGRD	GSDPLT	GSPLOT
GSTOR	GSVPLT	GVARC	IFFABA	IFFANA
IFFCAN01	IFFCAN02	IFFCAN03	IFFPAAST	IFFPBAPR
IFFPCAAR	IFFPDAPL	IFFPEAGR	IFFPFAVA	IFFPGAVP
IFFPHALA	IFFPIAPG	IFFPJAPV	IFFPKADG	IFFPLARE
IFFPPASG	IGC0007A	IGC0007C	IGC0007D	IGC0007E
IGC0107A	IGC0107C	IGC0107D	IGC0207A	IGC070
IGC084	IGE0010A	IGE0010B	IGE0010E	IGE0110B
IGE0110E	IGG0190A	IGG0190B	IGG0190C	IGG0190E
IGG0190J	IGG0190K	IGG0193L	IGG0193Y	IGG0193Z
IGG0203X	IGG0203Y	PENTRK		

SYS1.AOST4

IEEVSDIO	IKJEFF02	IKJEFP00	IKJEFP10	IKJEFP20
IKJEFP30	IKJEFT30	IKJEFT35	IKJEFT40	IKJEFT45
IKJEFT52	IKJEFT53	IKJEFT54	IKJEFT55	IKJEFT56

SYS1.AOSU0

IEBASCAN	IEBBAM	IEBBSCAN	IEBCANAL	IEBCCS02
IEBCMAIN	IEBCNVT	IEBCOMPM	IEBCONH2	IEBCONP2
IEBCONZ2	IEBCQSAM	IEBCRANL	IEBCREAT	IEBCROOT
IEBCULET	IEBDG	IEBDGCUP	IEBDGMSG	IEBDRB
IEBDRD	IEBDSCPY	IEBDSU	IEBDV1	IEBDWR
IEBEDIT	IEBEDIT2	IEBFDANL	IEBFDTBL	IEBGENRT
IEBGENR3	IEBGENS3	IEBGEN03	IEBGMESG	IEBGSCAN
IEBIOE	IEBISAM	IEBISC	IEBISF	IEBISL
IEBISMES	IEBISPL	IEBISSI	IEBISSO	IEBISU
IEBLDUL	IEBLENP2	IEBMCM	IEBMOVE2	IEBPPAL1
IEBPPCH1	IEBPPMSG	IEBPPUN1	IEBRSAM	IEBSCN
IEBTCRIN	IEBTCR02	IEBTCR03	IEBTCR04	IEBTCR05
IEBUPDTE	IEBUPDT2	IEBUPLOG	IEBUPNIT	IEBUPXIT
IEBVCT	IEBVDM	IEBVMS	IEBVTM	IEBVTT

SYS1.AOSUQ (CONTINUED)

IEBWSAM	IEBWSU	IEHATLAS	IEHDANAL	IEHDAOUT
IEHDASDR	IEHDASDS	IEHDCONS	IEHDDATE	IEHDDOIO
IEHDDUMP	IEHDEXCP	IEHDGETA	IEHDIPLI	IEHDLABL
IEHDMSGB	IEHDMSGS	IEHDPASS	IEHDPRNT	IEHDRCVR
IEHDREST	IEHDSCAN	IEHDVTOC	IEHINITT	IEHIOSUP
IEHLIST1	IEHLIST2	IEHLIST3	IEHMESS	IEHMOVE
IEHMVESA	IEHMVESC	IEHMVESE	IEHMVESH	IEHMVESI
IEHMVESJ	IEHMVESK	IEHMVESL	IEHMVESM	IEHMVESN
IEHMVESO	IEHMVESP	IEHMVESQ	IEHMVESR	IEHMVEST
IEHMVESU	IEHMVETG	IEHMVETJ	IEHMVMRY	IEHMVMRZ
IEHMVMSN	IEHMVMSQ	IEHMVMSY	IEHMVMTA	IEHMVMTL
IEHMVSRA	IEHMVSRD	IEHMVSRK	IEHMVSRM	IEHMVSRV
IEHMVSRX	IEHMVSRY	IEHMVSRZ	IEHMVSSF	IEHMVSSS
IEHMVSSV	IEHMVSSX	IEHMVSSY	IEHMVSSZ	IEHMVSTA
IEHMVSTC	IEHMVSTL	IEHMVXSE	IEHMVXSF	IEHPRNT
IEHPROG1	IEHPROG2	IEHPROG3	IEHPROG4	IEHPROG5
IEHSCAN	IFHSTATR	IGC0003I	IGC0008B	IGC0008F
IGC0108B	IGC0208B	IGC0308B	IGE0011A	IGG019C8
IGG019FT	IGG019P7	IGG019P8	IGG019P9	IGG086AE
IGG0860A	IGG0860B	IGG0860C	IGG0860D	

SYS1.AOSOA

IHKAFI	IHKALC	IHKAST	IHKAVT	IHKAWS
IHKBGN	IHKBPM	IHKBSH	IHKBST	IHKCCI
IHKCCS	IHKCC1	IHKCC2	IHKCC3	IHKCC4
IHKCC5	IHKCC6	IHKCC7	IHKCC8	IHKCDP
IHKCGN	IHKCIP	IHKCLN	IHKCMD	IHKDEF
IHKDEQ	IHKDSP	IHKEDT	IHKED1	IHKEND
IHKEOS	IHKERR	IHKEXC	IHKEXF	IHKGCW
IHKGET	IHKINI	IHKIPT	IHKIRL	IHKIRP
IHKLAB	IHKLAD	IHKLAP	IHKLAT	IHKLAY
IHKLDC	IHKLDS	IHKLEW	IHKLGF	IHKLGN
IHKLST	IHKMAA	IHKMGE	IHKMOD	IHKMSG
IHKMUF	IHKNBX	IHKNUM	IHKOPN	IHKOUT
IHKPUT	IHKRER	IHKRNQ	IHKRNR	IHKSAV
IHKSCN	IHKSDQ	IHKSMG	IHKSND	IHKSRV
IHKSTP	IHKSTS	IHKSUB	IHKSYN	IHKTAB
IHKUTM	IHKWTR			

SYS1.AOSOO

IEESMFAL	IEESMFIT	IEESMFI2	IEESMFI3	IEESMFOI
IEESMFOP	IEESMFWT	IEESMF8C	IEFACTFK	IEFACTLK
IEFACTRT	IEFSMFAT	IEFSMFIE	IEFSMFLK	IEFSMFWI
IEFUIV	IEFUJI	IEFUJP	IEFUJV	IEFUSI
IEFUSO	IEFUTL	IEFWAD	IFASMFDP	

SYS1.AOS03

IFNX1A	IFNX1J	IFNX1K	IFNX1S	IFNX2A
IFNX3A	IFNX3B	IFNX3K	IFNX3N	IFNX4D
IFNX4E	IFNX4M	IFNX4N	IFNX4S	IFNX4T
IFNX4V	IFNX5A	IFNX5C	IFNX5D	IFNX5F
IFNX5L	IFNX5M	IFNX5P	IFNX5V	IFNX6A
IFNX6B	IFNX6C	IFOX0A	IFOX0B	IFOX0C
IFOX0D	IFOX0E	IFOX0F	IFOX0G	IFOX0H
IFOX0I	IFOX0J			

SYS1.AOS04

HEWLFADA	HEWLFAPT	HEWLFBTP	HEWLFEND	HEWLFENS
HEWLFENT	HEWLFESD	HEWLFFNL	HEWLFIDR	HEWLFINC
HEWLFINP	HEWLFINT	HEWLFMAP	HEWLFOPT	HEWLFOUT
HEWLFRAT	HEWLFRCG	HEWLFREL	HEWLFROU	HEWLFSCD
HEWLFSCN	HEWLFSYM			

SYS1.AOS05

HEWLDIDY	HEWLDIOC	HEWLDLIB	HEWLDREL	HEWLDRGO
IEWLDRGO	LOADER			

SYS1.AOS06

IFDMSGAJ	IFDMSG00	IFDMSG03	IFDMSG04	IFDMSG05
IFDMSG06	IFDMSG07	IFDMSG08	IFDMSG13	IFDMSG22
IFDMSG31	IFDMSG32	IFDMSG33	IFDMSG37	IFDMSG38
IFDMSG50	IFDMSG53	IFDMSG54	IFDMSG56	IFDMSG61
IFDMSG73	IFDOLTAA	IFDOLTAB	IFDOLTAJ	IFDOLT00
IFDOLT03	IFDOLT04	IFDOLT05	IFDOLT06	IFDOLT07
IFDOLT08	IFDOLT09	IFDOLT10	IFDOLT11	IFDOLT12
IFDOLT13	IFDOLT14	IFDOLT15	IFDOLT16	IFDOLT17
IFDOLT18	IFDOLT21	IFDOLT22	IFDOLT23	IFDOLT24
IFDOLT26	IFDOLT28	IFDOLT29	IFDOLT30	IFDOLT31
IFDOLT32	IFDOLT33	IFDOLT34	IFDOLT35	IFDOLT36
IFDOLT37	IFDOLT38	IFDOLT39	IFDOLT41	IFDOLT42
IFDOLT43	IFDOLT44	IFDOLT46	IFDOLT48	IFDOLT49
IFDOLT50	IFDOLT51	IFDOLT52	IFDOLT53	IFDOLT54
IFDOLT55	IFDOLT56	IFDOLT59	IFDOLT61	IFDOLT73
IFDOLT74	IFDOLT98	IFDOLT99	IGC0005I	IGC0505I
IGC0605I	IGC0905I	IGE0019I	IGE0119I	

SYS1.AOS07

BCNV	GSP01	IFFAAA01	IFFAAA02	IFFAAA03
IFFAAA04	IFFAAA05	IFFAAA06	IFFACA00	IFFACA01
IFFACA02	IFFACA03	IFFACA04	IFFACA05	IFFACA06
IFFACA07	IFFACA08	IFFACA13	IFFACA50	IFFADA01
IFFADA02	IFFADA03	IFFAEA01	IFFAEA02	IFFAEA03

SYS1.AOS07 (CONTINUED)

IFFAEA04	IFFAEA06	IFFAEA07	IFFAFA01	IFFAFA02
IFFAFA03	IFFAFA04	IFFAFA05	IFFAFA06	IFFAFA07
IFFAFA08	IFFAFA09	IFFAFA10	IFFAFA11	IFFAFA12
IFFAFA13	IFFAFA14	IFFAFA15	IFFAFA16	IFFAFA17
IFFAFA18	IFFAFA19	IFFAGA01	IFFAGA02	IFFAGA03
IFFAGA04	IFFAGA05	IFFAGA06	IFFAGA07	IFFAGA08
IFFAHA01	IFFAHA02	IFFAHA03	IFFAHA04	IFFAHA05
IFFAHA06	IFFAHA07	IFFAHA11	IFFAHA12	IFFAHA13
IFFAHA14	IFFAHA15	IFFAHA16	IFFAJA01	IFFAJA02
IFFAJA03	IFFAJA04	IHCGSP01	IHCGSP02	IHCGSP03
IHCGSP04	IHDGSP01	IHDGSP02	IHDGSP03	IHEGSP01
IHEGSP02	IHEGSP03	INGSP	TMGSP	

SYS1.AOS11

HHLGTF01	HHLGTF02	HHLGTF03	HHLGTF11	HHLGTF12
HHLGTF13	HHLINT21	HHLINT22	HHLINT31	HHLINT32
HHLINT41	HHLINT43	HHLRCOV	HHLRMMSG	HHLRMON
HHLRMSTA	HHLROUT	HHLSCAN1	HHLSCMSG	HHLSERV
HHLSERVA	HHLTAIR1	HHLTAIR2	HHLTAR2	HHLTAR3
HHLTAR4	HHLTAR5	HHLTAR6	HHLTCIR	HHLTCTL1
HHLTCTL2	HHLTDCB	HHLTERM	HHLTFIL	HHLTMG1
HHLTMG2	HHLTPED	HHLTPMT	HHLTSCN	HHLTSIO
HHLTSV1	HHLTSV2	HHLTSYNC	HHLTSYSM	HHLTTAB
HHLTUSR	HHLT103	HHLWRAP	HHLWRTE	

SYS1.AOS12

AMBLKCTL	AMBLKERR	AMBLKIDR	AMBLKLDM	AMBLKMSG
AMBLKOBJ	AMBLKSZE	AMBLKXRF	HMAPTFLE	HMAPTF01
HMAPTF02	HMASPZAP	HMBLKCTL	HMBLKERR	HMBLKIDR
HMBLKLDM	HMBLKLPA	HMBLKMSG	HMBLKOBJ	HMBLKSZE
HMBLKXRF	HMDPRAPP	HMDPRCOM	HMDPRCTL	HMDPRDPS
HMDPREAD	HMDPREID	HMDPREXT	HMDPRFLT	HMDPRFMG
HMDPRFRM	HMDPRFSR	HMDPRFUB	HMDPRFUR	HMDPRFXT
HMDPRGET	HMDPRLOD	HMDPRLPA	HMDPRMST	HMDPRNUC
HMDPROOT	HMDPRPAL	HMDPRPCR	HMDPRPDR	HMDPRPJB
HMDPRPMG	HMDPRPMS	HMDPRPPG	HMDPRQCB	HMDPRRDC
HMDPRREC	HMDPRSCN	HMDPRSEG	HMDPRSMG	HMDPRSN2
HMDPRSN3	HMDSALDR	HMDSAMSG	HMDSAPGE	HMDSAPRO
HMDSYS00	HMDSYS01	HMDSYS02	HMDSYS03	HMDSY101
IMAPTFLE	IMASPZAP	IMCJQAPP	IMDUSRFF	IMDUSRF9

SYS1.AOS20

IECTATEN	IECTCHGN	IECTEDIT	IECTLERP	IECTLOPN
IECTONLT	IECTSCAN	IECTSVC	IECTTRNS	IGC0A06F
IGC0B06F	IGC0C06F	IGC0D06F	IGC0E06F	IGC0F06F
IGC0006F	IGC0106F	IGC0206F	IGC0306F	IGC0406F

SYS1.AOS20 (CONTINUED)

IGC0506F	IGC058	IGC0606F	IGC0706F	IGC0806F
IGC0906F	IGC1006F	IGC1106F	IGC1206F	IGC1306F
IGC1406F	IGE0004A	IGE0004B	IGE0004C	IGE0104A
IGE0104B	IGE0104C	IGE0204A	IGE0204B	IGE0204C
IGE0304A	IGE0304B	IGE0304C	IGE0404A	IGE0404B
IGE0404C	IGE0504A	IGE0504B	IGE0504C	IGE0604A
IGE0604B	IGE0604C	IGE0704A	IGE0704B	IGE0704C
IGE0804A	IGE0804B	IGE0804C	IGE0904A	IGE0904C
IGG019LP	IGG019MA	IGG019MB	IGG019MC	IGG019MD
IGG019ME	IGG019MF	IGG019MI	IGG019MJ	IGG019MK
IGG019ML	IGG019MN	IGG019MP	IGG019MR	IGG019MS
IGG019MT	IGG019MU	IGG019MV	IGG019MW	IGG019MX
IGG019MY	IGG019MZ	IGG019M0	IGG019M1	IGG019M2
IGG019M3	IGG019M4	IGG019M5	IGG019M6	IGG019PA
IGG019PB	IGG019PC	IGG019PD	IGG019PE	IGG019PF
IGG019PG	IGG019PH	IGG019PI	IGG019PK	IGG019PL
IGG019PM	IGG019PN	IGG019PO	IGGQ19PP	IGG019PQ
IGG0193M	IGG0193Q	IGG0193S	IGG0194N	IGG0194P
IGG0194Q	IGG0203M			

SYS1.AOS21

IEDQATTN	IEDQEB	IED1303D	IGC0010D	IGC1303D

SYS1.APARMLIB

IEABLD00	IEAIGE00	LNKLST00	SMFDEFLT

SYS1.APROCLIB

ASMFC	ASMFCG	ASMFCL	ASMFCLG	ASMS
DSO	DSOJS	GTF	GTFSNP	IEEVMPCR
IEFREINT	INIT	INITD	INITS	LINKS
LKED	LKEDG	MIC	PRDMP	PTFLE
RDR	RDRT	RMTGEN	WTR	WTRT

SYS1.ARMTMAC

$ABTERM	$ADDPCE	$BRTAB	$CHEK	$CHKAL
$DCB	$DEB	$DECODE	$DECOD1	$DEFINE
$DELPCE	$DISABLE	$DLENGTH	$ENABLE	$EXCP
$EXTP	$FREEBUF	$FREUNIT	$GETBUF	$GETPCE
$GETREC	$GETUNIT	$IFSDEF	$IFSGETQ	$IFSPUTQ
$NPEXIT	$POST	$PUTREC	$QSIZ	$SETPARM
$STIMER	$TRACE	$TTIMER	$UCB	$WAIT
$XXC	IFSCMD	IFSDCT	IFSDEB	IFSIBCT
IFSIFCLO	IFSIFGET	IFSIFOPE	IFSIFPUT	IFSIFRPY

SYS1.ARMTMAC (CONTINUED)

IFSIFSV	IFSIFWTO	IFSINIT	IFSLNMGR	IFSLOGON
IFSNUC	IFSPCE	IFSPGTBS	IFSPREIN	IFSPRPU
IFSPURGE	IFSRB360	IFSRCNS	IFSRCT	IFSREAD
IFSRLOAD	IFSRMTBL	IFSROPTS	IFSRSYS3	IFSRTAB
IFSRTMTB	IFSR1130	IFSSTAE	IFSSTBUF	IFSSYST
IFSTPBUF	IFSTRMAC	IFSTSTBL	IFSUEL	LINE
NULL	PARMD	RTAM	TERMINAL	

SYS1.ASAMPLIB

COBSAMP	DASDI	DUMPREST	GSPSAMP	IBCDASDI
IBCDMPRS	ICAPRTBL	IEAIPL00	IEBDATGN	IFOSAMP
IMCJQAPP	IMCJQMCI	IVPJOBS	PL1SAMP	SAMP2250
SAMP2260	SAMP327L	SAMP327R	SMFEXITS	SMFE15
SMFE35	SMFFRMT	SMFSORT	TESTEXIT	USERLABL

SYS1.ATSOMAC

GETLINE	IKJCPPL	IKJCSOA	IKJCSPL	IKJDAPL
IKJDAP08	IKJDAP2C	IKJECT	IKJENDP	IKJIDENT
IKJIOPL	IKJKEYWD	IKJNAME	IKJPARM	IKJPGPB
IKJPOSIT	IKJPPL	IKJPTPB	IKJRLSA	IKJSTPB
IKJSUBF	IKJTAIE	IKJTAXE	IKJUPT	PUTGET
PUTLINE	STACK	STAX		

Part 2, Section 2: Module Status

This listing indicates the modules that make up VS1 Release 2 and their status.

The listing is arranged by library. Each field contains:

MODULE NAME	The module or alias name for each member.
MOD SIZE	This is the storage size in hexadecimal required for the module.
MOD SIZE CHG.	The amount of change (in hexadecimal) from the prior release (+ for an increase; - for a decrease).
ALS	An 'A' indicates an alias name.
OLD SSI	This is the System Status Index for the prior release.
NEW SSI	This is the System Status Index for this release.
ALIAS TRUE NAME	This is the true module name for this alias. (This field appears only if the module is reentrant and reusable.)

LEVEL 02.0

DSNAME=SYS1.ACMDLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
ACCOUNT	0F68		A		01013007	IKJEFA00
IKJEES20	0370				01013006	
IKJEES40	0FE0				01013007	
IKJEFA00	0F68				01013007	
IKJEFA01	0478				01013010	
IKJEFA10	18B8				01013015	
IKJEFA11	0868				01013011	
IKJEFA12	12E0				01013015	
IKJEFA13	1A40				01013015	
IKJEFA20	16F8				01013015	
IKJEFA21	08F0				01013007	
IKJEFA22	1030				01013015	
IKJEFA23	0DE8				01013008	
IKJEFA24	0FF0				01013016	
IKJEFA30	13F8				01013027	
IKJEFA31	0798				01013027	
IKJEFA32	1940				01013027	
IKJEFA40	1008				01013027	
IKJEFA41	0380				01013027	
IKJEFA42	14E0				01013027	
IKJEFA51	06C8				01013027	
IKJEFA52	0330				01013043	
IKJEFA53	0198				01013027	
IKJEFA54	0208				01013028	
IKJEFA55	0078				01013028	

NO. MODULES 024
NO. ALIAS 001

DSNAME=SYS1.AGENLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
CENPROCS	0000				01031969	
CHANNEL	0000				01031563	
CKPTREST	0000				01031564	
CONVERT	0000				01031564	
CTRLPROG	0000				22810013	
CUPOINT	0000				01031564	
DATAMGT	0000				01031564	
DATASET	0000				23201322	
EDITOR	0000				01031564	
GENERATE	0000				23500010	
GRAPHICS	0000				01031560	
IOCHECK	0000				01031560	
IODEVICE	0000				01032299	
JES	0000				01031561	
JOBCARD	0000				01031561	
LINKLIB	0000				01031561	
LOADER	0000				01031562	
MACLIB	0000				01031605	
PAGE	0000				01031793	
PARTITNS	0000				01031562	
RESMODS	0000				01031562	
SCHEDULR	0000				23370073	
SECONSLE	0000				22930094	
SGAMB401	0000		A		01051568	
SGASMPAK	0000				01031562	
SGGBLPAK	0000				01031683	
SGHEW210	0000				01011563	
SGHEW260	0000				01011568	
SGHEW410	0000				01011563	
SGHEW460	0000				01011568	
SGHEW560	0000				01011568	
SGHMA401	0000				01011789	
SGHMA501	0000				23210092	
SGHMB401	0000				01051568	
SGIDA401	0000				22930009	
SGIDC401	0000				22510432	
SGIEA2AT	0000				02051652	
SGIEA2CV	0000				22940375	
SGIEA2MS	0000				02053540	
SGIEA2NP	0000				22360007	
SGIEA2PG	0000				02032014	
SGIEA2SU	0000				22290083	
SGIEA2SV	0000				02050133	
SGIEA2TA	0000				02050857	
SGIEA2TB	0000				22290087	
SGIEA2TC	0000				02030135	
SGIEA2TR	0000				02053631	
SGIEA2WP	0000				02050859	

LEVEL 02.0

DSNAME=SYS1.AGENLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
SGIEA3IC	0000				23150239	
SGIEA3IL	0000				01052220	
SGIEA3IS	0000				22410260	
SGIEA3PG	0000				02033555	
SGIEA5SU	0000				02051154	
SGIEA5SV	0000				23110334	
SGIEA6PG	0000				02050135	
SGIEA6SV	0000				22900058	
SGIEC2DT	0000				23360099	
SGIEC2GR	0000				03031949	
SGIEC2PT	0000				01012177	
SGIEC2UC	0000				01031564	
SGIEC202	0000				23120208	
SGIEC3FB	0000				01031759	
SGIEC3TP	0000				01012052	
SGIEC300	0000				22690616	
SGIEC4UC	0000				01032506	
SGIEC5DI	0000				01031878	
SGIEC5DM	0000				23330179	
SGIEC5IS	0000				01031941	
SGIEC5PI	0000				01031564	
SGIEC5PL	0000				01031564	
SGIEC5PS	0000				23331042	
SGIEC5PV	0000				23331069	
SGIEC5TP	0000				23270050	
SGIEC500	0000				23110344	
SGIEC513	0000				01011659	
SGIEC520	0000				01012864	
SGIEE2DC	0000				01012241	
SGIEE201	0000				23050308	
SGIEE301	0000				22670107	
SGIEE4DC	0000				01011961	
SGIEF2JS	0000				22340280	
SGIEF2QM	0000				02010133	
SGIEF201	0000				02050135	
SGIEF202	0000				02050135	
SGIEF211	0000				02031959	
SGIEF212	0000				02031727	
SGIEF241	0000				02030135	
SGIEF4JS	0000				22290199	
SGIEF441	0000				23430096	
SGIEF442	0000				23050345	
SGIEF6JS	0000				02050858	
SGIEH401	0000				23251192	
SGIEH402	0000				22900629	
SGIEH501	0000				01031566	
SGIEI1CS	0000				23180850	
SGIEI1DS	0000				23431043	

NO. MODULES 136
NO. ALIAS 001

DSNAME=SYS1.AGENLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
SGIEI1IO	0000				01031567	
SGIEI1SU	0000				23261243	
SGIEI1SV	0000				01032634	
SGIEW300	0000				01032884	
SGIEW401	0000				01032884	
SGIFB201	0000				01033096	
SGIFB300	0000				01033096	
SGIFB400	0000				01032156	
SGIFB600	0000				01031801	
SGIFD401	0000				23392407	
SGIFD501	0000				01010697	
SGIFF2BM	0000				02031559	
SGIFF3RN	0000				04031559	
SGIFF5LS	0000				05031559	
SGIFF523	0000				01031559	
SGIFO401	0000				01012568	
SGIFS501	0000				01052218	
SGIFS502	0000				01052210	
SGIGF200	0000				01031521	
SGIGF300	0000				01032007	
SGIGF500	0000				01032007	
SGIGG501	0000				22510030	
SGIGG502	0000				22510031	
SGIHB200	0000				01012050	
SGIHG401	0000				11012163	
SGIHG501	0000				01012871	
SGIHJ500	0000				01031550	
SGIHK402	0000				01033356	
SGIHK501	0000				01031730	
SGIHK502	0000				01031759	
SGIQA400	0000				22520084	
SGIQA600	0000				01051950	
SGLEDPK1	0000				01031567	
SGLEDPK2	0000				01032838	
SGRELLEV	0000				E2C7 2 8	
SGSYSPAK	0000				01031612	
SGUPDPAK	0000				01031568	
SVCLIB	0000				01031568	
SVCTABLE	0000				01031568	
UCS	0000				01031568	
UNITNAME	0000				01031568	

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DSNAME=SYS1.AMACLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
ABEND	0000				02010903	
ACB	0000				22810016	
ANALYZ	0000				02011657	
AS	0000				02012052	
ASCTR	0000				21762052	
ASGNBFR	0000				01011555	
ASLIST	0000				02012097	
ASMTRTAB	0000				01011627	
ATLAS	0000				01011542	
ATTACH	0000				22290212	
ATTNINQ	0000				02011556	
BLDL	0000				01010604	
BSP	0000				01010604	
BUFINQ	0000				02011556	
BUILD	0000				01010604	
BUILDRCD	0000				01010604	
CALL	0000				02010854	
CAMLST	0000				03013124	
CATALOG	0000				03013139	
CHAP	0000				02010854	
CHECK	0000				22981109	
CHGNTRY	0000				22970154	
CHKPT	0000				02031570	
CIRB	0000				22180221	
CLOSE	0000				01011560	
CNTRL	0000				01010605	
CONFIGUR	0000				02012097	
CRJELINE	0000				22440100	
CRJETABL	0000				01030740	
CRJEUSER	0000				01033210	
CTRGROUP	0000				21762046	
CTRLIST	0000				21762051	
CTRSCHED	0000				21762051	
DAR	0000				01011556	
DCB	0000				23331061	
DCBD	0000				23331062	
DEBCHK	0000				23410853	
DEFAREA	0000				01050552	
DEFCCW	0000				01050552	
DELETE	0000				02010854	
DEQ	0000				02010854	
DETACH	0000				02011534	
DEULIST	0000				02012097	
DEVTYPE	0000				01010606	
DFTRMLST	0000				22970157	
DISPGUID	0000				21762053	
DOM	0000				02011306	
DSPLY	0000				01052865	

DSNAME=SYS1.AMACLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
DXR	0000				02010855	
ENQ	0000				02010854	
EOV	0000				01011560	
ESETL	0000				01010615	
EXCP	0000				23421273	
EXCPVR	0000				23421277	
EXLST	0000				23500009	
EXTRACT	0000				02010855	
FEOV	0000				01011561	
FIND	0000				01010606	
FREEBUF	0000				01010606	
FREEDBUF	0000				01011563	
FREEMAIN	0000				23210297	
FREEPOOL	0000				01010606	
GBFLM	0000				02011556	
GBINF	0000				02011556	
GBPOS	0000				02011557	
GBPST	0000				02011557	
GCNL	0000				02011557	
GCNOP	0000				02011557	
GCNTRL	0000				02011557	
GDCDS	0000				02011557	
GDPD	0000				01011550	
GDRD	0000				01011550	
GDUAS	0000				21762053	
GDULIST	0000				21761871	
GDUTRANS	0000				21762055	
GDV	0000				02011550	
GECF	0000				02011550	
GECP	0000				02011550	
GENSD	0000				01011550	
GEOS	0000				02011551	
GEPI2	0000				01011551	
GEPM	0000				02011551	
GESD	0000				01011559	
GET	0000				22981111	
GETBUF	0000				01010607	
GETMAIN	0000				23210295	
GETPOOL	0000				01010607	
GEVI2	0000				01011551	
GEVM	0000				02011551	
GIBLC	0000				02011551	
GINIT	0000				02011551	
GMVA	0000				01011551	
GMVD	0000				01011552	
GNOP2	0000				02011552	
GNOP4	0000				02011657	
GODEL	0000				02011657	

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DSNAME=SYS1.AMACLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
GPDI	0000				01011550	
GREAD	0000				06011556	
GREADR	0000				03011556	
GSBLC	0000				02011556	
GSBPOS	0000				02011556	
GSERV	0000				02011556	
GSRT	0000				03011557	
GSXY	0000				01011557	
GTDD	0000				01011557	
GTND	0000				01011551	
GTRACE	0000				01010317	
GTRU	0000				03011557	
GTXT	0000				02011557	
GUSTOR	0000				03011557	
GWRITE	0000				05011557	
HMDSADMP	0000				01011950	
HMDSADM2	0000				01012164	
IDENTIFY	0000				02010856	
IECTATNR	0000				01012058	
IECTDEBX	0000				01011650	
IECTDECB	0000				01011650	
IECTIOBX	0000				01011650	
IECTRDTI	0000				01012051	
IECTUCB	0000				01012051	
IECTUCBX	0000				01012050	
IEZBITS	0000				01011758	
IFGACB	0000				22800291	
IFGEXLST	0000				01012564	
IFGRPL	0000				22800293	
IHBERMAC	0000				02011898	
IHBGAM1	0000				02011557	
IHBGAM2	0000				02011557	
IHBGAM3	0000				02011557	
IHBINNRA	0000				02010852	
IHBINNRB	0000				02010852	
IHBOPLST	0000				02010852	
IHBRDWRD	0000				01011961	
IHBRDWRK	0000				01010607	
IHBRDWRS	0000				01010608	
IHBRDWRT	0000				22730669	
IHB01	0000				23331067	
IHB02	0000				02011558	
IHLMGTRC	0000				01011787	
IKJPSCB	0000				23051576	
IMDMEDIT	0000				01011788	
INDEX	0000				03013138	
IOHALT	0000				23421285	
LERB	0000				01011650	

DSNAME=SYS1.AMACLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
LERPRT	0000				01011659	
LINK	0000				02010852	
LOAD	0000				02010852	
LOCATE	0000				02013130	
LOPEN	0000				01011659	
MODESET	0000				23050343	
NOTE	0000				01010608	
OACB	0000				02011558	
OBTAIN	0000				01011582	
ONLTST	0000				01012050	
OPEN	0000				01011565	
PARAMNUM	0000				21761871	
PARMLIST	0000				21761871	
PGRLSE	0000				22290603	
POINT	0000				22981121	
POST	0000				02010856	
PROTECT	0000				01012858	
PRTOV	0000				01010609	
PUT	0000				22990010	
PUTX	0000				01010615	
RDJFCB	0000				01011565	
RDLNE	0000				01052864	
READ	0000				01010615	
RELBUF	0000				01011659	
RELEX	0000				01011560	
RELSE	0000				01010615	
RENAME	0000				01011582	
REQBUF	0000				01011650	
RESCN	0000				01052865	
RESERVE	0000				02010856	
RESETPL	0000				22970163	
RETURN	0000				02010859	
RLSEBFR	0000				01011657	
RPL	0000				22800302	
SAEC	0000				02011558	
SAVE	0000				02010859	
SCANREQ	0000				01012058	
SCRATCH	0000				01011582	
SEGLD	0000				01013190	
SEGWT	0000				01013199	
SETL	0000				01010613	
SETPRT	0000				01011105	
SMFWTM	0000				02011602	
SNAP	0000				22340282	
SPAR	0000				01011559	
SPIE	0000				02011542	
STAE	0000				02010903	
STEND	0000				02012097	

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DSNAME=SYS1.AMACLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
STIMER	0000				02010850	
STOW	0000				01010607	
SYNADAF	0000				01010607	
SYNADRLS	0000				01010607	
TESTAUTH	0000				01010857	
TGROUP	0000				02012097	
TIME	0000				02010850	
TPEDIT	0000				01012050	
TPUT	0000				01011110	
TRANSLAT	0000				21761871	
TRLIST	0000				02012097	
TRNSLATE	0000				01012050	
TRSLRCTW	0000				01011659	
TRSLRCT3	0000				01011659	
TRSLSCTW	0000				01012050	
TRSLSCT3	0000				01012050	
TRUNC	0000				01010607	
TTIMER	0000				02010850	
TWAIT	0000				01011659	
WAIT	0000				02012014	
WAITR	0000				02012014	
WRITE	0000				01010608	
WTL	0000				02010850	
WTO	0000				02011155	
WTOR	0000				02011155	
XCTL	0000				02010854	
XDAP	0000				01012373	
XLATE	0000				01011568	

NO. MODULES 220
NO. ALIAS 000

DSNAME=SYS1.AMODGEN

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
CVT	0000				23042457	
HOOK	0000				01013483	
IEAAIH	0000				23360229	
IEAAMS	0000				23470259	
IEAANIP	0000				23500370	
IEAAPS	0000				23120211	
IEAAPT	0000				23010248	
IEAATA	0000				23470261	
IEAATC	0000				23200022	
IEAAWT	0000				22840590	
IEABBX	0000				02053549	
IEACVTPC	0000				02010126	
IEAPGDR	0000				23420130	
IEAPGEX	0000				23210299	
IEAPGPP	0000				22670110	
IEAPGRC	0000				02050980	
IEAPGS3Q	0000				22620008	
IEAPMP	0000				01011785	
IEAQAT	0000				22290604	
IEAQCH	0000				22670113	
IEASMFEX	0000				22980486	
IEASPLM	0000				23330148	
IEASPLMS	0000				22900043	
IEASPL2P	0000				02010127	
IEATCB	0000				22290605	
IEATRC	0000				23420234	
IECDSECT	0000				01011617	
IECGBL	0000				22340306	
IECICS	0000				22340304	
IECILCT	0000				22340305	
IECINT	0000				23480307	
IECIOQE	0000				22900084	
IECIOS	0000				23120209	
IECIOSB	0000				23470351	
IECIST	0000				22910467	
IECIUCB	0000				22690614	
IECIUCBA	0000				22690617	
IECLNK1	0000				22340300	
IECPMP	0000				01011785	
IECSDSL1	0000				22780985	
IECSSDA	0000				22690615	
IECTBL	0000				22900093	
IECULK1	0000				22900098	
IECULK2	0000				22900103	
IECULK3	0000				22900111	
IECXCP	0000				23480306	
IECXTCH	0000				22900114	
IEC23XXF	0000				23460940	

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DSNAME=SYS1.AMODGEN

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEEARM	0000				22180259	
IEEBASEA	0000				02031389	
IEEBASEB	0000				02030859	
IEECDCM	0000				23360305	
IEECHAIN	0000				01031786	
IEECRDCM	0000				01052008	
IEECSUB	0000				22860450	
IEECUCM	0000				23441044	
IEECVMUG	0000				22740172	
IEEDEFIN	0000				02010135	
IEEEIL	0000				01010857	
IEEPMP	0000				01013485	
IEEQCMND	0000				02010136	
IEEQIDP	0000				01051684	
IEEQIDT	0000				22550055	
IEESETLT	0000				22190129	
IEESMCA	0000				01031757	
IEETODCL	0000				01010859	
IEETRCB	0000				02011124	
IEEXSA	0000				02010859	
IEFAJCTB	0000				02050853	
IEFASCTB	0000				02051802	
IEFBUTBL	0000				02010134	
IEFJESCT	0000				02051912	
IEFJFCBN	0000				01032019	
IEFJFCBX	0000				01032985	
IEFPMP	0000				01011786	
IEFQMRES	0000				02010858	
IEFSD032	0000				02050981	
IEFSD033	0000				02051912	
IEFSGNOP	0000				02050135	
IEFSUTBL	0000				02010131	
IEFTCT	0000				01031758	
IEFTIOTI	0000				01031758	
IEFUCBOB	0000				01032299	
IEFVTIOT	0000				02010852	
IEFWAPRM	0000				02010851	
IEFZB412	0000				22690161	
IEWPMP	0000				01013488	
IEZATTCH	0000				01011758	
IEZCIB	0000				01032201	
IEZDEB	0000				01031758	
IEZIOB	0000				01031758	
IEZJSCB	0000				01031758	
IEZXRB	0000				01031786	
IFASMFR	0000				02012140	
IFSBPL	0000				23080046	
IFSRESCT	0000				01051684	

DSNAME=SYS1.AMODGEN

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGFRVT	0000				23230224	
IHAAPCB	0000				02050858	
IHACCWST	0000				02053554	
IHAECB	0000				01031759	
IHAFLC	0000				01032086	
IHAJPRMS	0000				22240435	
IHAPCB	0000				02052017	
IHAPDDT	0000				02051891	
IHAPDS	0000				01031792	
IHAPGIOB	0000				02053554	
IHAPGSDA	0000				23420123	
IHAPGSPM	0000				02051937	
IHAPSIA	0000				23420129	
IHAPSW	0000				02050891	
IHAPTE	0000				02050858	
IHARB	0000				01031788	
IHARST	0000				02050856	
IHASMFB	0000				02050892	
IHAWQE	0000				22451643	
IHBABCTL	0000				02013541	
IHBDDCE	0000				22290088	
IHBPCVT	0000				23500241	
IHBPSINR	0000				01011306	
IHBRELNO	0000				C9C8 2 3	
IHBTSCE	0000				02030850	
IHBXLE	0000				02050130	
IHBXLENT	0000				02050130	
IHBXLIN	0000				02050130	
IHBXLOUT	0000				02050131	
IHBXLTAB	0000				02050131	
IHLPMP	0000				01013488	
IKJTCB	0000				01032242	
IORMSCOM	0000				23230223	
IOSGNIP	0000				22340298	
IQADSV	0000				01052010	
IQAPFX	0000				01052023	
MGCR	0000				02010131	
MODID	0000				23020567	
PGFIX	0000				02010850	
PGFREE	0000				02010850	
PGLOAD	0000				02010858	
QEDIT	0000				02011363	
SCBDUMP	0000				02011931	
SDUMP	0000				02011225	
SGDEBCHK	0000				23121076	
SGHEW011	0000				01011563	
SGHEW060	0000				01011567	
SGIECODT	0000				01051801	

LEVEL 02.0

DSNAME=SYS1.AMODGEN

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
SGIEC0UC	0000				23331068	
SGIEE0VR	0000				02051652	
SGIEE0VV	0000				23210148	
SGIEF0QM	0000				02010133	
SGIEF002	0000				02050136	
SGIEF010	0000				02050136	
SGIEF011	0000				02050134	
SGIEF012	0000				02050134	
SGIEF013	0000				02050134	
SGIEF043	0000				22790378	
SGIEF060	0000				02030134	
SGIFB000	0000				01030330	
SGIFF0BT	0000				01031559	
SGIHB000	0000				22970165	
SYNCH	0000				02010853	

NO. MODULES 159
NO. ALIAS 000

DSNAME=SYS1.AOSA0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IDA019C1	0008		A		01012216	IDA0192A
IDA019L1	0008		A		01012216	IDA0192A
IDA019RN	0008		A		01012214	IDA019R6
IDA019R6	0008				01012214	
IDA019R7	0008		A		01012214	IDA019R6
IDA019R9	0008		A		01012214	IDA019R6
IDA0192A	0008				01012216	
IDA0192G	0010				01012723	
IDA0192I	0010		A		01012729	IDA0200S
IDA0192P	0010		A		01012723	IDA0192G
IDA0192V	0010		A		01012723	IDA0192G
IDA0200S	0010				01012729	
IDA0200T	0010		A		01012723	IDA0192G
IDA0231T	0010		A		01012723	IDA0192G
IDA0557A	0010		A		01012723	IDA0192G
IGG0CLAB	0198				01012516	
IGG0CLAC	0370				01012516	
IGG0CLAH	0860				01012516	
IGG0CLA1	00F0				00013375	
IGG0CLC9	03E8				00013395	

NO. MODULES 009
NO. ALIAS 011

LEVEL 02.0

DSNAME=SYS1.AOSBB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFSGEN	02E8				01052555	
IFSLETR	06D8				01051683	
IFSRMT	5420				01052878	
IFSSYS3	0808				01051683	
IGG0196T	0400				01052559	
IGG0201L	0400				01052550	
IKJRBBCM	0220				01013020	
IKJRBBCR	0880				01013046	
IKJRBBMC	03D0				01013046	
IKJRBBMG	0288				02013126	
IKJRBBMI	04E0				01013047	
IKJRBBMP	08B8				01013072	

NO. MODULES 012
NO. ALIAS 000

DSNAME=SYS1.AOSBO

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEFBMGET	0330				02011936	
IEFBMINT	0168				02011935	
IEFBMPUR	01F0				03012341	
IEFBMPUT	00B0				02011935	
IEFMSGJP	12C0				03013121	
IEFORMAT	04C0				02051456	
IEFOSC01	0AC0		A		03013077	IEFSD082
IEFOSC02	0AA0		A		03013078	IEFSD089
IEFOSC03	1038		A		03013148	IEFSD083
IEFOSC04	0080		A		03012920	IEFSD084
IEFOSC05	0860		A		03012911	IEFSD079
IEFOSC06	0718				03013077	
IEFOSC07	0578				03013475	
IEFOSC08	02A0		A		03032920	IEFSDXXX
IEFQMAPG	0048				01051413	
IEFQMJ01	0C60				03013271	
IEFQMJ02	0BB8				03013272	
IEFQMJ03	1270				03013272	
IEFQMMAC	01C8				02011411	
IEFQMMSG	00E8				03012422	
IEFQRESD	00D0				02051412	
IEFSDXXX	02A0				03032920	
IEFSD055	08C8				02051950	
IEFSD079	0860				03012911	
IEFSD080	0900				03013320	
IEFSD082	0AC0				03013077	
IEFSD083	1038				03013148	
IEFSD084	0080				03012920	
IEFSD089	0AA0				03013078	
IEFSD095	0448				02011436	
IEFSD311	0098				02050156	
IEFSMCLD	0728				03013271	
IEFSMEND	0450				03013362	
IEFSMFSO	00D8				02011934	
IEFSMGET	07E8				03013270	
IEFSMIFC	0108				03013270	
IEFSMINT	0100				02011936	
IEFSMODS	0BC8				03013421	
IEFSMPUT	0898				03013271	
IEFSMREP	0480				03012556	
IEFVMA	0A18				03013425	
IEFVMB	0C88				03013470	
IEFVMC	0B88				03013422	
IEFVMD	0900		A		03013320	IEFSD080
IEFVME	0538				02012763	
IEFWAALC	0150				02011924	
IEFWAA01	0B28				02011924	
IEFWAA02	0C98				03013254	

LEVEL 02.0

DSNAME=SYS1.AOSB0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEFWAA03	0C00				03013135	
IEFWAA04	0318				02011414	
IEFWAMAP	08E8				01051911	
IEFWAMGR	0300				02011924	
IEFWAMIN	2950				03012940	
IEFWAMSG	05A0				02011456	
IEFWARIN	0310				02011936	

NO. MODULES 048
NO. ALIAS 007

DSNAME=SYS1.AOSB3

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEE6B860	0068				01011410	
IEECIR50	0038				02011410	
IEECIR51	02C8				02051412	
IEEDFINA	0360				02011604	
IEEDFIN1	0370				03012234	
IEEDFIN2	0618				03013424	
IEEDFIN3	0550				03013425	
IEEDFIN4	0678				03013425	
IEEDFIN5	0630				03013425	
IEEDFIN6	0770				02031438	
IEEDFIN7	0518				01011951	
IEEDFIN8	06B0				02012748	
IEELGON	07B0				01053342	
IEELGON1	0808				01053342	
IEELGON2	08F0				01053342	
IEELIST	06C0				01053342	
IEELIST1	0900				01053343	
IEELOGWR	0250				03012271	
IEEMB800	06A8				02012685	
IEEMFTIO	00A8				02011415	
IEEPSN	0220				03012354	
IEEQID	1308				01053160	
IEERTE	0B30				01053359	
IEERTE1	0648				01052216	
IEERTE2	0458				01053359	
IEERTE3	03E0				01052970	
IEESD561	06C0				02011796	
IEESD562	03F8				02011796	
IEESD563	0570				03012244	
IEESD564	0778				03012682	
IEESD565	0278				02031928	
IEESD566	06A0				02013043	
IEESD568	00C8				02031436	
IEESD571	01A8				02011802	
IEESD575	0598				03013422	
IEESD576	0570				03013060	
IEESD582	0250				02012904	
IEEVJCL	0168				02011455	
IEEVLIN	0310				03012271	
IEEVLNKT	00A8				02011435	
IEEVMNT1	0550				03012442	
IEEVMNT2	0240				02011653	
IEEVRCTL	06C8				03013425	
IEEVRJCL	0078				02011892	
IEEVSEND	0838				01052860	
IEEVSMSG	0428				02011893	
IEEVSND1	0838				01052218	
IEEVSND2	0690				01052067	

LEVEL 02.0

DSNAME=SYS1.AOSB3

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEEVSND3	0750				01052068	
IEEVSND4	0500				01053342	
IEEVSND5	02C0				01052068	
IEEVSND6	0298				01052068	
IEEVSND8	05D0				01052068	
IEEVSND9	05B0				01052068	
IEEVSTAR	1018				03012977	
IEEXEDNA	05D8				03012834	
IEE00110	00E8				01011417	
IEE0303D	0310				02011916	
IEE0303F	0360				03012270	
IEE0403D	0590				03013422	
IEE0403F	07A0				03012271	
IEE0503D	0660				02011417	
IEE0603D	05F0				03012442	
IEE0903D	01E0				02012798	
IEE1103D	0490				03013422	
IEE1403D	03E8				03013254	
IEE1603D	0398				03013199	
IEE1903D	0530				03012798	
IEE2303D	0310				02011413	
IEE2903D	07C8				03052741	
IEE3303D	0228				03012835	
IEE3503D	03C8				03013125	
IEE3703D	0460				03012935	
IEE3803D	0398				02033182	
IEE4303D	01D8				02011414	
IEE4403D	0780				03013257	
IEE4503D	0698				02011898	
IEE4603D	0278				02011414	
IEE4703D	03E8				02011934	
IEE4903D	06E8				03012835	
IEE5603D	0418				01011417	
IEE5903D	03D8				01011418	
IEE60110	0488				02013504	
IEE6303D	0420				01011418	
IEE6403D	03C8				01011804	
IEE6503D	0798				03013474	
IEE6603D	02E8				03013486	
IEE6703D	0408				01011910	
IEE6803D	0420				01011411	
IEE6903D	0398				01011412	
IEE7103D	01F8				01011412	
IEE7203D	0648				02012835	
IEE7303D	0310				02012834	
IEE7503D	0418				01011413	
IEE7603D	0408				02013126	
IEE7703D	03C8				02013116	

DSNAME=SYS1.AOSB3

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEE7803D	02B8				02013116	
IEE7903D	0330				01011419	
IEE8503D	00D8				01011419	
IEE8703D	07A0				01053343	
IEE8803D	0730				01053342	
IEE8903D	0650				01053342	
IEE9703D	0248				02011417	
IEE9803D	07E8				03012442	
IEE9903D	0668				03012985	
IEFAB400	08F0				02013420	
IEFAB401	07D8				02012684	
IEFAB402	0068				02012690	
IEFAB403	0080				01011418	
IEFAB404	0070				01011418	
IEFAB405	0300				01011806	
IEFAB406	06E0				01013461	
IEFAB407	0398				01011808	
IEFAB408	01C0				01011915	
IEFAB410	0008				01011806	
IEFAB411	0008				01011806	
IEFAB416	0218				01013002	
IEFAB417	0480				01011819	
IEFAB418	0468				01011916	
IEFAB420	0300				01011805	
IEFATECB	0010				02050151	
IEFAVFAK	0020				02051418	
IEFBR14	0008				02010151	
IEFCVFAK	0050				02050172	
IEFDSDRP	0E98				03012771	
IEFDSLST	01C0				02011416	
IEFDSOAL	0628				02052019	
IEFDSOCP	10C0				03013320	
IEFDSOFB	0090				02011913	
IEFDSOSM	0C78				02011931	
IEFDSOWR	0EF0				02011931	
IEFDSTBL	0308				02011416	
IEFDSTRT	0200				02010156	
IEFIDMPM	0220				02011416	
IEFIDUMP	0488				02011920	
IEFIIC	02D8				02011915	
IEFINTQA	0348				02031934	
IEFK1MSG	01B8				02051419	
IEFMCVOL	0660				02051923	
IEFMF102	0430				03013146	
IEFMF105	0228				02011915	
IEFMF106	02E0				02011915	
IEFMF263	0BE8				03013425	
IEFNB901	0540				01012301	

LEVEL 02.0

DSNAME=SYS1.AOSB3

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEFNB902	0008				01011803	
IEFPARMG	0500				02051413	
IEFPARMS	1670				02051935	
IEFPRES	0980				02051894	
IEFPRTXX	0898				02011417	
IEFQDELE	0168		A		02011934	IEFQMIFC
IEFQMIFC	0168				02011934	
IEFQMNQ2	0168		A		02011934	IEFQMIFC
IEFQMRAW	0168		A		02011934	IEFQMIFC
IEFQMSSS	0168		A		02011934	IEFQMIFC
IEFQMUNC	0168		A		02011934	IEFQMIFC
IEFRPREP	03D0				03013270	
IEFRSTRT	0008				02010140	
IEFSCAN	00E8				02010171	
IEFSDPPT	0028				02010158	
IEFSD096	0158				02051415	
IEFSD097	0368				03052948	
IEFSD101	00B0				03013223	
IEFSD160	0EF8				03013147	
IEFSD161	1150				03013147	
IEFSD162	0E40				03013463	
IEFSD164	0370				03013487	
IEFSD165	0188				02011892	
IEFSD166	0448				03012706	
IEFSD168	0538				02011914	
IEFSD180	03D0				02051823	
IEFSD195	02F0				03052691	
IEFSD21Q	0458				03052982	
IEFSD22Q	01A8				02011920	
IEFSD300	08B8				02011934	
IEFSD301	0A48				03012376	
IEFSD302	0740				02011934	
IEFSD303	0260				03012376	
IEFSD304	0920				03012773	
IEFSD305	1368				03013222	
IEFSD309	0690				03013121	
IEFSD31Q	0D80				03013148	
IEFSD310	01B8				02011723	
IEFSD312	0218				02011412	
IEFSD41Q	03F0				03052779	
IEFSD42Q	0168				02011938	
IEFSD510	08A8				03013425	
IEFSD514	0168		A		02011934	IEFQMIFC
IEFSD515	0AB0				03012423	
IEFSD518	0C70				03012275	
IEFSD519	0310				03012498	
IEFSD536	0348				03033255	
IEFSD551	0018				02030142	

DSNAME=SYS1.AOSB3

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEFSD552	0018				02030142	
IEFSD567	0078				02053362	
IEFSD598	03B8				03013363	
IEFSETMG	00B8				01011458	
IEFSETRD	06E8				02012199	
IEFSMR	0008		A		02010140	IEFRSTRT
IEFSTDSC	05B0				02011929	
IEFVDA	2140				03053421	
IEFVDBSD	01A8				02051801	
IEFVEA	1440				03052312	
IEFVFA	1778				03012767	
IEFVFB	0710				02031804	
IEFVGI	0180				02051801	
IEFVGK	0200				02051801	
IEFVGM	02B8				02051801	
IEFVGM1	0110				02010184	
IEFVGM10	0170				02010184	
IEFVGM11	0170				02010184	
IEFVGM12	0168				02010184	
IEFVGM13	0150				02010184	
IEFVGM14	00C8				02010184	
IEFVGM15	00A8				02010184	
IEFVGM16	00B0				02010174	
IEFVGM17	0080				02011803	
IEFVGM18	00A0				02010175	
IEFVGM19	00B0				02011804	
IEFVGM2	0148				02010175	
IEFVGM3	01C8				02011413	
IEFVGM4	0128				02010175	
IEFVGM5	0118				02010175	
IEFVGM6	0140				02010183	
IEFVGM67	0138				02011804	
IEFVGM7	0148				02010183	
IEFVGM70	0118				02011414	
IEFVGM71	00F0				02010183	
IEFVGM72	0158				02011802	
IEFVGM76	00F8				02011802	
IEFVGM78	0120				02011810	
IEFVGM8	00A0				02010180	
IEFVGM9	00E0				02010180	
IEFVGS	03E8				03052747	
IEFVGT	0320				02051802	
IEFVHA	0338				03033255	
IEFVHC	0198				02051816	
IEFVHCB	0538				02051803	
IEFVHE	00D0				02051816	
IEFVHEB	02D8				03052353	
IEFVHEC	0180				02051804	

LEVEL 02.0

DSNAME=SYS1.AOSB3

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEFVHF	0158				03032902	
IEFVHH	0398				02051815	
IEFVHL	0100				02051803	
IEFVHM	03E8				02051811	
IEFVHN	0298				03033436	
IEFVHQ	00E0				02051925	
IEFVH1	07C0				03032792	
IEFVINA	0270				02031816	
IEFVINB	0070				02031410	
IEFVINC	00D8				02031411	
IEFVINE	01E8				02031411	
IEFVJA	0600				02051804	
IEFVJIMP	02B8				02011921	
IEFVJMSG	0038				02010198	
IEFVKIMP	02E8				03052744	
IEFVKMSG	0098				02052744	
IEFVMF	04D8				02012763	
IEFVMFAK	0020				02050146	
IEFVMLK5	0018				02050146	
IEFVMLS1	1E10				03053461	
IEFVMLS6	02C0				02052013	
IEFVMLS7	0790				02051802	
IEFVMMS1	0018				02050147	
IEFVM2LS	00D0				02051814	
IEFVM3LS	0338				02051816	
IEFVM4LS	0488				03052935	
IEFVM5LS	0248				03053368	
IEFVM76	00F0				02051817	
IEFVRRC	11D8				03013120	
IEFVRR1	04A0				03012431	
IEFVRR2	0960				02011929	
IEFVRR3	08C0				03012763	
IEFVSCDQ	01B0				02031925	
IEFVSDRA	01F0				02011912	
IEFVSDRD	0518				03012381	
IEFVSD13	0310				02051811	
IEFVSPL	0228				03032341	
IEFWA000	1B58				03052744	
IEFWCFAK	0018				02050143	
IEFWCIMP	1758				03053486	
IEFWDFAK	0018				02050143	
IEFWD000	1830				03053083	
IEFWD001	00B0				02050156	
IEFWEXTA	04B0				02011801	
IEFWSTRT	0088				02051728	
IEFWSWIN	0068				02051414	
IEFWTERM	0078				02011416	
IEFWTP00	0468				03012742	

DSNAME=SYS1.AOSB3

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEFXAFAK	0018				02050156	
IEFXAMSG	0088				02050156	
IEFXCSSS	0FD8				03052908	
IEFXDPTH	0138				03052686	
IEFXH000	0710				02052744	
IEFXJFAK	0018				02050151	
IEFXJIMP	0A68				03052743	
IEFXJMSG	0240				03052743	
IEFXKFAK	0020				02050152	
IEFXKIMP	0458				03052743	
IEFXKMSG	0918				03053256	
IEFXTDMY	0028				02051414	
IEFXTMSG	01C8				02051415	
IEFXT00D	1008				03053255	
IEFXT002	0CB8				03053256	
IEFXT003	0820				03052743	
IEFXVMSG	0158				02051894	
IEFXVNSL	0008				02050153	
IEFXV001	0C48				03052686	
IEFXV002	0A50				03012686	
IEFXV003	08C8				02012690	
IEFX300A	0A78				02052744	
IEFX5FAK	0020				02050153	
IEFX5000	0DE8				03052691	
IEFYNIMP	0480				02012016	
IEFYNMSG	0050				02011410	
IEFYPJB3	0478				03013487	
IEFYPMSG	0088				02011808	
IEFYSVMS	0170				02051816	
IEFYTVMS	0420				03012906	
IEFZAJB3	0130				02011818	
IEFZGJB1	0C10				03013278	
IEFZGMSG	0170				02011412	
IEFZGST1	0C38				03012498	
IEFZGST2	05A0				03013278	
IEFZHMSG	0CD8				03013278	
IEF065FK	0028				02010159	
IEF160DM	0028				02010154	
IEF160FK	0028				02010154	
IEF161DM	0028				02010154	
IEF161FK	0028				02010154	
IEF263FK	0028				02010154	
IEF300SD	0020				02010157	
IEF304SD	0020				02010157	
IEF41FAK	0018				02050153	
IHK1503D	0240				04012800	

NO. MODULES 327
NO. ALIAS 007

LEVEL 02.0

DSNAME=SYS1.AOSCA

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IECTATTN	0018				01051727	
IGC0009A	0400				01033507	
IGC0109A	0400				01011798	
IGE0000A	03F8				00013352	
IGE0000B	0190				03013079	
IGE0000D	0328				01011580	
IGE0000E	0250				00013352	
IGE0000F	03F8				01012164	
IGE0000G	03A0				00013434	
IGE0000H	02E8				01011580	
IGE0000I	0400				01052847	
IGE0001A	0390				00013434	
IGE0001C	0270				00013431	
IGE00020	0130				01012168	
IGE0100F	0388				01011583	
IGE0100I	0400				01051721	
IGE0101C	0110				01011583	
IGE0200I	0400				01051722	
IGE0300I	0400				01051724	
IGE0400I	0400				01051724	
IGE0800I	0400				01051723	
IGE0900I	0400				01051726	

NO. MODULES 022
NO. ALIAS 000

DSNAME=SYS1.AOSCD

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFBDCB01	0150				01051791	
IFBDCB02	0168				01051791	
IFBSTAT	03E0				01011791	
IFBSTAT0	02F8				01011791	
IFBSTAT1	0228				01011791	
IFBSTAT2	01B8				03012583	
IFCDIP00	03E8				01011791	
IFCEA155	1628				01012102	
IFCEA165	1EB0				01011969	
IFCEB155	03B8				02013068	
IFCEB165	1C18				01011969	
IFCECUA0	0328				03013347	
IFCEC155	03B0				02013069	
IFCEC165	1030				01012141	
IFCED155	1E70				01012141	
IFCED165	1E78				01012141	
IFCEE155	0B68				01011793	
IFCEE165	0FA0				01012141	
IFCEF155	0B70				01011793	
IFCEF165	19F0				01012201	
IFCEG155	1598				02012711	
IFCEIPL0	0840				01011793	
IFCEI135	19B8				03012723	
IFCEI145	24E0				01011794	
IFCEI155	1260				01011794	
IFCEJ145	07B0				01011794	
IFCEL155	10C0				02012765	
IFCEMER0	02E8				01011794	
IFCEMER1	0860				03013192	
IFCEMER2	08B0				03013267	
IFCEMER3	0570				03013267	
IFCEMER4	0680				01011795	
IFCEMER5	0630				01011795	
IFCEM155	1E38				02013060	
IFCEP005	0BA0				01012153	
IFCEP007	0C18				03013364	
IFCEP008	06F8				01011795	
IFCEP009	0400				01011796	
IFCEREP0	1178				03013364	
IFCETRN0	0DD0				01012142	
IFCETRN1	0548				01012157	
IFCETRN2	0198				01012142	
IFCETRN3	05D0				01012142	
IFCETRN4	0CB0				01012153	
IFCET00B	0308				01011796	
IFCET002	0B10				03013349	
IFCET003	0398				03013349	
IFCET004	0658				03013352	

LEVEL 02.0

DSNAME=SYS1.AOSCD

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFCET005	0328				01012143	
IFCET006	0400				01013060	
IFCET008	17A0				03013489	
IFCEUKN0	0638				01011799	
IFCEVOL0	0340				03013268	
IFCEXXXA	10D0				01012071	
IFCEXXXB	1B10				03013268	
IFCEXXXC	0E20				01012084	
IFCEXXXD	1288				01011799	
IFCEXXXX	0BC8				01012153	
IFCEXXX0	0C28				01011799	
IFCEXXX1	0B08				01011799	
IFCEXXX2	0BE0				01012084	
IFCEXXX3	0E80				01011921	
IFCEXXX4	0E20				01011790	
IFCEXXX5	0C20				01011790	
IFCEXXX6	0CD0				01012290	
IFCEXXX7	0DB0				01012084	
IFCEXXX8	0DB0				01011790	
IFCEXXX9	1038				01011790	
IFCE0135	1860				03012585	
IFCE0145	2500				01012220	
IFCE0155	0920				01012072	
IFCE0165	0FD8				01012202	
IFCE2860	15B0				01011961	
IFCE2870	1658				01011961	
IFCE2880	3360				01011961	
IFCMES00	0A78				03013347	
IFCMSG00	03D0				01011791	
IFCRDESM	2790				01012084	
IFCRDE03	02C8				01012077	
IFCRE002	0AD8				03013061	
IFCRE003	0788				01011792	
IFCSCUA0	0600				03013268	
IFCSIPL0	06A0				01011792	
IFCSI145	13D0				01011792	
IFCSI155	05A8				01011792	
IFCST00B	0368				01011792	
IFCST003	0788				01011792	
IFCST005	0678				01012143	
IFCST006	05F8				01012143	
IFCST008	1738				01011792	
IFCSUKN0	03D8				01011793	
IFCSVOL0	0408				03013269	
IFCSXXXA	1150				01012073	
IFCSXXXB	1C00				03013269	
IFCSXXXC	1000				03012585	
IFCSXXXD	2350				03013347	

DSNAME=SYS1.AOSCD

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFCSXXXX	0B20				01012154	
IFCSXXX0	0910				01011793	
IFCSXXX1	0A10				01011793	
IFCSXXX2	0A70				01012085	
IFCSXXX3	0D28				01011794	
IFCSXXX4	11D8				01011794	
IFCSXXX5	0CD0				01011794	
IFCSXXX6	0CC8				01011794	
IFCSXXX7	0C38				01012085	
IFCSXXX8	0CC0				01011794	
IFCSXXX9	1360				01011794	
IFCS0135	01C8				01011794	
IFCS0145	1080				01011794	
IFCS0155	0318				01012085	
IFCS0165	0DE0				01011962	
IFCS2860	0A58				01011962	
IFCS2870	0A68				01011963	
IFCS2880	0AB0				01011963	
IGC0007F	03E0		A		01011791	IFBSTAT
IGC0107F	0228		A		01011791	IFBSTAT1
IGC0207F	01B8		A		03012583	IFBSTAT2
IGC0307F	02F8		A		01011791	IFBSTAT0
IGE0025F	03E0				03012584	
IGE0125F	03B0				03013142	
IGE0625F	01B0				03012804	

NO. MODULES 117
NO. ALIAS 004

LEVEL 02.0

DSNAME=SYS1.AOSCE

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGC0008E	0478				01033236	
IGC0008H	0178				02013417	
IGC0108E	02F0				01031924	
IGC0208E	0320				01033040	
IGC0308E	0298				01033040	
IGC0408E	04C0				01012738	
IGC0508E	03E0				01031678	
IGC0608E	03A0				01033332	
IGC0708E	0248				01033236	
IGC0808E	01C8				01031678	
IGE0660A	01E0				01031674	
IGFDDRMF	0468				01031674	
IGFDDR00	0618				01032357	
IGFDDR10	0680				01032357	
IGFMCH00	0378				01032003	
IGFMSB00	0070				01032778	
IGFTMCHK	0270				01012003	
IGFTVT00	0020				01012003	
IGFVCCHC	0838				01032380	
IGFVCCIN	03E0				01032028	
IGFVCC35	0070				01031514	
IGFVCC45	00A8				01031515	
IGFVCC55	0048				01031515	
IGFVCC60	0448				01033040	
IGFVCC70	0428				01033040	
IGFVCC80	02B8				01032380	
IGFVDDR2	0200				96841674	
IGFVDDR3	0138				01031674	
IGFVMCB1	0018				01012010	
IGFVMCD0	0400				01032165	
IGFVMCD1	03A0				01013068	
IGFVMCD4	04C0				01032307	
IGFVMCE0	05F0				01033160	
IGFVMCE1	0588				01032165	
IGFVMCE2	03C8				01032005	
IGFVMCE3	02E0				01032005	
IGFVMCE4	03F0				01032165	
IGFVMCE5	0200				96842005	
IGFVMCF0	0330				01033160	
IGFVMCF1	0118				01032005	
IGFVMCF2	03F0				01032717	
IGFVMCF3	0098				01032019	
IGFVMCF4	01D8				01032003	
IGFVMCF6	0310				03012427	
IGF2403D	0400				01033406	
IGF2503D	0428				01031924	

NO. MODULES 046
NO. ALIAS 000

DSNAME=SYS1.AOSC2

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEWFTMIN	04F0				00053469	
IEWFTPCI	0C98				00053476	
IEWSVOVR	0078				01051558	
IEWSXOVR	01E8				01051558	
IEWSYOVR	01A8				01051559	

NO. MODULES 005
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOSC5

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
HHLMCIH	0208		A		02012455	
HHLMCIHF	0208				02012455	
IEAAADOA	0578				02011476	
IEAAADOB	0270				03012275	
IEAAADOC	0428				02011537	
IEAAADOD	0378				02011477	
IEAAADOE	0460				03012185	
IEAAADOF	01C8				03012918	
IEAAADOK	0630				02011412	
IEAAADOL	03C0				02012184	
IEAAADOO	03C8				03013504	
IEAAAD01	0450				03012183	
IEAAAD02	0430				02011418	
IEAAAD03	0368				03013504	
IEAAAD04	0288				02011476	
IEAAAD05	04D8				03013504	
IEAAEF00	00B0				02050182	
IEAAID00	0208				02051914	
IEAAPX00	01F8				02011670	
IEAAST00	0150				02011724	
IEAASY00	0060				03052934	
IEABXR00	01C0				02011514	
IEACTM0B	0410				03052741	
IEADTM22	03D0				02051594	
IEADTM23	0530				03053504	
IEAGAB00	0CA0				03013184	
IEAGED02	0188				02011915	
IEAGENQ1	0B68				03052746	
IEAGENQ2	0EA8				03052746	
IEAGPL00	00B8		A		03013052	
IEAJDL00	0128				02011914	
IEAMSERB	0240				02050142	
IEANAM00	0C88				03053182	
IEANIPDR	0EE8				02013055	
IEANPRMS	0330				02012522	
IEANTM0A	01C0				03053505	
IEANTM0C	0238				03052199	
IEANTM0D	0298				03052771	
IEANTM0E	06E0				03053045	
IEANTM0H	0500				02012934	
IEANTM0J	0440				02013504	
IEANTM0M	0250				02012910	
IEANTM00	04C8				03053477	
IEANTM01	04B8				03053425	
IEANTM02	0500				03052935	
IEANTM03	01A8				02051938	
IEANTM04	02F0				02051593	
IEANTM05	0460				03053129	

DSNAME=SYS1.AOSC5

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEANTM06	0480				03052340	
IEANTM07	0528				03053504	
IEANTM08	02E0				02051658	
IEANTM09	04C8				03053129	
IEAPATCH	0800				02013270	
IEAPGSAE	00A0				03053421	
IEAPGSBP	0330				03053421	
IEAPGSCE	00E8				03053421	
IEAPGSDD	06E0				03053421	
IEAPGSDY	05B0				03053421	
IEAPGSFF	0220				03013422	
IEAPGSFP	0DA8				03052520	
IEAPGSIP	0680				03053424	
IEAPGSPA	0120				03053422	
IEAPGSPM	00F0				03053425	
IEAPGSQA	0048				03053423	
IEAPGSRL	00A0				03053423	
IEAPGSVR	0168				03053423	
IEAPGSWR	01F8				03013425	
IEAPGS00	0068				03053424	
IEAPTRV	0048				03013424	
IEAQCB01	0050				02050148	
IEASPL2	06A8				02011573	
IEASTM11	0440				03012376	
IEASTM12	0358				02011439	
IEASTM13	02C8				02011665	
IEASTM14	02D0				02011439	
IEATSAR	0920				03053425	
IEAVMODE	01A8				03013070	
IEAVTEST	0008				02012910	
IEAXPALL	0AC0				02051538	
IEAXPDXR	0488				02051538	
IEAXPSIM	0050				02051514	
IEAXSVRB	0028				02010147	
IEAOPL00	00B8				03013052	
IEAORT01	0128				02051413	
IEAOST01	02D8				03053475	
IEAOTI03	0378				03052415	
IEAOTI04	0480				03053425	
IECINTRP	0050				00013427	
IECIOLTS	0570				03012700	
IECIPR1A	0550				03012912	
IECIPR1B	0530				03012913	
IECIPR12	0588				03012913	
IECURATN	0010				01050316	
IECURAT1	0018				01011558	
IEECLCTX	0488				03052740	
IEECMAWR	0238				02012740	

LEVEL 02.0

DSNAME=SYS1.AOSC5

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEECMCTR	0030				02011513	
IEECMCTX	03E8				03012741	
IEECMDOM	01F8				03052741	
IEECMDSV	0668				03052774	
IEECMOCP	0340				02051410	
IEECMPMC	0238				03052740	
IEECMPMP	03C0				03052742	
IEECMPMX	0320				03052742	
IEECMPM1	0248				02012741	
IEECMWSV	0580				03012742	
IEECMWTL	00E0				03052185	
IEECNCTX	03F8				03012741	
IEECOCTX	03F8				03012763	
IEECVCRA	0070				02011413	
IEECVCRX	0060				02011414	
IEECVCTE	0008				02050155	
IEECVCTI	0938				02051894	
IEECVDOM	0010				02050179	
IEECVETA	03A8				01011556	
IEECVETC	0358				01011556	
IEECVETD	03C0				01012008	
IEECVETE	03E8				01011555	
IEECVETF	03D8				01011895	
IEECVETG	03E8				01013397	
IEECVETH	03F8				01011557	
IEECVETJ	0430				01012054	
IEECVETK	0370				01011557	
IEECVETP	0388				01011557	
IEECVETQ	03E0				01011557	
IEECVETR	0438				01012054	
IEECVETU	03F0				01012862	
IEECVETV	03F8				01011586	
IEECVETW	03B0				01011586	
IEECVETZ	0120				01011586	
IEECVET1	03F8				01011963	
IEECVET2	01C0				01011555	
IEECVET3	03C0				01012210	
IEECVET4	0408				01012146	
IEECVET6	03B0				01011556	
IEECVET7	0400				01012146	
IEECVET8	0330				01011556	
IEECVET9	0358				01011556	
IEECVFTA	0368				01011587	
IEECVFTB	03F0				01011872	
IEECVFTD	01D8				01011587	
IEECVFTG	03F8				01011587	
IEECVFTL	0438				01013048	
IEECVFTM	03F0				01012147	

DSNAME=SYS1.AOSC5

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEECVFTN	0318				01011586	
IEECVFTO	0420				01011587	
IEECVFTP	03E8				01013361	
IEECVFTQ	0418				01012147	
IEECVFTR	0128				01011587	
IEECVFTT	01B0				01013361	
IEECVFT1	0160				01011963	
IEECVFT2	0400				01013049	
IEECVGCI	05D8				01013082	
IEECVML3	0420				02013256	
IEECVML5	0420				02012740	
IEECVML6	03B8				02012740	
IEECVML7	0160				02012740	
IEECVOCC	0350				02051414	
IEECVOCX	0350				03052183	
IEECXDOM	0158				03012940	
IEEMFWTO	04C8				02013256	
IEEVRFRX	0198				02050170	
IEEVROUT	0290				02012170	
IEEVWTOR	0380				03052184	
IEE1A03D	05D8				03012740	
IEE1B03D	0268				03012185	
IEE10110	0398				01012008	
IEE11110	0348				01012054	
IEE12110	0348				01011873	
IEE20110	0408				01012878	
IEE21110	0358				01011580	
IEE22110	01F0				01011580	
IEE23110	03D8				01012873	
IEE40110	02C0				01012863	
IGC0001G	0140				00013428	
IGC0003C	01C8				03012913	
IGC0105I	0200				03012700	
IGC116	01F0				01052306	
IGE0025C	02D8				02012775	
IGE0025D	0340				01011595	
IGE0025E	0238				03013256	
IGE0125C	01E8				03012776	
IGE0125E	0200				03012912	
IGE0225C	0330				03012776	
IGE0225E	0378				03012912	
IGE0325C	03C0				02013130	
IGE0425C	03C8				03012776	
IGX00005	01D8				03013504	

NO. MODULES 186
NO. ALIAS 002

LEVEL 02.0

DSNAME=SYS1.AOSC6

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGCOG05B	0230				00012943	
IGCOG95B	0438				00013153	
IGCOH05B	0390				01012564	
IGCOI05B	01B0				01011544	
IGCOJ05B	0370				01012243	
IGCOK05B	0420				01011545	
IGCOL05B	03D8				01011545	
IGCOM05B	0450				01011557	
IGCON05B	01D0				01011557	
IGCON06C	0400				01011558	
IGCOP05B	02C0				01011558	
IGCOR05B	0410				00013318	
IGCOS05B	03D8				01011559	
IGCOT05B	0510				00013204	
IGCOU05B	0348				01011550	
IGCOW05B	03A0				01011550	
IGC0506C	0400				01011574	
IHJACP00	02C0				00032930	
IHJACP01	03D8				00033204	
IHJACP02	0230				00032980	
IHJACP20	0160				01031550	
IHJACP25	04A8				00032930	
IHJACP30	0468				00033204	
IHJACP50	0300				01031593	
IHJACP70	0258				01031558	
IHJARS00	05F8				00033318	
IHJARS01	02D0				01031559	
IHJARS20	07E8				00033259	
IHJARS21	0140				01031550	
IHJARS60	03A8				00033484	

NO. MODULES 030
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
EMODVOL1	0400		A		01011564	IFG0552J
FCBKSTD1	0028		A		01011584	IGG019FH
FCBKSTD2	0030		A		01011595	IGG019FI
FCB2STD1	0038		A		01011574	IGG0197J
FCB2STD2	0048		A		01011574	IGG0197K
IECBBFB1	0058				01011541	
IECQBFG1	00D0				00013184	
IF	0008		A		01011683	IGG0CLC9
IFGAAABA	0210				01011553	
IFGAZ016	0170				00013317	
IFG019RA	0220				01012705	
IFG019TR	0168				00013415	
IFG0190P	0400				00013209	
IFG0190R	0400				00012942	
IFG0193A	0568				00013416	
IFG0193B	0400				01011544	
IFG0193C	0400				01011544	
IFG0193D	0400				01011545	
IFG0193E	0400				01011545	
IFG0194A	0470				01011546	
IFG0194C	0400				01011554	
IFG0194D	0400				01011554	
IFG0194E	0400				01011554	
IFG0194F	0400				01011554	
IFG0194G	0400				01011717	
IFG0194H	0400				01011785	
IFG0194I	0400				01011555	
IFG0194J	0400				01011555	
IFG0195A	0400				00013415	
IFG0195B	0400				01011555	
IFG0195C	0400				01011552	
IFG0195D	0400				01011552	
IFG0195E	0438				01011951	
IFG0195F	0490		A		01012202	IFG0554L
IFG0195G	0400				01011552	
IFG0195H	0400				01011552	
IFG0195J	0400				01011552	
IFG0195K	0400				01011552	
IFG0195M	0490				01011552	
IFG0195N	0400				01011553	
IFG0195O	04B0				00013338	
IFG0195P	0400				01011603	
IFG0195T	04D0				00013224	
IFG0195U	0400				00013225	
IFG0195V	0400				00013252	
IFG0196J	0400				01011544	
IFG0196K	0400				00013338	
IFG0196L	0400				01011545	

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFG0196M	0470				00012838	
IFG0196N	0400				01011550	
IFG0196O	0400				01011550	
IFG0196P	0400		A		01012024	IFG0555J
IFG0196Q	0400				01011551	
IFG0196T	0400				00013429	
IFG0196U	0400				01011551	
IFG0196V	0400				01012495	
IFG0196W	0458				01012496	
IFG0196X	0400				01011964	
IFG0197A	0400				01011552	
IFG0198N	0448				00013416	
IFG0199B	0400				00013258	
IFG0199D	0440				00013013	
IFG0199E	04A8				00013013	
IFG0199R	0400				01012526	
IFG020TR	0168		A		00013415	IFG019TR
IFG0200P	0400				00013278	
IFG0200R	0400		A		00012942	IFG0190R
IFG0200V	04D8				00013416	
IFG0200W	0400				00013416	
IFG0200X	0400				01011566	
IFG0200Y	0458				00013416	
IFG0200Z	0400				00013430	
IFG0201R	0400				00013278	
IFG0202A	0400				00013337	
IFG0202B	0400				00013401	
IFG0202C	0400				01012202	
IFG0202D	0400				01011565	
IFG0202E	0400				00013321	
IFG0202F	0400				01012157	
IFG0202G	0400				01011566	
IFG0202H	0400				01012693	
IFG0202I	0400				00012862	
IFG0202J	0438				01011566	
IFG0202K	07F0				00012953	
IFG0202L	0400				00013417	
IFG0202U	04A0		A		00013433	IFG0232Z
IFG0209B	0400		A		00013258	IFG0199B
IFG0209D	0440		A		00013013	IFG0199D
IFG0209E	04A8		A		00013013	IFG0199E
IFG0209R	0400		A		01012526	IFG0199R
IFG023TR	0168		A		00013415	IFG019TR
IFG0230P	0400				00013209	
IFG0232A	0600		A		00013483	IGC0002C
IFG0232D	0400				00013184	
IFG0232G	0400				00013430	
IFG0232J	0400				01011566	

LEVEL 02.0

DSNAME=SYS1.AOSDO

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFG0232M	0400				01011566	
IFG0232S	0400				01011566	
IFG0232Y	0400		A		00013401	IFG0202B
IFG0232Z	04A0				00013433	
IFG0239B	0400		A		00013258	IFG0199B
IFG0239D	0440		A		00013013	IFG0199D
IFG0239E	04A8		A		00013013	IFG0199E
IFG0239R	0400		A		01012526	IFG0199R
IFG055TR	0168		A		00013415	IFG019TR
IFG0550P	0400				00013209	
IFG0550R	0400		A		00012942	IFG0190R
IFG0551B	0448				01012215	
IFG0551D	0400				01012215	
IFG0551F	05B0				00013430	
IFG0551H	0400				01012141	
IFG0551J	0400				01011968	
IFG0551L	0488				01011727	
IFG0551N	0400				01012368	
IFG0551P	0400				00013477	
IFG0551R	0400				01011567	
IFG0551T	0400				01011567	
IFG0551V	0400				01012632	
IFG0551X	0400				01011716	
IFG0551Z	0400				01011563	
IFG0552B	0400				01011965	
IFG0552D	0400				00013430	
IFG0552F	0400				01011563	
IFG0552H	0488				01012622	
IFG0552J	0400				01011564	
IFG0552L	0400				01011564	
IFG0552N	0400				00013337	
IFG0552P	0400				00012943	
IFG0552R	0470				01012373	
IFG0552T	0400				01011568	
IFG0552V	0400				01012621	
IFG0552X	04C0				01012597	
IFG0552Z	0400				01012622	
IFG0553B	0400		A		01012693	IFG0202H
IFG0553D	0400				01011568	
IFG0553F	0400				01011569	
IFG0553H	0400				01012622	
IFG0553P	0400				00012981	
IFG0553R	0400				00013331	
IFG0553T	0400				01011560	
IFG0553V	0400				01011560	
IFG0553X	04A8				01012370	
IFG0553Z	0400				01011727	
IFG0554B	0480				00012953	

DSNAME=SYS1.AOSDO

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFG0554D	0400				01012075	
IFG0554J	0400				00012953	
IFG0554L	0490				01012202	
IFG0554N	0400				00013338	
IFG0554P	0458				00012981	
IFG0554R	0450				00012990	
IFG0554T	0448				01011571	
IFG0554V	0400				01011571	
IFG0554X	0400				01011571	
IFG0554Z	0400				01011571	
IFG0555B	0400				00013338	
IFG0555D	0400				01011941	
IFG0555F	0400				01011571	
IFG0555H	0598				01012374	
IFG0555J	0400				01012024	
IFG0556B	0400		A		00013401	IFG0202B
IFG0559B	0400		A		00013258	IFG0199B
IFG0559D	0440		A		00013013	IFG0199D
IFG0559E	04A8		A		00013013	IFG0199E
IFG0559R	0400		A		01012526	IFG0199R
IGC0001I	04C0				00013434	
IGC0002A	0400				01011542	
IGC0002B	0398				01011729	
IGC0002C	0600				00013483	
IGC0002D	01A8				01012318	
IGC0002E	0350				00013501	
IGC0002F	05C0				02013273	
IGC0002G	0450				00013222	
IGC0002H	03C8				01011429	
IGC0002I	0400				00012943	
IGC00020	05E0				00013434	
IGC0003A	0470				00013429	
IGC0003B	0400				01012578	
IGC00030	0400				00013334	
IGC0005E	0480				00013429	
IGC0005G	0080				01011990	
IGC0006D	0490				01012506	
IGC0006H	0268				00013501	
IGC0006I	0470				01011604	
IGC0007H	0400				01012643	
IGC0008A	0400				00013420	
IGC0009H	03A8				02012767	
IGC0010C	02D0				01012152	
IGC0010E	0400				00012943	
IGC0102G	0030				01012502	
IGC0106H	02C0				00013205	
IGC0107H	0400				01011574	
IGC0109H	0440				02012767	

LEVEL 02.0

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGC0206H	0310				01011554	
IGC0209H	03F0				02012768	
IGC0306H	0400				00013223	
IGC0406H	03C0				01011554	
IGC0506H	0120				01011554	
IGC0606H	03D8				01011555	
IGC0706H	03E8				01011555	
IGC0806H	01B8				01011555	
IGC0906H	0400				00013208	
IGE0011C	03A8				01050100	
IGE0011D	0330				01050100	
IGE0011E	0168				01051574	
IGGAARPS	00D8				01010599	
IGGR19AE	0220				00013202	
IGGR19BC	0148				01011550	
IGGR19BH	0198				00013431	
IGGR19BK	01C0				01011551	
IGGR19CG	01F0				01011551	
IGGR19CI	0230				01012020	
IGGR19CJ	0250				00013253	
IGGR19CU	06E8				00013205	
IGGR19CV	03D0				01011551	
IGGR19CW	0270				01011552	
IGGR19TV	03E8				01011552	
IGGR19TW	01B8				01011559	
IGGOCLCA	0678				02012847	
IGGOCLCB	0610				02013464	
IGGOCLCC	05A0				01012512	
IGGOCLC0	0410				01012216	
IGGOCLC1	03F8				02012217	
IGGOCLC2	0410				02012218	
IGGOCLC3	03B8				02011723	
IGGOCLC4	03D8				02012218	
IGGOCLC5	03D8				02012218	
IGGOCLC6	03F8				02011724	
IGGOCLC7	0408				02012218	
IGGOCLF2	0398				01011427	
IGG019AA	00A0				01011550	
IGG019AB	00A8				00013339	
IGG019AC	0180				01011551	
IGG019AD	0108				01011551	
IGG019AE	0220		A		00013202	IGGR19AE
IGG019AF	0248				01011552	
IGG019AG	0090				01011552	
IGG019AH	0490				01012279	
IGG019AI	0080				01011573	
IGG019AJ	0110				00013330	
IGG019AK	00E0				01011553	

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG019AL	0148				00013208	
IGG019AM	00A0				01011565	
IGG019AN	0118				01011565	
IGG019AQ	01A8				01011565	
IGG019AR	0110				00012935	
IGG019AT	02F0				01011565	
IGG019AV	00B0				00013205	
IGG019AW	00F8				00013420	
IGG019AX	0078				01011565	
IGG019BA	01C0				01011566	
IGG019BB	0210				00013331	
IGG019BC	0148		A		01011550	IGGR19BC
IGG019BD	0170				01011562	
IGG019BE	0200				01012635	
IGG019BF	0240				01012635	
IGG019BG	00F8				00012954	
IGG019BH	0198		A		00013431	IGGR19BH
IGG019BI	0070				01011562	
IGG019BK	01C0		A		01011551	IGGR19BK
IGG019BL	0110				01011563	
IGG019BM	0090				01011563	
IGG019BN	07C0				00013259	
IGG019BO	0260				01011563	
IGG019BP	03D0				01011569	
IGG019BQ	0350				01011569	
IGG019BU	0098				01011569	
IGG019BV	0148				01011569	
IGG019BO	0080				01011569	
IGG019CA	00B0				01011569	
IGG019CB	00A8				01011560	
IGG019CC	0308				00012771	
IGG019CD	02A0				00013332	
IGG019CE	01A0				01011560	
IGG019CF	0270				00012985	
IGG019CG	01F0		A		01011551	IGGR19CG
IGG019CH	0080				01011564	
IGG019CI	0230		A		01012020	IGGR19CI
IGG019CJ	0250		A		00013253	IGGR19CJ
IGG019CL	0040				01011565	
IGG019CM	0300				01011565	
IGG019CN	0200				01011565	
IGG019CO	0200				00013333	
IGG019CP	0300				01011599	
IGG019CQ	0300				01011599	
IGG019CR	0300				01011599	
IGG019CS	0018				01011599	
IGG019CT	0030				01011599	
IGG019CU	06E8		A		00013205	IGGR19CU

LEVEL 02.0

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG019CV	03D0		A		01011551	IGGR19SV
IGG019CW	0270		A		01011552	IGGR19CW
IGG019CX	00B8				01011590	
IGG019CY	0198				00012985	
IGG019CZ	00D0				01011590	
IGG019C0	00F8				01011591	
IGG019C1	0168				01011593	
IGG019C2	0418				01011593	
IGG019C3	0158				01011593	
IGG019C4	0118				01011561	
IGG019C6	0138				01011712	
IGG019DF	0448				01011554	
IGG019DG	06B8				00013434	
IGG019DH	03A8				01011554	
IGG019DJ	04F0				01012244	
IGG019DK	07A8				01012241	
IGG019DL	0038				01011556	
IGG019DM	0050				01011556	
IGG019EA	0090				01011593	
IGG019EB	0068				01011593	
IGG019EC	0058				01011593	
IGG019ED	00B8				01011593	
IGG019EE	0150				01011574	
IGG019EF	0120				01011594	
IGG019EI	01A0				01011565	
IGG019EJ	01A8				01011565	
IGG019EK	0208				01011574	
IGG019FA	01B0				01011712	
IGG019FB	00E8				01011594	
IGG019FD	01C0				01011594	
IGG019FF	01D0				01011600	
IGG019FG	0228				00013464	
IGG019FH	0028				01011584	
IGG019FI	0030				01011595	
IGG019FJ	0148				01011600	
IGG019FK	01C0				01011712	
IGG019FL	0230				01011600	
IGG019FM	0100				01011557	
IGG019FN	0130				01011562	
IGG019FP	01B8				01011562	
IGG019FQ	0410				01011712	
IGG019FR	00B8				01011562	
IGG019FS	03D0				01011562	
IGG019FU	0108				01011712	
IGG019HT	00B8				01011562	
IGG019TC	01D8				01011566	
IGG019TD	0278				01011566	
IGG019TV	03E8		A		01011552	IGGR19TV

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG019TW	01B8		A		01011559	IGGR19TW
IGG019T2	0420				00013331	
IGG019VA	0108				01052884	
IGG019VB	0168				01052883	
IGG019VC	0140				01052883	
IGG019VD	0190				01052883	
IGG019VE	0328				01052863	
IGG019VF	0050				01052883	
IGG019VG	02E8				01052883	
IGG019VH	0310				01052883	
IGG019VI	00B0				01052883	
IGG019VJ	01A0				01052883	
IGG019VK	0220				01052883	
IGG019V1	00B0				01011574	
IGG019V2	0150				01011574	
IGG019V3	01A0				01011574	
IGG019V4	01B8				01011574	
IGG019V5	0F18				01011727	
IGG0190A	0400		A		01011555	IFG0194J
IGG0190B	0400		A		01011552	IFG0195Q
IGG0190R	0400		A		01011550	IFG0196O
IGG0190S	0400		A		01011552	IFG0197A
IGG0191A	0400				00012958	
IGG0191B	0400				00012959	
IGG0191C	0400				00012953	
IGG0191D	0400				01011600	
IGG0191E	0400				01011600	
IGG0191F	0400				01011600	
IGG0191G	0400				01012566	
IGG0191H	0400				01011715	
IGG0191I	0400				00013469	
IGG0191J	0400				01011601	
IGG0191K	0400				01011601	
IGG0191N	0400				01012566	
IGG0191O	0400				01011601	
IGG0191P	0400				01012566	
IGG0191Q	0400				01011716	
IGG0191R	0400				01011716	
IGG0191S	0400				01011716	
IGG0191T	0400				00012935	
IGG0191U	0400				01011716	
IGG0191V	0400				01011716	
IGG0191W	0400				00012772	
IGG0191X	0400				01011723	
IGG0191Y	0400				01011720	
IGG0191Z	0400				01011723	
IGG01910	0400				01011720	
IGG01911	0400				01011564	

LEVEL 02.0

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG01912	0400				01011720	
IGG01913	0400				01011720	
IGG01914	0400				01011721	
IGG01915	0400				01011721	
IGG01916	0400				01011721	
IGG01917	0420				00012959	
IGG01918	0400				01011722	
IGG01919	0400				01011722	
IGG01923	0400				00013333	
IGG01926	0400				01011572	
IGG0193I	0400				00013334	
IGG0193K	0400				00013253	
IGG0196A	0400				00013159	
IGG0196B	0400				01011723	
IGG0196I	0400				00012959	
IGG0196J	0400				00012983	
IGG0196K	0400				01011573	
IGG0196L	0400				01011573	
IGG0196M	0400				00013258	
IGG0196P	0400				01011723	
IGG0196U	0400				00013159	
IGG0196V	0400				01011557	
IGG0196W	0400				01012698	
IGG0196X	0400				01011558	
IGG0196Y	0400				01011558	
IGG0196Z	0400				01011561	
IGG0197A	0400				01052872	
IGG0197B	0400				01052872	
IGG0197C	0400				01011556	
IGG0197D	0400				01011557	
IGG0197E	0400				00012938	
IGG0197F	0400				00012984	
IGG0197J	0038				01011574	
IGG0197K	0048				01011574	
IGG0197L	0400				01011730	
IGG0197M	0400				01011730	
IGG0197N	0400				01011730	
IGG0197P	0400				01011730	
IGG0197Q	0400				01011741	
IGG0197U	0460				01011724	
IGG0198L	0400				00013259	
IGG0199F	0400				01012240	
IGG0199G	0400				00013371	
IGG0199K	0400				01011574	
IGG0199O	0400				01011574	
IGG0199W	0400				01012240	
IGG0199O	0400				01011574	
IGG01991	0400				01011724	

DSNAME=SYS1.AOSD0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG01992	0400				01011724	
IGG01993	0400				01011724	
IGG01994	0400				01011724	
IGG020D0	0400				00013417	
IGG020D1	0400				00013337	
IGG020P1	0400				00013337	
IGG020P2	0400				00013337	
IGG020P3	0400				00013337	
IGG0200B	0400		A		00013401	IFG0202B
IGG0200F	0400		A		01011566	IFG0200X
IGG0200G	0400		A		01011566	IFG0200X
IGG0201A	0400				01012566	
IGG0201B	0400				01011720	
IGG0201D	0400				01011559	
IGG0201M	0400				01011561	
IGG0201N	0400				01011561	
IGG0201P	0400				01011712	
IGG0201R	0400				01011712	
IGG0201W	0400				00013430	
IGG0201X	0400				01011722	
IGG0201Y	0400				01011723	
IGG0201Z	0400				01011723	
IGG0203K	0400				01011577	
IGG0206M	0400		A		00013278	IFG0200P
IGG021AB	0400				00013334	
IGG0210A	0400				01012374	
IGG029R1	0400				00013334	
IGG0290A	0400				00013130	
IGG0290B	0400				00013264	
IGG0290C	0400				00013147	
IGG0290D	0400				00013264	
IGG0290E	0400				00013130	
IGG0290F	0400				00013128	
IGG0299A	0400				00013129	
IGG03001	0400				01012642	
IGG03002	0400				01011562	
IGG03003	0400				01011562	
IGG0325A	0400				01012642	
IGG0325B	0400				01012566	
IGG0325C	0400				01011568	
IGG0325D	0400				00013339	
IGG0325E	0400				00013335	
IGG0325F	0400				01011568	
IGG0325G	0400				01011568	
IGG0325H	0400				00013335	
IGG0325J	0400				01012569	
IGG0325K	0400				01012563	
IGG0325L	0400				01012563	

LEVEL 02.0

DSNAME=SYS1.AOSDO

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG0325M	0400				01011566	
IGG0325P	0400				00013336	
IGG0325Q	0400				01011566	
IGG0325R	0400				00013336	
IGG0325S	0400				01011567	
IGG0325T	0400				01012506	
IGG0325U	0400				01011567	
IGG0325V	0400				01011567	
IGG0325W	0400				01011567	
IGG0325Z	0400				01011567	
IGG0550B	0470		A		01012373	IFG0552R
IGG0550D	0400		A		01012622	IFG0553H
IGG0550F	0400		A		01011567	IFG0551T
IGG0550H	0400		A		00013337	IFG0552N
IGG0550K	0458		A		00012981	IFG0554P
IGG0550P	0400		A		01011716	IFG0551X
IGG0550S	0448		A		01011571	IFG0554T
IGG0551A	0488		A		01011727	IFG0551L
IGG0551B	0400		A		01012368	IFG0551N
IGG0552K	0450		A		00012990	IFG0554R
IGG0553A	0400				00013128	
IGG0553B	0400				01011874	
IGG0553C	0400				01011582	
IGG0553D	0400				01011582	
IGG0553E	0400				00013122	
IGG0553F	0400				01011582	
IGG0553G	0400				01011582	
IGG08101	0400				01011576	
IGG08102	0400				01011576	
IGG08103	0400				01011576	
IGG08104	0400				00012953	
OMODVOL1	0400		A		01011544	IFG0193C
READPSWD	0398				01011577	
SECLOADA	03E8				00013129	

NO. MODULES 453
NO. ALIAS 061

LEVEL 02.0

DSNAME=SYS1.AOSD7

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGC0005C	0100				00012943	
IGGR19DA	0318				00013337	
IGGR19DB	0360				01011563	
IGGR19DD	0508				01011563	
IGGR19KI	00C0				01011563	
IGGR19KK	0150				00013124	
IGGR19KM	02D0				00013336	
IGGR19KN	0580				00013128	
IGGR19KO	0138				00012943	
IGG019BR	07A8				01011569	
IGG019BS	0168				01011569	
IGG019BT	00B8				01011569	
IGG019DA	0318		A		00013337	IGGR19DA
IGG019DB	0360		A		01011563	IGGR19DB
IGG019DC	00C8				01011569	
IGG019DD	0508		A		01011563	IGGR19DD
IGG019JA	0458				01011781	
IGG019JB	0488				00013127	
IGG019KA	0638				00013333	
IGG019KC	0108				00013483	
IGG019KE	0110				01011560	
IGG019KF	02B8				01011560	
IGG019KG	00A8				01011567	
IGG019KH	00D8				01011583	
IGG019KI	00C0		A		01011563	IGGR19KI
IGG019KJ	0E38				00013025	
IGG019KK	0150		A		00013124	IGGR19KK
IGG019KL	0158				00013128	
IGG019KM	02D0		A		00013336	IGGR19KM
IGG019KN	0580		A		00013128	IGGR19KN
IGG019KO	0138		A		00012943	IGGR19KO
IGG019KQ	0160				01011568	
IGG019KR	0300				01011593	
IGG019KU	0168				00013336	
IGG019KW	0160				01012245	
IGG019KY	00B0				01011583	
IGG019LA	00D8				00012943	
IGG019LC	00A0				00013470	
IGG019LE	0130				01011757	
IGG019LG	0378				01011562	
IGG019LI	00E0				01011563	
IGG0191L	0400				00012954	
IGG0191M	0400				01011712	
IGG0193A	0400				00013014	
IGG0193C	0400				01011712	
IGG0193E	0468				01011951	
IGG0193F	0400				00012938	
IGG0193G	0400				00012849	

DSNAME=SYS1.AOSD7

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG0199L	0400				01011712	
IGG0203A	0400				01011713	

NO. MODULES 042
NO. ALIAS 008

LEVEL 02.0

DSNAME=SYS1.AOSD8

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGC054	0130				01012635	
IGG019GA	0FC0				01011829	
IGG019GB	0FC8				01011820	
IGG019GC	0710				01012246	
IGG019GD	0860				01012288	
IGG019GE	0268				01011556	
IGG019GF	02F8				01011556	
IGG019GG	0538				01012095	
IGG019GH	0100				00012985	
IGG019GL	0998				01011728	
IGG019GM	0A70				01011728	
IGG019GN	0EA8				01011720	
IGG019GO	0FD8				01011758	
IGG019GV	0930				01011685	
IGG019GW	0DD0				00013402	
IGG019GX	0478				00012999	
IGG019GY	0928				00012989	
IGG019GZ	0CF8				00013402	
IGG019G0	0958				01011552	
IGG019G1	0968				01011552	
IGG019G2	0878				01011564	
IGG019G3	09B0				01011564	
IGG019G4	0B58				01011564	
IGG019G5	0BB8				01011564	
IGG019G6	0D10				00013334	
IGG019G7	0F20				00013334	
IGG019G8	0560				01011564	
IGG019G9	0610				01011564	
IGG019HA	0430				01012141	
IGG019HB	0ED0				01011684	
IGG019HC	00C0				00013204	
IGG019HD	0578				01011561	
IGG019HF	0268				01011561	
IGG019HG	0340				01012102	
IGG019HH	0158				01011561	
IGG019HI	0358				01011561	
IGG019HJ	0040				01011562	
IGG019HK	02D0				00013339	
IGG019HL	0278				01011562	
IGG019HN	0F40				01011684	
IGG019HP	04F8				01011560	
IGG019H3	0818				00012998	
IGG019H7	0580				00012998	
IGG019IA	10D8				01012289	
IGG019IB	1120				01012280	
IGG019IE	0268				01011561	
IGG019IF	02F8				01011561	
IGG019IM	08D8				01011561	

DSNAME=SYS1.AOSD8

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG019IN	0EA8				01011561	
IGG019IO	0E78				01011561	
IGG019IX	04A8				00013335	
IGG019IY	0D98				00012989	
IGG019IZ	10E0				01012635	
IGG019I1	0FC8				01011947	
IGG019I2	0FF0				01012635	
IGG019I9	0628				01011567	
IGG019JC	0088				01011567	
IGG019JG	0328				00012990	
IGG019JH	0DF0				01012094	
IGG019JI	02C8				01011568	
IGG019JJ	00C0				01011563	
IGG019JK	0058				01011563	
IGG019JL	0198				01011563	
IGG019JM	0218				01011563	
IGG019JN	03A0				01011563	
IGG019JO	0358				01011563	
IGG019JP	04E0				01011563	
IGG019JQ	0478				01011563	
IGG019JR	0378				00013335	
IGG019JS	0388				01011581	
IGG019JT	04B8				00013330	
IGG019JU	04C8				01011569	
IGG019JV	0148				01012243	
IGG019JW	00C8				01012244	
IGG019JX	0290				01012560	
IGG019J0	06A0				01012560	
IGG019J3	07B8				01012560	
IGG019J6	04E0				01012561	
IGG019J7	0590				01012568	
IGG0192A	0400				00013339	
IGG0192B	0400				01011564	
IGG0192C	0400				00013124	
IGG0192D	0400				01011967	
IGG0192E	0400				01011564	
IGG0192F	0400				00013204	
IGG0192G	0400				00013204	
IGG0192H	0400				00013332	
IGG0192I	0400				00013332	
IGG0192J	0400				01012102	
IGG0192K	0400				00013332	
IGG0192L	0400				01012178	
IGG0192M	0400				01011569	
IGG0192N	0400				01011569	
IGG01920	0400				01011569	
IGG0192P	0400				00013333	
IGG0192Q	0400				01011569	

LEVEL 02.0

DSNAME=SYS1.AOSD8

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG0192R	0400				00013158	
IGG0192S	0400				00013331	
IGG0192T	0400				01011560	
IGG0192U	0400				01011560	
IGG0192V	0400				01011562	
IGG0192W	0400				01011562	
IGG0192X	0400				00013333	
IGG0192Z	0400				01011562	
IGG01920	0400				00013339	
IGG01921	0400				01011806	
IGG01922	0400				01011725	
IGG01924	0400				01011563	
IGG01928	0400				01012020	
IGG01929	0400				01011563	
IGG0195D	0400				01011570	
IGG0195G	0400				00012958	
IGG0195T	0400				00013339	
IGG0195U	0400				01011570	
IGG01950	0400				01011713	
IGG0196C	0400				01011570	
IGG0196D	0400				01012092	
IGG0196G	0400				00013339	
IGG0202A	0400				01012505	
IGG0202D	0400				01011571	
IGG0202I	0400				00013259	
IGG0202J	0400				00013335	
IGG0202K	0400				01011577	
IGG0202L	0400				00013335	
IGG0202M	0400				01012109	
IGG0202N	0400				00013123	
IGG02028	0400				00013402	
IGG02029	0400				00012980	
IGG0321I	0400				00013477	
IGG0321Z	0400				01011571	
IGG0321Z	0400				01011581	
IGG0321Z	0400				01011581	
IGG0321Z	0400				01011581	
IGG0321Z	0400				01011581	
IGG0321Z	0400				01012643	

NO. MODULES 136
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOSG0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
ANLZ	0280		A		01011551	IFFANA
GARC	08F0		A		03011657	IFFPCAAR
GCGRID	0518		A		03011551	IFFPEAGR
GCPRNT	0450		A		03011551	IFFPBAPR
GLABEL	0690		A		03011552	IFFPHALA
GOFFSG	02E8		A		01011552	IFFPPASG
GPGRID	0F08		A		04011552	IFFPIAPG
GPVGRD	0D28		A		04011552	IFFPJAPV
GSDPLT	0F28		A		01011672	IFFPKADG
GSPLOT	0C80		A		03011551	IFFPDAPL
GSTOR	0180		A		01011551	IFFPAAST
GSVPLT	0A98		A		04011598	IFFPGAVP
GVARC	0AC8		A		03011551	IFFPFAVA
IFFABA	0100				03051540	
IFFANA	0280				01011551	
IFFCAN01	08F8				01011551	
IFFCAN02	0980				02012978	
IFFCAN03	0028				01031581	
IFFPAAST	0180				01011551	
IFFPBAPR	0450				03011551	
IFFPCAAR	08F0				03011657	
IFFPDAPL	0C80				03011551	
IFFPEAGR	0518				03011551	
IFFPFAVA	0AC8				03011551	
IFFPGAVP	0A98				04011598	
IFFPHALA	0690				03011552	
IFFPIAPG	0F08				04011552	
IFFPJAPV	0D28				04011552	
IFFPKADG	0F28				01011672	
IFFPLARE	03B8				01011552	
IFFPPASG	02E8				01011552	
IGC0007A	03B0				01051581	
IGC0007C	0328				02051599	
IGC0007D	02D0				01011599	
IGC0007E	0298				02051553	
IGC0107A	0418				01051599	
IGC0107C	01E0				01011552	
IGC0107D	0340				01011553	
IGC0207A	03A0				01011553	
IGC070	0100				01052979	
IGC084	0010				01051553	
IGE0010A	02F0				04051553	
IGE0010B	0390				02051553	
IGE0010E	0400				02012760	
IGE0110B	0080				02011553	
IGE0110E	02F0				02012760	
IGG019DA	0A98				07051590	
IGG019DB	0100				03051580	

DSNAME=SYS1.AOSG0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG019DC	0038				02011580	
IGG019DE	07C0				04052987	
IGG019DJ	00B0				01051580	
IGG019DK	0478				02051581	
IGG0193L	0400				02012987	
IGG0193Y	0400				06051590	
IGG0193Z	0400				02051581	
IGG0203X	0400				02011581	
IGG0203Y	0400				05011581	
PENTRK	03B8		A		01011552	IFFPLARE

NO. MODULES 044
NO. ALIAS 014

LEVEL 02.0

DSNAME=SYS1.AOST4

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEEVSDIO	0870				01013010	
IKJEFF02	05A0				01013028	
IKJEFP00	2458				01013028	
IKJEFP10	0278				01013028	
IKJEFP20	0370				01013028	
IKJEFP30	01F0				01013028	
IKJEFT30	02F8				01013028	
IKJEFT35	0088				01013028	
IKJEFT40	0298				01013028	
IKJEFT45	0638				01013029	
IKJEFT52	00E0				01013029	
IKJEFT53	0090				01013029	
IKJEFT54	0400				01013029	
IKJEFT55	05F8				01013044	
IKJEFT56	0338				01013029	

NO. MODULES 015
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOSU0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEBASCAN	0E90				04012916	
IEBBAM	0360				03012781	
IEBBSCAN	04D0				05052916	
IEBCANAL	0708				05052907	
IEBCCSO2	0BC0				02012781	
IEBCMAIN	1FF8				03012787	
IEBCNVT	0110				01011880	
IEBCOMPM	0F40				03012907	
IEBCONH2	0158				02052908	
IEBCONP2	0078				02052909	
IEBCONZ2	0080				02052909	
IEBCQSAM	0458				04052909	
IEBCRANL	0D08				02012909	
IEBCREAT	0C50				03012900	
IEBCROOT	0630				04052902	
IEBCULET	0588				01050825	
IEBDG	0FD8				03012903	
IEBDGCUP	0410				04011880	
IEBDGMSG	0FA0				04012903	
IEBDRB	03D0				03012781	
IEBDRD	04E8				03012781	
IEBDSCPY	1F98				02012164	
IEBDSU	0498				01011880	
IEBDV1	0DB8				03012782	
IEBDWR	04A0				03012782	
IEBEDIT	1E98				03031429	
IEBEDIT2	01C0				05052903	
IEBFDANL	0C80				03012903	
IEBFDTBL	0A38				04012903	
IEBGENRT	08A0				08052903	
IEBGENR3	0FA0				03012916	
IEBGENS3	0FF8				03012916	
IEBGENQ3	0FB0				03012917	
IEBGMESG	0D30				03012917	
IEBGSCAN	0F70				03012918	
IEBIOE	09B0				03012783	
IEBISAM	04B8				03052918	
IEBISC	0620				03012783	
IEBISF	02B8				02012787	
IEBISL	0550				03012985	
IEBISMES	04D8				03052905	
IEBISPL	07D0				02012905	
IEBISSI	03B8				03012787	
IEBISSO	03F0				02012905	
IEBISU	0378				02012905	
IEBLDUL	06A8				01012164	
IEBLENP2	0070				02052905	
IEBMCM	0290				02011881	

DSNAME=SYS1.AOSU0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEBMOVE2	0060				02052905	
IEBPPAL1	1478				02012905	
IEBPPCH1	1FF0				03012787	
IEBPPMSG	0560				03012905	
IEBPPUN1	0918				02012906	
IEBRSAM	04A0				01011882	
IEBSCN	0F90				02011882	
IEBTCRIN	0F30				01051731	
IEBTCR02	0490				01052884	
IEBTCR03	0448				01052873	
IEBTCR04	0B58				01052883	
IEBTCR05	1158				01052884	
IEBUPDTE	0308				02012918	
IEBUPDT2	1660				02011882	
IEBUPLOG	0FB8				07052918	
IEBUPNIT	0608				04052918	
IEBUPXIT	08E0				03012788	
IEBVCT	02E0				02011882	
IEBVDM	06E8				02011888	
IEBVMS	1208				03012846	
IEBVTM	0930				03012846	
IEBVTT	0398				02011889	
IEBWSAM	05B8				01011889	
IEBWSU	0B48				03012846	
IEHATLAS	0EB8				01011544	
IEHDANAL	1000				00012981	
IEHDAOUT	03A0				01011614	
IEHDASDR	0390				00013338	
IEHDASDS	1008				00012838	
IEHDCONS	01D8				01012168	
IEHDDATE	0100				00013338	
IEHDDOIO	0EC0				00013401	
IEHDDUMP	0EB8				00012837	
IEHDEXCP	07E8				00013259	
IEHDGETA	03F0				01011757	
IEHDIPLI	0868				01012271	
IEHDLABL	03F8				00012981	
IEHDMSGB	0068				00013338	
IEHDMSGS	0B68				00013261	
IEHDPASS	0988				01011559	
IEHDPRNT	0190				00012837	
IEHDRCVR	0838				01011613	
IEHDREST	0FF0				01012636	
IEHDSCAN	0528				01011956	
IEHDVTOC	0D50				00012981	
IEHINITT	11C0				06051728	
IEHIOSUP	1560				01012692	
IEHLIST1	3D00				11013413	

LEVEL 02.0

DSNAME=SYS1.AOSU0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEHLIST2	14C0				06011725	
IEHLIST3	0500				06011725	
IEHMESS	0BA0				01011550	
IEHMOVE	02E0				03012918	
IEHMVESA	03E0				08052908	
IEHMVESC	0E90				02012908	
IEHMVESE	0D10		A		03012901	IEHMVXSE
IEHMVESH	0328				02012909	
IEHMVESI	05A0				10052900	
IEHMVESJ	0620				09052900	
IEHMVESK	0398				08051881	
IEHMVESL	0850				02012900	
IEHMVESM	0A30				02011881	
IEHMVESN	0750				01011881	
IEHMVESO	02D8				07052901	
IEHMVESP	0550				02012901	
IEHMVESQ	05E8				02011882	
IEHMVESR	02E0				06052901	
IEHMVEST	0840				03011882	
IEHMVESU	01C0				07052929	
IEHMVETG	0D78				03012785	
IEHMVETJ	0DA8				03011883	
IEHMVMRY	04B8				05052907	
IEHMVMRZ	0698				03012907	
IEHMVMSN	0148				03052908	
IEHMVMSQ	0228				02052909	
IEHMVMSY	0588				03012909	
IEHMVMTA	03D8				02052919	
IEHMVMTL	0250				05052923	
IEHMVSRA	0810				03011888	
IEHMVSRD	0800				03011889	
IEHMVSRK	0318				02012900	
IEHMVSRM	01C0				08052901	
IEHMVSRV	09F8				03012901	
IEHMVSRX	08A0				03012847	
IEHMVSRY	02C0				08052909	
IEHMVSRZ	0358				07052900	
IEHMVSSF	0B18				11052165	
IEHMVSSS	0E38				02012900	
IEHMVSSV	0408				02012900	
IEHMVSSX	0980				02011880	
IEHMVSSY	0818				02012900	
IEHMVSSZ	06F0				02011881	
IEHMVSTA	07D0				02011881	
IEHMVSTC	06D0				03012901	
IEHMVSTL	0B00				02011882	
IEHMVXSE	0D10				03012901	
IEHMVXSF	0038				06052902	

DSNAME=SYS1.AOSU0

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEHPRNT	0158				02051720	
IEHPROG1	1628				10052989	
IEHPROG2	0E58				08053361	
IEHPROG3	0D70				05052980	
IEHPROG4	03B8				05052980	
IEHPROG5	01D0				04052980	
IEHSCAN	06F8				04051720	
IFHSTATR	0700				01051721	
IGC0003I	0400				01011721	
IGC0008B	0488				00012982	
IGC0008F	0400				01011809	
IGC0108B	03F8				01011757	
IGC0208B	02A0				01012358	
IGC0308B	01C8				00013352	
IGE0011A	03B8				01052884	
IGG019C8	04F8				03012847	
IGG019FT	00F0				02012851	
IGG019P7	0048				01011713	
IGG019P8	0160				01012638	
IGG019P9	0100				01012636	
IGG086AE	0400				01011809	
IGG0860A	0400				01011560	
IGG0860B	0400				01011809	
IGG0860C	0400				01011561	
IGG0860D	0400				01011809	

NO. MODULES 168
NO. ALIAS 001

LEVEL 02.0

DSNAME=SYS1.AOSOA

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IHKAFI	0B90				01031250	
IHKALC	0318				01032449	
IHKAST	0208				01030620	
IHKAVT	0128				01032449	
IHKAWS	0428				01030621	
IHKBGN	01E0				01032449	
IHKBPM	0748				01031220	
IHKBSH	03C8				01030621	
IHKBST	0660				01031250	
IHKCCI	0278				01030461	
IHKCCS	0210				01033168	
IHKCC1	0750				01030622	
IHKCC2	0670				01031220	
IHKCC3	0788				01031220	
IHKCC4	06D8				01031250	
IHKCC5	0790				01030740	
IHKCC6	06A0				01031220	
IHKCC7	0738				01031220	
IHKCC8	07A8				01030623	
IHKCDP	06E8				01030622	
IHKCGN	0798				01030701	
IHKCIP	1178				01031759	
IHKCLN	0590				01030462	
IHKCMD	1038				01033086	
IHKDEF	0018				01033169	
IHKDEQ	06F0				01033613	
IHKDSP	0090				01033169	
IHKEDT	07F8				01033169	
IHKED1	07D0				01033160	
IHKEND	0160				01033160	
IHKEOS	0738				01033165	
IHKERR	0418				01033087	
IHKEXC	1038				01031250	
IHKEXF	1038				01030622	
IHKGCW	09E8				01031250	
IHKGET	07B8				01033169	
IHKINI	0278				01033165	
IHKIPT	0450				01033167	
IHKIRL	0E08				01031250	
IHKIRP	0030				01030622	
IHKLAB	0170				01030622	
IHKLAD	0878				01033086	
IHKLAP	0460				01033087	
IHKLAT	0190				01033164	
IHKLAY	0340				01033164	
IHKLDC	0408				01033168	
IHKLDS	07C8				01033162	
IHKLEW	0190				01030623	

DSNAME=SYS1.AOSOA

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IHKLGF	04F0				01030622	
IHKLGN	0800				01030622	
IHKLST	04B8				01030740	
IHKMAA	0570				01031250	
IHKMGE	07C0				01031251	
IHKMOD	0220				01033168	
IHKMSG	0B80				01033166	
IHKMUF	0750				01030740	
IHKNBX	0650				01030621	
IHKNUM	0088				01033167	
IHKOPN	0428				01032449	
IHKOUT	02E0				01032449	
IHKPUT	05D8				02033072	
IHKRER	0688				02033072	
IHKRNQ	00A8				01030622	
IHKRNR	0670				01033161	
IHKSAV	07A0				01031220	
IHKSCN	0370				01031753	
IHKSDQ	0100				01031250	
IHKSMG	3988				01031754	
IHKSND	0580				01033168	
IHKSRV	04E0				01031760	
IHKSTP	0308				01033087	
IHKSTS	0510				01033161	
IHKSUB	0800				01030740	
IHKSYN	05E8				01031730	
IHKTAB	0470				01030623	
IHKUTM	0258				01033162	
IHKWTR	00D0				01030621	

NO. MODULES 077
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOS00

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEESMFAL	0328				03012420	
IEESMFIT	0410				02011512	
IEESMFI2	0288				02011512	
IEESMFI3	0D08				02011513	
IEESMFOI	0488				02011513	
IEESMFOP	03E8				02011513	
IEESMFWT	05D0				03012270	
IEESMF8C	0408				03012764	
IEFACTFK	0008				02050150	
IEFACTLK	02F0				02051929	
IEFACTRT	0008				02050151	
IEFSMFAT	0358				03052582	
IEFSMFIE	0308				02011816	
IEFSMFLK	0678				03052299	
IEFSMFWI	06D8				03013215	
IEFUIV	0008				02050956	
IEFUJI	0008				02010956	
IEFUJP	0008				02050954	
IEFUJV	0008				02010956	
IEFUSI	0008				02010956	
IEFUSO	0008				02050956	
IEFUTL	0008				02010153	
IEFWAD	0898				02051573	
IFASMFDP	0908				03012980	

NO. MODULES 024
NO. ALIAS 000

DSNAME=SYS1.AOS03

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFNX1A	3318				01012928	
IFNX1J	0C10				01010381	
IFNX1K	08D8				01011027	
IFNX1S	0158				01010380	
IFNX2A	1580				01010380	
IFNX3A	1B10				01010380	
IFNX3B	04C0				01010380	
IFNX3K	07F8				01011027	
IFNX3N	0F10				01012928	
IFNX4D	06B0				01010380	
IFNX4E	0840				01010380	
IFNX4M	0CC0				01012312	
IFNX4N	0920				01010351	
IFNX4S	01B0				01010351	
IFNX4T	0DF8				01012312	
IFNX4V	05F8				01010351	
IFNX5A	1990				01012928	
IFNX5C	0580				01010562	
IFNX5D	1330				01012928	
IFNX5F	0660				01010350	
IFNX5L	0168				01010562	
IFNX5M	0AE0				01011027	
IFNX5P	0928				01010390	
IFNX5V	06F0				01010350	
IFNX6A	11E0				01010841	
IFNX6B	1380				01011394	
IFNX6C	27A8				01010350	
IFOX0A	0408				01011026	
IFOX0B	0478				01010352	
IFOX0C	0698				01010352	
IFOX0D	0BC8				01010563	
IFOX0E	0140				01010352	
IFOX0F	0340				01010352	
IFOX0G	0218				01010352	
IFOX0H	0408				01010352	
IFOX0I	0710				01010351	
IFOX0J	0010				01010351	

NO. MODULES 037
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOS04

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
HEWLFADA	0A78				00013326	
HEWLFAPT	0310				00013327	
HEWLFBTP	10A8				00013327	
HEWLFEND	0240				00013329	
HEWLFENS	02B0				00013329	
HEWLFENT	0290				00013320	
HEWLFESD	0670				00013320	
HEWLFFNL	0910				00013329	
HEWLFIDR	0B08				00013320	
HEWLFINC	0978				00013320	
HEWLFINP	0610				00013320	
HEWLFINT	0F38				00213320	
HEWLFMAP	0F70				00013320	
HEWLFOPT	0818				00013320	
HEWLFOUT	0E60				00013322	
HEWLFRAT	1AF0				00213322	
HEWLFRCG	0110				00013370	
HEWLFREL	0EB8				00013322	
HEWLFROU	0D40				00013322	
HEWLFSCD	1348				00013322	
HEWLFSCN	1350				00013322	
HEWLFSYM	00E8				00013322	

NO. MODULES 022
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOS05

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
HEWLDIDY	01B0				00013323	
HEWLDIOC	1440				00013324	
HEWLDLIB	0E80				00013324	
HEWLDREL	1068				00013326	
HEWLDRGO	02A8				00013323	
IEWLDRGO	02A8		A		00013323	HEWLDRGO
LOADER	02A8		A		00013323	HEWLDRGO

NO. MODULES 005
NO. ALIAS 002

DSNAME=SYS1.AOS06

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFDMSGAJ	01C0				02012739	
IFDMSG00	07D8				02013393	
IFDMSG03	0278				01011796	
IFDMSG04	00E8				01011797	
IFDMSG05	0068				01011797	
IFDMSG06	0058				01011797	
IFDMSG07	01F0				01011797	
IFDMSG08	0048				01011798	
IFDMSG13	00B8				01011799	
IFDMSG22	0138				01011790	
IFDMSG31	0148				01011963	
IFDMSG32	00B8				01011797	
IFDMSG33	01C0				01011797	
IFDMSG37	00B8				01011798	
IFDMSG38	0080				01011799	
IFDMSG50	0850				01011963	
IFDMSG53	00B0				01011790	
IFDMSG54	0120				01011790	
IFDMSG55	0108				01011791	
IFDMSG61	01A0				01011890	
IFDMSG73	0208				01011890	
IFDOLTAA	0148				01011963	
IFDOLTAB	0098				01012451	
IFDOLTAJ	0438				02013260	
IFDOLT00	0680				02013393	
IFDOLT03	0570				00010000	
IFDOLT04	0208				01011890	
IFDOLT05	0528				02013124	
IFDOLT06	0300				02012532	
IFDOLT07	04C8				02012739	
IFDOLT08	0700				01011922	
IFDOLT09	01A8				01011922	
IFDOLT10	0110				01011795	
IFDOLT11	00A8				01012171	
IFDOLT12	0778				01013353	
IFDOLT13	0260				01011796	
IFDOLT14	06B0				02013423	
IFDOLT15	0960				02013423	
IFDOLT16	0388				01011798	
IFDOLT17	0188				01011799	
IFDOLT18	0DB8				01011799	
IFDOLT21	0378				02013340	
IFDOLT22	0740				02013393	
IFDOLT23	09C8				01011790	
IFDOLT24	04A8				02012585	
IFDOLT26	0378				01011791	
IFDOLT28	0198				01013061	
IFDOLT29	00C0				01011793	

LEVEL 02.0

DSNAME=SYS1.AOS06

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFDOLT30	08C0				02013261	
IFDOLT31	0680				02012453	
IFDOLT32	06F8				01011793	
IFDOLT33	08F0				02012532	
IFDOLT34	0280				01011794	
IFDOLT35	0830				01012164	
IFDOLT36	0788				02013124	
IFDOLT37	02C0				01011797	
IFDOLT38	05E0				01012078	
IFDOLT39	0A40				01011797	
IFDOLT41	0138				01011797	
IFDOLT42	0228				01012453	
IFDOLT43	00C8				01012453	
IFDOLT44	01F0				01011797	
IFDOLT46	0740				02012453	
IFDOLT48	08D0				01011798	
IFDOLT49	07E0				01013390	
IFDOLT50	0150				01011798	
IFDOLT51	0128				01011798	
IFDOLT52	0338				02012730	
IFDOLT53	0358				02012730	
IFDOLT54	04B0				01011798	
IFDOLT55	09D0				02012453	
IFDOLT56	03B0				02012730	
IFDOLT59	0008				01011799	
IFDOLT61	0770				02013261	
IFDOLT73	05E8				02013261	
IFDOLT74	0158				01011790	
IFDOLT98	17A0				01012454	
IFDOLT99	1DA8				01013461	
IGC0005I	0398				02013354	
IGC0505I	0330				02013356	
IGC0605I	03E0				02013357	
IGC0905I	0170				02012764	
IGE0019I	0360				01011792	
IGE0119I	02C0				01011792	

NO. MODULES 084
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOS07

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
BCNV	02C0		A		01012987	IHCGSP04
GSP01	0BE8		A		01011550	
IFFAAA01	00A0				01011540	
IFFAAA02	00C0				01011540	
IFFAAA03	0560				02012460	
IFFAAA04	01B8				01011540	
IFFAAA05	03E0				01011593	
IFFAAA06	01C8				01011593	
IFFACA00	0300				01011540	
IFFACA01	02F8				01011541	
IFFACA02	0380				01011554	
IFFACA03	0298				01011554	
IFFACA04	0440				01011554	
IFFACA05	0210				01011541	
IFFACA06	0130				01011541	
IFFACA07	0340				01011541	
IFFACA08	0B88				03011542	
IFFACA13	00B8				01011542	
IFFACA50	01F8				01011542	
IFFADA01	0718				03011542	
IFFADA02	0248				01011542	
IFFADA03	0410				02011542	
IFFAEA01	02D0				01011542	
IFFAEA02	00B0				01011543	
IFFAEA03	00D0				01011543	
IFFAEA04	03F0				01011543	
IFFAEA06	00A8				01011543	
IFFAEA07	0098				01011543	
IFFAFA01	07A0				01011597	
IFFAFA02	0998				01011597	
IFFAFA03	0888				02011597	
IFFAFA04	05E0				02011597	
IFFAFA05	0278				01011543	
IFFAFA06	0120				01011543	
IFFAFA07	0250				01011543	
IFFAFA08	03C0				01011543	
IFFAFA09	0348				01011543	
IFFAFA10	0348		A		01011543	IFFAFA09
IFFAFA11	0398				01011545	
IFFAFA12	0640				01011545	
IFFAFA13	0210				01011545	
IFFAFA14	0068				01011545	
IFFAFA15	0458				01011545	
IFFAFA16	07A0		A		01011597	IFFAFA01
IFFAFA17	05E0		A		02011597	IFFAFA04
IFFAFA18	0278		A		01011543	IFFAFA05
IFFAFA19	02D0				01011545	
IFFAGA01	0418				01011545	

DSNAME=SYS1.AOS07

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFFAGA02	03A8				01011545	
IFFAGA03	0190				01011546	
IFFAGA04	00B8				01011559	
IFFAGA05	0238				01011546	
IFFAGA06	0AF8				01011597	
IFFAGA07	0A80				02013058	
IFFAGA08	0348				01011546	
IFFAHA01	05E8				02012385	
IFFAHA02	0490				02011558	
IFFAHA03	01E8				02011559	
IFFAHA04	05F8				01012976	
IFFAHA05	08F8				02011597	
IFFAHA06	0248				01011559	
IFFAHA07	0630				01011597	
IFFAHA11	03D8				01011550	
IFFAHA12	05B8				01011550	
IFFAHA13	04D0				01012989	
IFFAHA14	04D0		A		01012989	IFFAHA13
IFFAHA15	0248		A		01011559	IFFAHA06
IFFAHA16	0BE8				01011550	
IFFAJA01	0130				01011550	
IFFAJA02	0208				01012977	
IFFAJA03	0208		A		01012977	IFFAJA02
IFFAJA04	0138				01011550	
IHCGSP01	00A8				01011593	
IHCGSP02	00F0				01011593	
IHCGSP03	0160				02011593	
IHCGSP04	02C0				01012987	
IHDGSP01	00A0				01031593	
IHDGSP02	00F0		A		01011593	IHCGSP02
IHDGSP03	0160				01011593	
IHEGSP01	00A0				01011658	
IHEGSP02	00F0		A		01011593	IHCGSP02
IHEGSP03	01B0				01011593	
INGSP	00A0		A		01011658	IHEGSP01
TMGSP	00F0		A		01011593	IHCGSP02

NO. MODULES 071
NO. ALIAS 013

LEVEL 02.0

DSNAME=SYS1.AOS11

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
HHLGTF01	07F0				01012271	
HHLGTF02	00F0				01012241	
HHLGTF03	0140				01011794	
HHLGTF11	0AA8				01012241	
HHLGTF12	0158				01012241	
HHLGTF13	0170				01011794	
HHLINT21	0170				01011794	
HHLINT22	0C40				01011794	
HHLINT31	05E8				01011794	
HHLINT32	0150				01011794	
HHLINT41	0860				01011794	
HHLINT43	00A0				01011795	
HHLRCOV	0170				01011795	
HHLRMMSG	0120				02012455	
HHLRMON	03A8				01011795	
HHLRMSTA	0310				01012241	
HHLROUT	0468				01011795	
HHLSCAN1	0920				01011795	
HHLSCMSG	02D0				01011795	
HHLSERV	07C0				01011793	
HHLSERVA	0420				01012100	
HHLTAIR1	0200				01011795	
HHLTAIR2	0150				01011795	
HHLTAR2	0498				01011794	
HHLTAR3	0328				01011796	
HHLTAR4	0518				01011796	
HHLTAR5	02A8				01011796	
HHLTAR6	0370				01011796	
HHLTCIR	0258				01011794	
HHLTCTL1	08F8				01011796	
HHLTCTL2	06D0				01011796	
HHLTDCB	0060				01011796	
HHLTERM	02F0				01011796	
HHLTFIL	0268				01011797	
HHLTMG1	0160				01011967	
HHLTMG2	0038				01011797	
HHLTPED	0400				01011797	
HHLTPMT	0F10				01011797	
HHLTSCN	0558				01011797	
HHLTSIO	0410				01011797	
HHLTSV1	0F00				02013392	
HHLTSV2	0710				01011797	
HHLTSYNC	1130				02013392	
HHLTSYSM	03C0				01011797	
HHLTTAB	0520				01011798	
HHLTUSR	0340				01012242	
HHLT103	05C0				01011798	
HHLWRAP	0128				02012456	

DSNAME=SYS1.AOS11

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
HHLWRTE	03C8				02012456	

NO. MODULES 049
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.AOS12

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
AMBLKCTL	24C8		A		00013263	HMBLKCTL
AMBLKERR	0268		A		00013336	HMBLKERR
AMBLKIDR	1900		A		00013372	HMBLKIDR
AMBLKLDM	1020		A		00013337	HMBLKLDM
AMBLKMSG	0600		A		01011567	HMBLKMSG
AMBLKOBJ	0EA0		A		01011567	HMBLKOBJ
AMBLKSZE	02B0		A		01011567	HMBLKSZE
AMBLKXRF	2618		A		00013433	HMBLKXRF
HMAPTFLE	2318				01012152	
HMAPTF01	0FA8				02013005	
HMAPTF02	01F0				02012456	
HMASPZAP	2928				02013489	
HMBLKCTL	24C8				00013263	
HMBLKERR	0268				00013336	
HMBLKIDR	1900				00013372	
HMBLKLDM	1020				00013337	
HMBLKLPA	0440				01011567	
HMBLKMSG	0600				01011567	
HMBLKOBJ	0EA0				01011567	
HMBLKSZE	02B0				01011567	
HMBLKXRF	2618				00013433	
HMDPRAPP	1008				02012527	
HMDPRCOM	14A0				02012456	
HMDPRCTL	1D40				01011797	
HMDPRDPS	0DC8				01011797	
HMDPREAD	0BD8				02012456	
HMDPREID	0110				02012667	
HMDPREXT	0640				02012456	
HMDPRFLT	03D8				02012456	
HMDPRFMG	0398				02012456	
HMDPRFRM	0A70				01011799	
HMDPRFSR	3160				02012457	
HMDPRFUB	0450				01011799	
HMDPRFUR	0298				01011799	
HMDPRFXT	0188				01011790	
HMDPRGET	0BD8				01012140	
HMDPRLOD	0F78				02013266	
HMDPRLPA	0348				01012171	
HMDPRMST	0AC8				02013400	
HMDPRNUC	0440				02012457	
HMDPROOT	0408				01011794	
HMDPRPAL	04B0				01011803	
HMDPRPCR	01C8				02013005	
HMDPRPDR	0460				01011794	
HMDPRPJB	05D8				01011794	
HMDPRPMG	03C8				00010000	
HMDPRPMS	06A0				02012457	
HMDPRPPG	08C0				02012457	

DSNAME=SYS1.AOS12

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
HMDPRQCB	0708				01011794	
HMDPRRDC	0C00				01011795	
HMDPRREC	0AB8				01011795	
HMDPRSCN	1298				01011795	
HMDPRSEG	0D58				01011795	
HMDPRSMG	02F0				02012457	
HMDPRSN2	11B0				02012457	
HMDPRSN3	16E0				01011795	
HMDSALDR	13D8				02012457	
HMDSAMSG	0320				02012457	
HMDSAPGE	82C8				02013347	
HMDSAPRO	8000				02012451	
HMDSYS00	0490				02013364	
HMDSYS01	1570				02013395	
HMDSYS02	0990				01011790	
HMDSYS03	0828				02013340	
HMDSY101	07B8				01011790	
IMAPTFLE	2318		A		01012152	
IMASPZAP	2928		A		02013489	
IMCJQAPP	0000				03012984	
IMDUSRFF	26D0				01011820	
IMDUSRF9	0008				01012213	

NO. MODULES 060
NO. ALIAS 010

LEVEL 02.0

DSNAME=SYS1.AOS20

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IECTATEN	0110				21352977	
IECTCHGN	0138				01012978	
IECTEDIT	0890				01012051	
IECTLERP	0168				01012051	
IECTLOPN	01E0				01012057	
IECTONLT	01D0				01012979	
IECTSCAN	0FF0				02012052	
IECTSVC	0208				21352987	
IECTTRNS	0078				01012052	
IGC0A06F	0310				01011627	
IGC0B06F	0168				01011621	
IGC0C06F	0398				01012052	
IGC0D06F	0320				01012970	
IGC0E06F	02D0				01012160	
IGC0F06F	0318				01012160	
IGC0006F	02C0				01012056	
IGC0106F	0350				01011620	
IGC0206F	0330				01011621	
IGC0306F	0398				01011621	
IGC0406F	0368				01011621	
IGC0506F	0360				01011622	
IGC058	0148				01012056	
IGC0606F	01E8				01011622	
IGC0706F	02C8				01011622	
IGC0806F	03B0				01011622	
IGC0906F	0310				01011622	
IGC1006F	0340				01012168	
IGC1106F	0378				01012169	
IGC1206F	00C0				01011811	
IGC1306F	0228				01012161	
IGC1406F	0210				01012161	
IGE0004A	0220				01012971	
IGE0004B	01A0				01012092	
IGE0004C	02F0				01012972	
IGE0104A	0220				01012052	
IGE0104B	0148				01011621	
IGE0104C	0178				01012052	
IGE0204A	0230				01012973	
IGE0204B	0198				01011621	
IGE0204C	0410				01012054	
IGE0304A	0230				01011621	
IGE0304B	02C0				01012054	
IGE0304C	0168				01012054	
IGE0404A	0190				01011622	
IGE0404B	01F0				01012177	
IGE0404C	0300				01011622	
IGE0504A	0298				01012054	
IGE0504B	01A8				01012054	

DSNAME=SYS1.AOS20

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGE0504C	03B8				01012055	
IGE0604A	0138				01011623	
IGE0604B	00F8				01011622	
IGE0604C	01C0				01012055	
IGE0704A	01A0				01011622	
IGE0704B	00F8				01012160	
IGE0704C	01A8				01012055	
IGE0804A	00B0				01011622	
IGE0804B	0250				01011622	
IGE0804C	01E8				01011622	
IGE0904A	00F8				01011622	
IGE0904C	03F8				01012975	
IGG019LP	0408				01011651	
IGG019MA	0C40				01012976	
IGG019MB	13E0				01012979	
IGG019MC	0500				01012055	
IGG019MD	00F0				01011660	
IGG019ME	00D0				01011660	
IGG019MF	0138				01011660	
IGG019MI	00C0				01011661	
IGG019MJ	00E0				01011661	
IGG019MK	00E0				01011661	
IGG019ML	0098				01011661	
IGG019MN	0090				01011661	
IGG019MP	00B0				01012055	
IGG019MR	0AE8				01012970	
IGG019MS	0138				01012055	
IGG019MT	0098				01011661	
IGG019MU	00B0				01011650	
IGG019MV	0110				01011650	
IGG019MW	00C0				01011650	
IGG019MX	0110				01011650	
IGG019MY	00D8				01011660	
IGG019MZ	0098				01011660	
IGG019M0	0110				01012971	
IGG019M1	00D8				01011660	
IGG019M2	0098				01011660	
IGG019M3	0128				01011660	
IGG019M4	00C8				01011660	
IGG019M5	0120				01011651	
IGG019M6	01A8				01012169	
IGG019PA	01D8				01013438	
IGG019PB	00A0				01011651	
IGG019PC	0140				01012056	
IGG019PD	03F0				01012056	
IGG019PE	0070				01012055	
IGG019PF	0090				01012055	
IGG019PG	0090				01012057	

LEVEL 02.0

DSNAME=SYS1.AOS20

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IGG019PH	0078				01012769	
IGG019PI	01D0				01012057	
IGG019PK	0040				01012056	
IGG019PL	0108				01011651	
IGG019PM	0150				01011651	
IGG019PN	00E0				01012056	
IGG019PO	0138				01011651	
IGG019PP	00E0				01011651	
IGG019PQ	0110				01012057	
IGG0193M	0400				01012056	
IGG0193Q	0400				01012989	
IGG0193S	0400				01011903	
IGG0194N	0400				01012057	
IGG0194P	0400				01013366	
IGG0194Q	0400				01012057	
IGG0203M	0400				01012059	

NO. MODULES 112
NO. ALIAS 000

DSNAME=SYS1.AOS21

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEDQATTN	0018				01013412	
IEDQEB	03F8				06012664	
IED1303D	0180				01011265	
IGC0010D	0008				01013419	
IGC1303D	0180		A		01011265	IED1303D

NO. MODULES 004
NO. ALIAS 001

LEVEL 02.0

DSNAME=SYS1.APARMLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IEABLD00	0000				22920111	
IEAIGE00	0000				02010182	
LNKLST00	0000				02050129	
SMFDEFLT	0000				02011722	

NO. MODULES 004
NO. ALIAS 000

DSNAME=SYS1.APROCLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
ASMFC	0000				01010327	
ASMFCG	0000				01010327	
ASMFCL	0000				01010327	
ASMFCLG	0000				01010327	
ASMS	0000				01032457	
DSO	0000				02010127	
DSOJS	0000				02010127	
GTF	0000				01013495	
GTFSNP	0000				01013495	
IEEVMPCR	0000				02010663	
IEFREINT	0000				02010125	
INIT	0000				02010852	
INITD	0000				22790426	
INITS	0000				01011560	
LINKS	0000				01031561	
LKED	0000				23360002	
LKEDG	0000				23360003	
MIC	0000				01011537	
PRDMP	0000				01013116	
PTFLE	0000				01012882	
RDR	0000				22740176	
RDRT	0000				22740177	
RMTGEN	0000				01052067	
WTR	0000				02033557	
WTRT	0000				02010854	

NO. MODULES 025
NO. ALIAS 000

LEVEL 02.0

DSNAME=SYS1.ARMTMAC

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
$ABTERM	0000				01051675	
$ADDPCE	0000				01051675	
$BRTAB	0000				01051675	
$CHEK	0000				01051676	
$CHKAL	0000				01051676	
$DCB	0000				01051676	
$DEB	0000				01051676	
$DECODE	0000				01051676	
$DECOD1	0000				01051676	
$DEFINE	0000				01051676	
$DELPCE	0000				01051678	
$DISABLE	0000				01051678	
$DLENGTH	0000				01051678	
$ENABLE	0000				01051678	
$EXCP	0000				01051678	
$EXTP	0000				01051678	
$FREEBUF	0000				01051678	
$FREUNIT	0000				01051679	
$GETBUF	0000				01051679	
$GETPCE	0000				01051679	
$GETREC	0000				01051670	
$GETUNIT	0000				01051670	
$IFSDEF	0000				01051670	
$IFSGETQ	0000				01051670	
$IFSPUTQ	0000				01051670	
$NPEXIT	0000				01051670	
$POST	0000				01051670	
$PUTREC	0000				01051670	
$QSIZ	0000				01051671	
$SETPARM	0000				01051671	
$STIMER	0000				01051671	
$TRACE	0000				01051671	
$TTIMER	0000				01051671	
$UCB	0000				01051689	
$WAIT	0000				01051689	
$XXC	0000				23340235	
IFSCMD	0000				01052659	
IFSDCT	0000				01052069	
IFSDEB	0000				01052072	
IFSIBCT	0000				22860305	
IFSIFCLO	0000				01051675	
IFSIFGET	0000				01052556	
IFSIFOPE	0000				01053072	
IFSIFPUT	0000				01052556	
IFSIFRPY	0000				01051676	
IFSIFSV	0000				01052556	
IFSIFWTO	0000				01051674	
IFSINIT	0000				01053072	

LEVEL 02.0

DSNAME=SYS1.ARMTMAC

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
IFSLNMGR	0000				01053429	
IFSLOGON	0000				01052659	
IFSNUC	0000				01052659	
IFSPCE	0000				01052278	
IFSPGTBS	0000				01052069	
IFSPREIN	0000				01052659	
IFSPRPU	0000				01052860	
IFSPURGE	0000				01051675	
IFSRB360	0000				01052555	
IFSRCNS	0000				01052555	
IFSRCT	0000				01051678	
IFSREAD	0000				01051675	
IFSRLOAD	0000				01051731	
IFSRMTBL	0000				01051684	
IFSROPTS	0000				C9C6 2 9	
IFSRSYS3	0000				01052878	
IFSRTAB	0000				01051678	
IFSRTMTB	0000				01051678	
IFSR1130	0000				01051731	
IFSSTAE	0000				01053359	
IFSSTBUF	0000				01051678	
IFSSYST	0000				01052659	
IFSTPBUF	0000				01052069	
IFSTRMAC	0000				01051678	
IFSTSTBL	0000				01051679	
IFSUEL	0000				01051679	
LINE	0000				22940099	
NULL	0000				01051674	
PARMD	0000				01051674	
RTAM	0000				22710146	
TERMINAL	0000				22940098	

NO. MODULES 079
NO. ALIAS 000

LEVEL 02.0
DSNAME=SYS1.ASAMPLIB

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
COBSAMP	0000				01011657	
DASDI	0000		A		00013337	
DUMPREST	0000		A		00013086	
GSPSAMP	0000				01011658	
IBCDASDI	0000				00013337	
IBCDMPRS	0000				00013086	
ICAPRTBL	0000				00013469	
IEAIPL00	0000				03013364	
IEBDATGN	0000				22900529	
IFOSAMP	0000				01010345	
IMCJQAPP	0000				03013125	
IMCJQMCI	0000				03013368	
IVPJOBS	0000				D7D3 1 2	
PL1SAMP	0000				01011658	
SAMP2250	0000				02011657	
SAMP2260	0000				02011657	
SAMP327L	0000				01012053	
SAMP327R	0000				02012053	
SMFEXITS	0000				22850218	
SMFE15	0000				03011720	
SMFE35	0000				02011720	
SMFFRMT	0000				02012163	
SMFSORT	0000				22780378	
TESTEXIT	0000				02011724	
USERLABL	0000				01011568	

NO. MODULES 023
NO. ALIAS 002

DSNAME=SYS1.ATSOMAC

MODULE NAME	MOD SIZE	MOD SIZE CHG.	A L S	OLD SSI	NEW SSI	ALIAS TRUE NAME
GETLINE	0000				01011757	
IKJCPPL	0000				23041701	
IKJCSOA	0000				23041712	
IKJCSPL	0000				23041714	
IKJDAPL	0000				23041722	
IKJDAP08	0000				23041728	
IKJDAP2C	0000				23020170	
IKJECT	0000				23000667	
IKJENDP	0000				23020471	
IKJIDENT	0000				23020476	
IKJIOPL	0000				23020479	
IKJKEYWD	0000				23020481	
IKJNAME	0000				23020482	
IKJPARM	0000				23020486	
IKJPGPB	0000				23020490	
IKJPOSIT	0000				23020491	
IKJPPL	0000				23020493	
IKJPTPB	0000				23051579	
IKJRLSA	0000				23020522	
IKJSTPB	0000				23020524	
IKJSUBF	0000				23020526	
IKJTAIE	0000				23141723	
IKJTAXE	0000				23211862	
IKJUPT	0000				23020552	
PUTGET	0000				23020569	
PUTLINE	0000				23001708	
STACK	0000				23001709	
STAX	0000				23211859	

NO. MODULES 028
NO. ALIAS 000

Part 3: Ordering and Distribution

Part 3 contains the ordering and distribution information for VS1 Release 2. It is divided into four sections:

Section 1: Ordering Procedures

Section 2: Distribution Procedures

Section 3: Hardware Engineering Change Levels

Section 4: Program Material Lists and Optional Program Material

Part 3, Section 1: Ordering Procedures

This section describes the ordering procedure for Release 2 of VS1.

Starter System Ordering Procedures

To order Release 2 of OS/VS1, contact your IBM salesman or your DP Branch Office, It is no longer necessary to fill out a Program Order Form; your IBM representative places the order for you. An initial order may include the base program and any features available.

System generation can be done using an existing VS1 system, or a seperately orderable Starter System. If you already have the Release 1 Starter System, or choose to use VS1 for generation, it is not necessary to order the Release 2 Starter System. An exception is the 155 II, or 158 user who should use the Release 2 Starter System which uses 155 II or 158 error recovery procedures.

The VS1 program number is 5741-020. The starter operating system provided for the first system generation consists of:

- A control program that supports the CPUs and I/O devices needed to perform the system generation.
- An assembler, and a linkage editor.
- The utilities used for data set and volume initialization and for Stage II processing.

All new users of VS1 should order the Starter System as well as the Distribution Libraries. The first system generation of VS1 cannot be performed without the Starter System.

VS1 is distributed on magnetic tape only. When ordering the Distribution Libraries specify:

9027 for 9 track, 800 bpi tape

9029 for 9 track, 1600 bpi tape

The Starter System is ordered by feature number as indicated. For a starter system of the desired tape density to be restored to either a 2314/2319 or 3330 disk storage device, indicate one of the feature numbers listed.

For a 2314/2319 Starter System, order:

Feature Number	*Tape*
6000	9 track, 800 bpi tape
6001	9 track, 1600 bpi tape

For a 3330 Starter System, order:
(See note below)

Feature Number	*Tape*
6002	9 track, 800 bpi tape
6003	9 track, 1600 bpi tape

Figure 3-1 summarizes the tape distribution for the OS/VS1 SCP. Two new features of Release 2 are available in card decks, they are the IBM 1130, and the IBM System/3 workstation programs.

Feature Number	*Deck Description*
6004	System/3 Workstation Starter Deck (138-96 column cards)
6005	1130 System Workstation Bootstrap Deck. (8-80 column cards)

System/360 and System/370 workstation support is provided as part of the release.(The 2770, and the 2780 are not programmable terminals).

Features (such as the Starter System) may be ordered through the DP Branch Office via a Machine Equipment Specification (MES) after OS/VS1 is ordered initially.

Several other SCP programs are available to VS1 users (at no additional cost) that are not shipped in the distribution libraries (DLIBs). They must be ordered separately. Programs that must be ordered separately are Emulator programs, TCAM, and FD (Form Description) macros and utility support for the 3735 Programmable Buffered Terminal. To order these additional programs, or for additional information about these programs, see your IBM marketing representative.

Note: *Feature number 6999 must be used when no starter system is ordered.*

SCP Number	Feature Specify Number	Tape	Tape Contents	Format	Target Pack Name
5741-020	Feature Nos. 6000 6001	9-Track (800bpi) 9-Track (1600bpi)	Starter System 2314/2319	Restore	DLIBA1
5741-020	Feature Nos. 6002 6003	9-Track (800bpi) 9-Track (1600bpi)	Starter System 3330	Restore	DLIBA1
5741-020	Specify No. 9027 9029	9-Track (two) (800bpi) 9-Track (two) (1600bpi)	SCP Distribution Libraries (DLIB)*	IEBCOPY/ LOAD	DLIBA2 (3330) DLIBA2 DLIBA3 (2314)

DASDI and Dump/Restore precede the dumped disk pack data on a restore tape.

*TCAM and Emulator SCP programs must be ordered separately under their own order numbers.

Figure 3-1. Tape Distribution for the OS/VS1 SCP

Part 3, Section 2: Distribution Procedures

This section describes the medium and procedures for distribution of OS/VS1 Release 2.

VS1 Distribution Procedures

Release 2 VS1 Distribution Libraries (DLIBs) are distributed as unloaded partitioned data sets on magnetic tape. You can load the distribution libraries onto two 2314/2319 or one 3330 direct access devices, using the IEBCOPY utility. This procedure decreases configuration restrictions. The IEBCOPY utility is included in the 2314/2319 or 3330 Starter Systems.

The only component not distributed in the unload/load format is the VS1 Starter System, which is distributed in the dump/restore format. VS1 distribution libraries and starter systems are distributed on 9 track 800 bpi tape, or 9 track 1600 bpi tape. For ordering assistance, contact your IBM marketing representative. However, if you request 9 track 1600 bpi, you should not submit a tape.

Part 3, Section 3: Hardware Engineering Change Levels

This section defines, by hardware component, minimum engineering change levels known to be required for implementation of this release of VS1.

EC Level Requirements For OS/VS1 Program Hardware

Format is: Machine Type, EC Requirements, Release Number, Comments. EC levels for Release 2 are the same as Release 1 levels. For your convenience, they are repeated here.

1130,419694, 1; BTAM/BSC
1130SCA, 571044, 1, BTAM/BSC
1419, Mod 1 and Mod 31, 135298, 1, ECA 236
Features 7730 & 3800, 1419/1275 MICR
1419, Mod 32, 13348, 1, ECA 236
Features 2996 & 3800, 1419/1275 MICR
2020 BSCA Sub Mod 284, 391563, 1, BTAM/BSC
2020 BSCA Sub Mod 5, 13018, 1, BTAM/BSC
2025 ICA, 128244, 1, Micro-prog, BTAM/BSC
2025 ICA, 132850, 1, Hardware, BTAM/BSC
2314, 416155, & REA's 1332087 & 1332088, 1, Micro-prog
2314, 420901, 1
2314, 420653, & REA 1332822, 1
2314, 420919, 420945, 1, Shared DASD,
ECA's 79, 80
2314, 420662, 1, Physical Drive ID, ECA 81
2314, 420945, 1, Addl Shared File, ECA 80
2701TA3, 306713, 1, BTAM, ECA 86
2701SDA2, 306749, 1, BTAM/BSC, ECA 109
2702, 305393, 1, dial disable
2702, 305396, 1, dial disable
2702, 305396, 1
2702, 305911, 1, MCS, ECA 33
2703, 307702, 1, BTAM/BSC
2740, 307447B, 307463A, 307475, 1,
TWO CHAR ANS, ECA 2, 3, 4
2780 Models 1 & 2, 814837 or REA 23-03210, 1,
POINT/POINT
2780 Models 1 & 2, 814843 or REA 23-03210, 1,
MULTIPOINT
2780 Models 1 & 2, 307777, 1, BTAM/BSC
2803, 731529, 1, ECA 175
2803A2, 732332, 1, ECA 37
2803-2, 731563, 1, ECA 189
2804-2, 731608, 1, see Note, ECA 170
2821, 125598, 1, Basic
2821, 125632, 1, UCS
2821, 125632, 1, SAM Printer Sched, ECA 49
2821, 133291, 1, TCS
2844, 420919, 420945, 1, Shared DASD, ECA's 32, 33
2848, 413140, 1, Micro-Prog
2848, 413160, 1, Hardware
2848, 709304, 1, Display Control Unit Addr. 0
2848, 307531 or 307539, 1, BTAM, ECA's 21, 49
3135, 391180, 1, Hardware
3135, 391266, 1, Microcode
3145, 135345, 1, Hardware, REA's 4624 & 4637
3145, 128610, 1, Microcode

Note: EC 731608 *not required on 2804-2 for release 2 if a dual density control unit or exposure to* NRZI *tapes does not exist.*

Part 3, Section 4: Program Material List and Optional Program Materials

The program material list (basic) identifies the components of OS/VS1, their residence when ordered, and the basic documents needed to initiate use of the system. The only distribution medium is magnetic tape.

The optional program material list provides information for ordering symbolic libraries.

Section Outline

Program Material List for OS/VS1 Release 2

Optional Program Material

Program Material List For OS/VS1 Release 2

Component	Component ID	Distribution Library
Scheduler SMF	5741-SC1-00	SYS1.AOS00
System Assembler	5741-SC1-03	SYS1.AOS03
Linkage Editor	5741-SC1-04	SYS1.AOS04
Loader	5741-SC1-05	SYS1.AOS05
OLTEP	5741-SC1-06	SYS1.AOS06
GSP	5741-SC1-07	SYS1.AOS07
CRJE	5741-SC1-0A	SYS1.AOS0A
GTF	5741-SC1-11	SYS1.AOS11
HMASPZAP	5741-SC1-12	SYS1.AOS12
HMDPRDMP	5741-SC1-13	SYS1.AOS12
HMBLIST	5741-SC1-14	SYS1.AOS12
HMAPTFLE	5741-SC1-16	SYS1.AOS12
HMDPRDMP(Edit)	5741-SC1-18	SYS1.AOS12
BTAM	5741-SC1-20	SYS1.AOS20
Teleprocessing Modules	5741-SC1-21	SYS1.AOS21
JECS	5741-SC1-B0	SYS1.AOSB0
Input Stream Control	5741-SC1-B1	SYS1.AOSB0
Output Stream Control	5741-SC1-B2	SYS1.AOSB0
Q Manager	5741-SC1-B5	SYS1.AOSB0
System Restart	5741-SC1-B3	SYS1.AOSB3
Allocation	5741-SC1-B4	SYS1.AOSB3
Initiator	5741-SC1-B6	SYS1.AOSB3
Termination	5741-SC1-B7	SYS1.AOSB3
Commands	5741-SC1-B8	SYS1.AOSB3
Interpreter	5741-SC1-B9	SYS1.AOSB3
Restart Rdr/DSDR Processing	5741-SC1-BD	SYS1.AOSB3
System Log	5741-SC1-BE	SYS1.AOSB3
WTP	5741-SC1-BF	SYS1.AOSB3
MSI (Master Sched. Init.)	5741-SC1-BG	SYS1.AOSB3
RES	5741-SC1-BB	SYS1.AOSBB
RES Acct. Facility	5741-SC1-BC	SYS1.AOST4 SYS1.AOSBB
Overlay Supervisor	5741-SC1-C2	SYS1.AOSC2
Fetch	5741-SC1-C7	SYS1.AOSC2
IOS	5741-SC1-C3	SYS1.AOSC5
Supervisor	5741-SC1-C5	SYS1.AOSC5
Extended Precision Floating Point Simulator	5741-SC1-CP	SYS1.AOSC5
DIDOCS	5741-SC1-C4	SYS1.AOSC5
Checkpoint /Restart	5741-SC1-09	SYS1.AOSC6
DASD ERP	5741-SC1-CA	SYS1.AOSCA
Unit Record ERP	5741-SC1-CB	SYS1.AOSCA
Tape ERP/VES	5741-SC1-CC	SYS1.AOSCA
OBR/ERP/RDE	5741-SC1-CD	SYS1.AOSCD
RMS	5741-SC1-CE	SYS1.AOSCE
Extd. SVC Router	5741-SC1-CF	SYS1.AOSC5
SAM	5741-SC1-D0	SYS1.AOSD0
Open/Close/EOV	5741-SC1-D1	SYS1.AOSD0
PAM	5741-SC1-D2	SYS1.AOSD0
DADSM	5741-SC1-D4	SYS1.AOSD0
MICR	5741-SC1-D6	SYS1.AOSD0
JAM	5741-SC1-D9	SYS1.AOSD0
JES Compatibility Interface	5741-SC1-DB	SYS1.AOSD0
Catalog	5741-SC1-D3	SYS1.AOSD0
OCR	5741-SC1-D5	SYS1.AOSD0
Password Protect	5741-SC1-DC	SYS1.AOSD0
3505/3525 Reader/Punch	5741-SC1-DD	SYS1.AOSD0

Component	Component ID	Distribution Library
DAM	5741-SC1-D7	SYS1.AOSD7
ISAM	5741-SC1-D8	SYS1.AOSD8
GAM	5741-SC1-G0	SYS1.AOSG0
IEHDASDR	5741-SC1-U0	SYS1.AOSU0
IEHIOSUP	5741-SC1-U1	SYS1.AOSU0
IEHATLAS	5741-SC1-UF	SYS1.AOSU0
IEHLIST	5741-SC1-U2	SYS1.AOSU0
IEHPROGM	5741-SC1-U3	SYS1.AOSU0
IEHINITT	5741-SC1-UD	SYS1.AOSU0
IFHSTATR	5741-SC1-UE	SYS1.AOSU0
IEBEDIT	5741-SC1-U9	SYS1.AOSU0
IEBTCRIN	5741-SC1-UG	SYS1.AOSU0
IEHMOVE	5741-SC1-UC	SYS1.AOSU0
IEBCOPY	5741-SC1-U6	SYS1.AOSU0
IEBGENER	5741-SC1-U7	SYS1.AOSU0
IEBUPDTE	5741-SC1-U8	SYS1.AOSU0
IEBPTPCH	5741-SC1-UA	SYS1.AOSU0
IEBCOMPR	5741-SC1-UK	SYS1.AOSU0
IEBISAM	5741-SC1-UH	SYS1.AOSU0
IEBDG	5741-SC1-UJ	SYS1.AOSU0
Sysgen	5741-SC1-S1	SYS1.AGENLIB
Supervisor Sysgen	5741-SC1-S4	SYS1.AGENLIB
Scheduler Sysgen	5741-SC1-S5	SYS1.AGENLIB
Service Aids Sysgen	5741-SC1-S6	SYS1.AGENLIB
Release Level Macros	5741-SC1-0B	SYS1.AGENLIB and SYS1.AMODGEN
SGIEH402	5741-SC1-UX	SYS1.AGENLIB
Common Supvr Macros	5741-SC1-CN	SYS1.AMACLIB
HMDSADMP	5741-SC1-15	SYS1.AMACLIB
NIP	5741-SC1-C8	SYS1.AMODGEN
Mapping Macros**	5741-SC1-01	SYS1.AMODGEN
Cond. Assem. Sw.	5741-SC1-CS	SYS1.APNTMAC
SMF	5741-SC1-02	SYS1.ASAMPLIB
IBCDMPRS	5741-SC1-I0	SYS1.ASAMPLIB
IBCDASDI	5741-SC1-I1	SYS1.ASAMPLIB
ICAPRTBL	5741-SC1-I2	SYS1.ASAMPLIB
IMCJOBQD	5741-SC1-17	SYS1.ASAMPLIB
IPL	5741-SC1-C1	SYS1.ASAMPLIB
IVP	5741-SC1-08	SYS1.ASAMPLIB

* Release Level Macros are divided between these DLIBs.

** Mapping Macros are divided between SYS1.AMODGEN and SYS1.APVTMACS (SYS1.APVTMACS is part of the optional materials and contains the optional Mapping Macros).

Optional Program Material

The Optional Program Material is distributed with a condensed Symbolic Library. It is available from PID on 9-track magnetic tape (800 or 1600 bpi). Magnetic tape is the only distribution medium.

The requestor may forward or order magnetic tapes following the current ordering procedures.

The optional materials consist of four items:

a. A 9-track 800 bpi tape [component source code (Symbolics)]

b. A 9-track 1600 bpi tape [component source code (Symbolics)]

c. The programming logic documentation support

d. Microfiche of the program assembly listings

Items a and b each make up a distribution tape volume, which is identified by volume number and ordered by feature number.

The component programs [and their identification (ID)] associated with the distribution volumes are listed for the particular volume. The associated programming logic documentation is also listed.

When you order either a or b, you will receive the components listed in Figure 3-2. Items c and d may be ordered individually through your IBM representative.

Note: *To obtain* PVTMACS *you must order group 1.*

Distribution Group Number	Feature	Description			User Volume Required
1	7801	9-Track 800bpi Magnetic Tape, Installation Processors			1
	7802	9-Track 1600bpi Magnetic Tape, Installation Processors			1
		Components	Component ID	Logic Manuals	
		System Assembler	5741-SC1-03	SY33-8041	
		Linkage Editor	5741-SC1-04	SY26-3815	
		Loader	5741-SC1-05	SY26-3814	
		PVTMACS	—	—	
		Description			
2	7805	9-Track 800bpi Magnetic Tape, Utilities			1
	7806	9-Track 1600bpi Magnetic Tape, Utilities			1
		Components	Component ID	Logic Manuals	
		IBCDMPRS	5741-SC1-I0		
		IBCDASDI	5741-SC1-I1		
		ICAPRTBL	5741-SC1-I2		
		IEHDASDR	5741-SC1-U0		
		IEHIOSUP	5741-SC1-U1		
		IEHLIST	5741-SC1-U2		
		IEHPROGM	5741-SC1-U3		
		IEHMOVE	5741-SC1-UC		
		IEHINITT	5741-SC1-UD		
		IFHSTATR	5741-SC1-UE	SY35-0005	
		IEHATLAS	5741-SC1-UF		
		IEBTCRIN	5741-SC1-UG		
		IEBCOPY	5741-SC1-U6		
		IEBGENER	5741-SC1-U7		
		IEBUPDTE	5741-SC1-U8		
		IEBPTPCH	5741-SC1-UA		
		IEBEDIT	5741-SC1-U9		
		IEBCOMPR	5741-SC1-UK		
		IEBISAM	5741-SC1-UH		
		IEBDG	5741-SC1-UJ		

Figure 3-2. Optional Program Material (Part 1 of 4)

Distribution Group Number	Feature	Description	User Volume Required
3	7809	9-Track 800bpi Magnetic Tape, Data Management - Primary	2
	7810	9-Track 1600bpi Magnetic Tape, Data Management - Primary	2

	Components	Component ID	Logic Manuals
Tape 1	SAM	5741-SC1-D0	SY26-3788
Tape 1	Open/Close/EOV	5741-SC1-D1	SY26-3785
Tape 2	PAM	5741-SC1-D2	SY26-3788
Tape 2	Catalog	5741-SC1-D3	SY35-0003
Tape 2	DADSM	5741-SC1-D4	SY26-3787
Tape 2	OCR	5741-SC1-D5	GY21-0013
Tape 2	MICR	5741-SC1-D6	GY21-0012
Tape 2	DAM	5741-SC1-D7	SY26-3789
Tape 2	GAM	5741-SC1-G0	SY27-7240
Tape 2	Password Protect	5741-SC1-DC	SY26-3787
Tape 2	GSP	5741-SC1-07	SY27-7242

Distribution Group Number	Feature	Description	User Volume Required
4	7813	9-Track 800bpi Magnetic Tape, BTAM-ISAM	1
	7814	9-Track 1600bpi Magnetic Tape, BTAM-ISAM	1

Components	Component ID	Logic Manuals
BTAM	5741-SC1-20	SY27-7246
ISAM	5741-SC1-D8	SY26-3786

Figure 3-2. Optional Program Material (Part 2 of 4)

Distribution Group Number	Feature	Description	User Volume Required
5	7817	9-Track 800bpi Magnetic Tape, Problem Determination-Diagnostics	2
	7818	9-Track 1600bpi Magnetic Tape, Problem Determination-Diagnostics	2

	Components	Component ID	Logic Manuals
Tape 1	OBR/EREP/RDE	5741-SC1-CD	SY28-0636 & SY24-5156
Tape 1	RMS	5741-SC1-CE	SY27-7239
Tape 1	OLTEP	5741-SC1-06	SY28-0637
Tape 2	GTF	5741-SC1-11	
Tape 2	HMASPZAP	5741-SC1-12	
Tape 2	HMDPRDMP	5741-SC1-13	
Tape 2	HMBLIST	5741-SC1-14	SY28-0635
Tape 2	HMDSADMP	5741-SC1-15	
Tape 2	HMAPTFLE	5741-SC1-16	
Tape 2	IMCJOBQD	5741-SC1-17	
Tape 2	HMDPRDMP(Edit)	5741-SC1-18	

Figure 3-2. Optional Program Material (Part 3 of 4)

Distribution Group Number	Feature	Description	User Volume Required
6	7821	9-Track 800bpi Magnetic Tape, Control Program	3
	7822	9-Track 1600bpi Magnetic Tape, Control Program	3

	Components	Component ID	Logic Manuals
Tape 1	JEC	5741-SC1-B0	
	Input Stream Control	5741-SC1-B1	
	Output Stream Control	5741-SC1-B2	
	System Restart	5741-SC1-B3	
	Allocation	5741-SC1-B4	
	Q Manager	5741-SC1-B5	
	Initiator	5741-SC1-B6	
Tape 2	Termination	5741-SC1-B7	SY24-5161
	Commands	5741-SC1-B8	
	Interpreter	5741-SC1-B9	
	Restart Rdr/DSDR Processing	5741-SC1-BD	
	JES Compatibility Interface	5741-SC1-DB	
	System Log	5741-SC1-BE	
	WTP (Write to Programmer)	5741-SC1-BF	
	MSI (Master Scheduler Initiator)	5741-SC1-BG	
	DASD ERP	5741-SC1-CA	
	Unit Record ERP	5741-SC1-CB	SY24-5156
	Tape ERP/VES	5741-SC1-CC	
	Extended SVC Router	5741-SC1-CF	SY24-5155
	IPL	5741-SC1-C1	SY24-5160
	Overlay Supervisor	5741-SC1-C2	SY24-5155
	Supervisor	5741-SC1-C5	SY24-5155 & SY24-5161
	Extended Precision Floating Point Simulator	5741-SC1-CP	SY24-5155
	NIP	5741-SC1-C8	SY24-5160
Tape 3	FETCH	5741-SC1-C7	SY24-5155
	IOS	5741-SC1-C3	SY24-5156
	DIDOCS	5741-SC1-C4	
	JAM	5741-SC1-D9	SY24-5161
	Scheduler SMF	5741-SC1-00	
	Mapping Macros (Manual only)	5741-SC1-01	SY28-0605
	SMF	5741-SC1-02	SY24-5155
	Checkpoint/Restart	5741-SC1-09	SY24-5159
	CRJE	5741-SC1-0A	GY30-2011
	RES	5741-SC1-BB	SY28-6849
	RES Account Facility	5741-SC1-BC	SY28-0660

Figure 3-2. Optional Program Material (Part 4 of 4)

Microfiche Order Numbers

Component	Component ID	Microfiche Order Nos.
System Assembler	5741-SC1-03	SJD2-2034
Linkage Editor	5741-SC1-04	SJD2-2068
Loader	5741-SC1-05	SJD2-2069
PVTMACS		
IBCDMPRS	5741-SC1-I0	SJD2-2077
IBCDASDI	5741-SC1-I1	SJD2-2078
ICAPRTBL	5741-SC1-I2	SJD2-2079
IEHDASDR	5741-SC1-U0	SJD2-2080
IEHIOSUP	5741-SC1-U1	SJD2-2081
IEHLIST	5741-SC1-U2	SJD2-2048
IEHPROGM	5741-SC1-U3	SJD2-2096
IEHMOVE	5741-SC1-UC	SJD2-2092
IEHINITT	5741-SC1-UD	SJD2-2097
IFHSTATR	5741-SC1-UE	SJD2-2098
IEHATLAS	5741-SC1-UF	SJD2-2082
IEBTCRIN	5741-SC1-UG	SJD2-2053
IEBCOPY	5741-SC1-U6	SJD2-2085
IEBGENER	5741-SC1-U7	SJD2-2086
IEBUPDTE	5741-SC1-U8	SJD2-2087
IEBPTPCH	5741-SC1-UA	SJD2-2088
IEBEDIT	5741-SC1-U9	SJD2-2102
IEBCOMPR	5741-SC1-UK	SJD2-2089
IEBISAM	5741-SC1-UH	SJD2-2090
IEBDG	5741-SC1-UJ	SJD2-2091
SAM	5741-SC1-D0	SJD2-2057
Open/Close/EOV	5741-SC1-D1	SJD2-2058
PAM	5741-SC1-D2	SJD2-2059
Catalog	5741-SC1-D3	SJD2-2099
DADSM	5741-SC1-D4	SJD2-2060
OCR	5741-SC1-D5	SJD2-2051
MICR	5741-SC1-D6	SJD2-2061
DAM	5741-SC1-D7	SJD2-2062
GAM	5741-SC1-G0	SJD2-2031
Password Protect	5741-SC1-DC	SJD2-2100
GSP	5741-SC1-07	SJD2-2032
BTAM	5741-SC1-20	SJD2-2049
ISAM	5741SC1-D8	SJD2-2063
OBR/EREP/RDE	5741-SC1-CD	SJD2-2038
RMS	5741-SC1-CE	SJD2-2033
OLTEP	5741-SC1-06	SJD2-2046
GFT	5741-SC1-11	SJD2-2041
HMASPZAP	5741-SC1-12	SJD2-2042
HMDPRDMP	5741-SC1-13	SJD2-2043
HMBLIST	5741-SC1-14	SJD2-2076
HMDSADMP	5741-SC1-15	SJD2-2044
HMAPTFLE	5741-SC1-16	SJD2-2045
IMCJOBQD	5741-SC1-17	SJD2-2028
JECS	5741-SC1-B0	SJD2-2014

Component	Component ID	Microfiche Order Nos.
Input Stream Control	5741-SC1-B1	SJD2-2015
Output Stream Control	5741-SC1-B2	SJD2-2016
System Restart	5741-SC1-B3	SJD2-2017
Allocation	5741-SC1-B4	SJD22018
Q Manager	5741-SC1-B5	SJD2-2019
Initiator	5741-SC1-B6	SJD2-2020
Termination	5741-SC1-B7	SJD2-2021
Commands	5741-SC1-B8	SJD2-2022
Interpreter	5741-SC1-B9	SJD2-2023
Restart Rdr/DSDR Processing	5741-SC1-BD	SJD2-2024
JES Compatibility Interface	5741-SC1-DB	SJD2-2074
System Log	5741-SC1-BE	SJD2-2025
WTP (Write to Programmer)	5741-SC1-BF	SJD2-2026
MSI (Master Scheduler Initiator)	5741-SC1-BG	SJD2-2027
DASD ERP	5741-SC1-CA	SJD2-2067
Unit Record ERP	5741-SC1-CB	SJD2-2110
Tape ERP/VES	5741-SC1-CC	SJD2-2101
Extended SVC Router	5741-SC1-CF	SJD2-2047
IPL	5741-SC1-C1	SJD2-2000
Overlay Supervisor	5741-SC1-C2	SJD2-2056
Supervisor	5741-SC1-C5	SJD2-2002
Fetch	5741-SC1-C7	SJD2-2055
IOS	5741-SC1-C3	SJD2-2001
DIDOCS	5741-SC1-C4	SJD2-2030
JAM	5741-SC1-D9	SJD2-2064
Scheduler	5741-SC1-00	SJD2-2009
Mapping Macros (Manual only)	5741-SC1-01	
SMF	5741-SC1-02	SJD2-2094
Checkpoint/Restart	5741-SC1-09	SJD2-2054
CRJE	5741-SC1-0A	SJD2-2084
RES	5741-SC1-BB	SJD2-2105
HMDPRDMP	5741-SC1-18	SJD2-2106
Ext. Precision F/P Simulator	5741-SC1-CP	SJD2-2110
RES Acct. Facility	5741-SC1-BC	SJD2-2107
3505/3525 RDR/PCH	5741-SC1-DD	SJD2-2108
NIP	5741-SC1-C8	SJD2-2111

Part 4: Maintenance Activity

Part 4 contains a description of the system maintenance activity included in Release 2, divided into three sections:

Section 1: APAR Lists

Section 2: Program Symptom Index for Corrected Items

Section 3: Program Temporary Fixes Resolved.

Information concerning APARs corrected and PTFs generated as a result of post-release maintenance activity can be found in the Early Warning System (EWS) microfiche, which is available through the System Library Subscription Service (SLSS). For ordering information, see your IBM representative.

Part 4, Section 1: APAR List

This section lists the APARS fixed in Release 2 of VS1. The three groups of APARS are: VS1 APARS - OX prefix, VS2 APARS - OY prefix, and OS APARS - OS prefix. The VS2 and OS APARS listed are those determined applicable and integrated into VS1 before conversion OX numbers were available.

A detailed problem description of each APAR is included, following each list. Each group is in sequence by APAR number.

OX00001 OX00002 OX00004 OX00005 OX00007 OX00008 OX00009
OX00010 OX00012 OX00013 OX00014 OX00015 OX00020 OX00021
OX00022 OX00023 OX00027 OX00029 OX00030 OX00031 OX00032
OX00034 OX00035 OX00042 OX00046 OX00047 OX00048 OX00049
OX00051 OX00056 OX00062 OX00063 OX00065 OX00067 OX00073
OX00088 OX00093 OX00094 OX00110 OX00121 OX00123 OX00125
OX00127 OX00130 OX00132 OX00140 OX00141 OX00145 OX00147
OX00150 OX00151 OX00154 OX00156 OX00208 OX00211 OX00212
OX00216 OX00217 OX00218 OX00219 OX00220 OX00221 OX00229
OX00231 OX00232 OX00233 OX00236 OX00237 OX00238 OX00239
OX00241 OX00243 OX00248 OX00251 OX00252 OX00253 OX00255
OX00259 OX00262 OX00264 OX00270 OX00272 OX00273 OX00287
OX00294 OX00296 OX00297 OX00299 OX00314 OX00316 OX00317
OX00318 OX00319 OX00320 OX00337 OX00338 OX00339 OX00342
OX00359 OX00360 OX00363 OX00364 OX00367 OX00377 OX00392
OX00394 OX00395 OX00396 OX00397 OX00398 OX00399 OX00400
OX00431 OX00432 OX00433 OX00435 OX00440 OX00442 OX00447
OX00451 OX00474 OX00497 OX00500 OX00547 OX00548 OX00614
OX00801 OX00803 OX00804 OX00805 OX00810 OX00814 OX00817
OX00818 OX00819

TOTAL NUMBER OF APARS INCLUDED - 135

NOTE:
IN ORDER TO MAKE THE LIST OF APARS AS COMPLETE AS POSSIBLE, THESE 20 APARS WERE ADDED OUT OF SEQUENCE AND ARE LOCATED AT THE END OF THE PROBLEM DESCRIPTION LIST.

OX00213 OX00214 OX00215 OX00284 OX00285 OX00306
OX00321 OX00322 OX00323 OX00324 OX00340 OX00341
OX00441 OX00552 OX00529 OX00589 OX00667 OX00668
OX00683 OX00737

*
OX00001 5741SC1D8 MODULE - IGG0202I

ABEND 322 LOOPING IN MODULE IGG019GA BECAUSE RE 4 IS ZEROED.

*
OX00002 5741SC1CH MODULE - IEAPGSWR IEAPGSPM IEATSAR

UNCONDITIONAL PAGE MEASUREMENT IS REQUIRED TO SOLVE FOLLOWING TWO PROBLEMS:
1. LOOP IN PAGE SUPERVISOR WHEN AVAILABLE PAGE COUNT IS ZERO, SHORT TERM FIX-COUNT IS ZERO, AND V=R PCB OUTSTANDING.
2. NO PAGE MEASUREMENT OCCURS WHEN ONLY ONE PARTITION IS ACTIVE.

*
OX00004 5741SC1BF MODULE - IEFWTP00

IEFWTP00 LOCKS UP JECS DUE TO INCORRECT PROCESSING OF SPOOL ERRORS.

*
OX00005 5741SC1B2 MODULE - IEFVMA IEFSD080 IEFSD082 IEFSD089 IEFSD083 IEFSD079 IEFOSC07 IEFOSCWK

ABEND513- USER WRITERS TO TAPE DEIVED.
ABEND 513- USER WRITTEN SEPARATOR ROUTINES TO TAPE.

*
OX00007 5741SC1C5 MODULE - IEAATA

DEACTIVATION WAS CHECKING IF A TASK WAS IN TERMINATION AND IF SO, SETTING IT NON-DISPATCHABLE. THIS WAS DONE BEFORE THE SYSTEM LOCK SETTING WAS CHECKED. IF A TASK WAS SET NON-DISPATCHABLE AND THE SYSTEM LOCK WAS SET, THE SYSTEM WENT INTO A WAIT STATE.

*
OX00008 5741SC1DB MODULE - IGG0199W IGG0198L IGG0201W IGG019DJ

PL/1 COMPILERS PROGRAM CHECK DURING CLOSE OF SPOOLED DATA SETS. SEE ALSO VS1-6377 PTM

*
OX00009 5741SC1D0 MODULE - IGG0191C

0CX WHEN IGG019AV REMOVED FROM RAM LIST.

*
OX00010 5741SC1D0 MODULE - IGG0196W

IGG0196W SHOULD ISSUE GETMAIN FOR 3211 ERP WORKAREA.

*
OX00012 5741SC1D9 MODULE - IGG019DG

IGG019DG GOES INTO WAIT STATE WHEN I/O ERROR OCCURS. IT TRIES TO BRANCH TO THE SYNAD ROUTINE WITHOUT LOADING REG 15, BRANCHES INSTEAD TO WAIT ROUTINE.

*
OX00013 5741SC1D0 MODULE - SGIEC0UC

THE H11 IMAGE IN SYSGEN MACRO SGIEC0UC IS BAD AT OFFSET X'448' IT SHOULD HAVE A X'C0'.

*
OX00014 5741SC1D7 MODULE - IGGR19KM

IGGR19KM CALCULATE OVERHEAD INCORRECTLY FOR MIDDLE SEGMENT OF RECORD WHICH SPANS 3 TRACKS ON 3330.

*
OX00015 5741SC1B8 MODULE - SGIEE0VR

IN SYSTEMS WITHOUT APR IT WOULD BE GOOD TO CHANGE MESSAGE IEE309I TO STATE 'APR NOT SUPPORTED' INSTEAD OF 'UNIDENTIFIABLE KEYWORD'.

*
OX00020 5741SC1D8 MODULE - IGG0192J IGG0192R

806 ABEND WHEN OPENING ISAM DATA SET. LOAD PARAMETER LIST OVERLAID WHEN TRANSIENT AREA REFRESHED

*
OX00021 5741SC1D8 MODULE - IGG019HA IGG019GG IGG019JH IGG019JG

WHEN AN ISAM RESIDE ON RPS DEVICES SECTORS COULD BE MISSED CAUSING A SLIGHT DEGREDATION IN PERFORMANCE OR ABEND 001

*
OX00022 5741SC1D1 MODULE - IFG0200V

SYSTEM ENTERED PGM CHK LOOP, 0C5 (WHEN USING SMF) AFTER GIVING START INIT COMMAND. THE NUCLEUS LOAD WAS GENERATED WITHOUT FLOATING POINT.

*
OX00023 5741SC1D1 MODULE - IFG0202A IFG0202C IFG0552R
IFG0553P IFG0554L

INPUT USER LABEL PROCESSING IS NOT PERFORMED CORRECTLY
BY EOV OR CLOSE. EOV WILL TAKE THE USER TRAILER EXIT
EVEN THOUGH DEFFERED PROCESSING IS SPECIFIED FOR AN
EOF CONDITION. CLOSE AND EOV SET THE EOF INDICATOR
INCORRECTLY IN THE USER LABEL PARAMETER LIST.

*
OX00027 5741SC104 MODULE - HEWLFESD

LINKAGE EDITOR NOT RESOLVING AN RLD FOR A BLANK
COMMON AREA PROPERLY.

*
OX00029 5741SC104 MODULE - HENLFOUT HEWLFRAT

MSG IEW0294 INCORRECTLY ISSUED, LINK EDIT INCORRECTLY
TERMINATED.

*
OX00030 5741SC1B6 MODULE - IEFSD598

P/P ISSUES RESERVE MACRO AND IS SUBSEQUENTLY
CANCELLED. THE SYSTEM FAILS TO PURGE OUTSTANDING
ENQS ON DASD.

*
OX00031 5741SC1B6 MODULE - IEFSD162

0C4 IN IEFALRET (ENTRY POINT FROM ALLOCATION INTO
IEFSD162) TEST CASE WAS WAITING FOR VOLUMES; CANCEL
JOBNAME, DUMP WAS ENTERED; CAUSED NO TIOT TO BE BUILT.

*
OX00032 5741SC1B3 MODULE - IEFSD301 IEFSD304 IEFSD305
IEFVSDRD

ABEND 80A DURING WARMSTART (LOAD MODULE IEFSD304).
MORE THAN FOUR (4) JOBS ACTIVE WHICH WARMSTART IS TO
HANDLE.

*
OX00034 5741SC1B3 MODULE - IEFSD309

WHEN THE HARDCOPY LOG IS PRINTED ON THE SYSTEM
PRINTER, IEF314I SYSIO APPEARS AS THE SECOND TO
LAST ENTRY. AFTER SYSTEM RESTART.

*
OX00035 5741SC1C3 MODULE - IECXCP IECIOSB IECINT
IECIOS IGE0025E

WAIT STATE AFTER INTERVENTION REQUIRED OR
MOUNT MESSAGE WHEN SHORT TERM FIX IS NON-ZERO.

*
OX00042 5741SC1U0 MODULE - IBCDASDI IBCDMPRS

PTF OF 360S-00194 HAS BEEN REBUILT TO SUPPORT VS1

*
OX00046 5741SC1C3 MODULE - IECXCP IECIOSB

ASSEMBLY ERRORS IN IOS.

*
OX00047 5741SC1C3 MODULE - IGFVMCF6

SYS WAIT AFTER SUCCESSFUL RECOVERY FROM MACH.
CHK.

*
OX00048 5741SC1CD MODULE - IFCEXXXA IFCSXXXA

IN/ INCORRECT EREP SENSE DATA PRINTOUT & CORRELATION
NUMBER FOR 3211.

*
OX00049 5741SC103 MODULE - IFNX3N

THE TYPE ATTRIBUTE OF A POSITIONAL PARAMETER OF AN
INNER MACRO IS U WHERE IT SHOULD BE O FOR OMITTED
PARAMETER

*
OX00051 5741SC1C5 MODULE - IEAAPS

A SUBTASK, USING A RESEURCE OWNED BY ANOTHER SUBTASK
IS DETACHED BEFORE THE I/O HE STARTED WAS COMPLETED.
THERE WAS A NEED FOR AN ASSYC EXIT BUT IT COULD NOT BE
SET UP SINCE ABEND SETS THE BIT IN THE TCB SAYING NO
IRB'S ARE TO BE SCHEDULED.

*
OX00056 5741SC1C5 MODULE - IEA0TI03 IEA0TI04

THE MIDNIGHT TQE WAS BEING UPDATED EARLY CAUSING
A 0C9 IF THE TQE WAS REFERENCED BEFORE MIDNIGHT HAD
OCCURRED.

*
OX00062 5741SC1B6 MODULE - IEFSD161

THE JOB RUNS IN P1 AND TAKES A CHKPT. A DEFERRED RESTART IS DONE AND THE JOB IS PICKED UP BY INIT IN P0, WHICH TRANSFERS IT TO P1. P1 GETS AN I/O ERROR IN SWADS. SWADS ARE ON 2314 FOR P0 AND 3330 FOR P1.

*
OX00063 5741SC1B1 MODULE - IEFMSGJP

IEFMSGJP - IEF863I OVERLAYS 2ND & 3RD LINES OF MESSAGE.

*
OX00065 5741SC1BD MODULE - IEFDSRP IEFVMLS1 IEFSD518

MODULE IGC0T0SB IS ISSUING A REPOS MACRO FOR A DSO DATA SET FOLLOWING A DEFERRED RESTART CAUSING JES TO GET A 60A ABEND.

*
OX00067 5741SC1B6 MODULE - IEFSD515

A FREEMAIN IS DONE BETWEEN AN EXCLUSIVE ENQ ON Q5 (RESOURCE IS UCB ADDRESSES) AND THE DEQ. AN INVALID MOUNT COMMAND CAUSED THE FREEMAIN TO 80A THUS THE DEQ WAS NOT DONE AND AN ENQ/DEQ LOCKOUT FOLLOWED.

*
OX00073 5741SC106 MODULE - IFDOLT30

DURING A DYNAMIC/CATASTROPHIC/FIRST ERROR COMMUNICATION INTERVAL WHILE OLT IS RUNNING, IF NEW DEV OR TEST IS SELECTED, OLTEP RESPONDS WITH MSG IFD106I EVEN THOUGH CORRECT IFD105D REPLY WAS MADE.

*
OX00088 5741SC1D7 MODULE - IGG019LC

WHEN READING A BDAM DATA SET USING EXTENDED SEARCH, AN INCORRECT FEEDBACK ADDRESS WILL BE RETURNED IF THE RECORD IS FOUND ON A DIFFERENT EXTENT FROM WHERE THE SEARCH BEGAN.

*
OX00093 5741SC1D7 MODULE - IGG019KJ IGG019KL

WHEN USING DYNAMIC BUFFERING AND KEY ADDRESS CODED 'S' IN RCAD MACRO, THE KEY IS NOT PLACED IN THE CORRECT LOCATION IN THE DATA AREA.

*
OX00094 5741SC1D9 MODULE - IGG0196U

THE 2540 PUNCH ERP DOES NOT HANDLE JAM BUFFERS CORRECTLY WHEN A PUNCH CHECK OCCURS.

*
OX00110 5741SC1I0 MODULE - IBCDMPRS

1ST REEL OF A 2 VOL DUMP DOESN'T UNLOAD AT EOV. SYSTEM GOES INTO LOOP, IF THE PGM HAD PICKEDUP AN I/O INTERRUPT WHILE HANDLING THE ERP TO REWRITE THE LAST RECORD PAST THE TAPE MARK.

*
OX00121 5741SC1D1 MODULE - IFG0195P

ABEND213-10 MAY OCCUR WHEN OPENING BDAM OR ISAM DATA SET. I/O ERROR OCCURS BECAUSE WRONG MBBCCHHR OF FMT 3 DSCB IS PUT IN IOB SEEK FIELD IN IFG0195P BECAUSE POINTER TO FMT 1 DSCB MAY BE INVALID. KEYWORDS: ABEND 213, BDAM, ISAM, MULTI VOLUME, IFG0195P, I/O ERROR, FORMAT 3 DSCB.

*
OX00123 5741SC1D1 MODULE - IFG0195A IFG0195K IFG0196W
IFG0196W

BFALN IS BEING MERGED FROM RELEASE OS 17 AND OS 18 INPUT MAGNETIC TAPES (HDR2 LABEL,FL2CNTRL+1 FIELD) INTO THE DCB. THIS IS NOT DOCUMENTED AND CAN CAUSE INCORRECT LENGTH FOR FREEPOOL. REFER OS APAR 48658,AS16186.

*
OX00125 5741SC1D1 MODULE - IFG0552V

WHEN A MULTI-VOLUME, MULTI-UNIT DATA SET IS OPENED FOR RDBACK WITH A REREAD OPTION, AT EOV IFG0552V FAILS TO INCREMENT THE VCB FILE SEQUENCE COUNT AND NUMBER WHEN POSITIONING TO THE END OF THE VOLUME. IF THE DATA SET IS SUBSEQUENTLY CLOSED AND OPENED, AND THE TAPE VOLUME IS NOT REWOUND OR UNLOADED, A 613 ABEND MAY OCCUR.

*
OX00127 5741SC1D1 MODULE - IECPDINI IFG0190P

OPEN ABEND 713-08 ISSUES MESSAGE IEC147I INSTEAD OF IEC148I AS STATED IN SRLS'S

*
OX00130 5741SC1D1 MODULE - IECEQU11 IECPPINI IFG0199B
IFG0232D IFG0232Z IFG0230P

TCLOSE (CLOSE,TYPE=T) FAILS TO REPOSITION NON-PS DATA SETS ON DIRECT ACCESS DEVICES. TYPICAL SYMPTOMS INCLUDE INCORRECT INPUT OR OUTPUT, PROGRAM CHECKS IN THE F ASSEMBLER WHEN READING IN A MEMBER OF PO DATA SET, AND FAILURE TO TCLOSE WHEN PROCESSING A VTOC. REFER TO OS48558,AS16583.

*
OX00132 5741SC104 MODULE - #EWLFBTP

LINKAGE EDITOR PRINTS LINE CONTAINING EXTRANEOUS CHARACTERS

*
OX00140 5741SC100 MODULE - IEFSMFAT IEFSMFLK

A GETMAIN FROM FIXED PQA EXCEEDED THE MAXIMUM ALLOWABLE OF 2K.

*
OX00141 5741SC1C5 MODULE - IEAATC

A DISABLED PAGE FAULT OCCURRED AFTER THE TRANSIENT AREA LOADING TASK'S RESUME PSW WAS SET, BUT BEFORE THE TRANSIENT LOADING TASK EXITED TO THE DISPATCHER. THUS, INVALIDATING THE RESUME PSW THAT HAD PREVIOUSLY BEEN SET UP.

*
OX00145 5741SC106 MODULE - IFDOLT48

T1403A-I TESTS WERE REQUESTED TO RUN ON 00E. ON THE CONSOLE MSG. IFD158I APPEARED ONLY FOR SECTIONS A,C,G &I. NO ERROR MESSAGES APPEARED FOR SECTIONS B.D.E.F & H. HOWEVER, ON THE PRINTER ERROR MESSAGES 'IFD100I-CANNOT RUN ON UNIT 00E' WERE OUTPUT. THE IFD100I MESSAGES MUST BE ROUTED TO CONSOLE.

*
OX00147 5741SC106 MODULE - IFDOLT05 IFDOLT06

ORIGINALLY IFDOLT05 HAS CE/DE SEPARATION INVOKED; THIS CAUSED SPLIT CE/DE TO BE POSTED INTO THE OLT TECB ERRONEOUSLY. THE APAR CORRECTED THIS PROBLEM BY INSURING CE/DE WAS NOT ACTIVE. IFDOLT06 WAS CHANGED FOR THIS SUPPORT. WITH THESE FIXES, P3116 OLTS LOST 'SENSE' DATA.

*
OX00150 5741SC1C8 MODULE - SGIEAGSV IEAANIP IEABLD00

STANDARD RESIDENT LISTS DID NOT PROVIDE OPTIMUM PERFORMANCE.

*
OX00151 5741SC1B1 MODULE - IEFVMC

IEFVMC - STAE EXIT CLOSES ACB BEFORE DAR DUMP. THIS MAKES DAR DUMP ALMOST USELESS FOR JAM-RDR INTERFACE PROBLEMS.

*
OX00154 5741SC1D0 MODULE - IGGR19BH

A WRONG LENGTH RECORD CONDITION HAS BEEN RAISED BECAUSE THE SILT BIT IS NOT SET ON IN THE WRITE/UPDATE CCW FOR RECFM=U.

*
OX00156 5741SC1D0 MODULE - IGG019AR

DURING EOV, THE LAST RECORD OF THE FIRST VOLUME IS READ TWICE. TWO READ IOB'S CONTAIN THE SAME SEARCH ARGUMENT.

*
OX00208 5741SC113 MODULE - HMDPRLOD

SYS1.DUMP CONTAINED BAD DATA, CAUSES 0C4 IN HMDPRLOD.

*
OX00211 5741SC113 MODULE - HMDPRPCR

IN AN MFT SYSTEM WHEN 'PRINT CURRENT' IS SPECIFIED FOR PRINT DUMP, INCORRECT PROBLEM/PROGRAM BOUNDARIES ARE USED FOR THE ABENDING SUBTASK. CORRECT BOUNDARIES SHOULD BE OBTAINED FROM THE JSTCB'S MSS POINTER (THE SUBTASK'S MSS POINTER IS NOT VALID).

*
OX00212 5741SC116 MODULE - HMAPTF01

HMAPTFLE GENERATES INCORRECT SS1 FOR 10TH MODULE IN A PTF.

*
OX00216 5741SC103 MODULE - IFNX5A

ONLY APLHANUMERIC CHARACTERS ARE ALLOWED IN CSECT IDR

*
OX00217 5741SC103 MODULE - IFNX1A

ATTRIBUTE ERROR IN INNER MACROS CALLED WITH &SYSLIST.

*
OX00218 5741SC103 MODULE - IFNX3N

NAME ERROR IN AGO OR AIF STMT ARE FLAGGED
BUT NOT LISTED.

*
OX00219 5741SC103 MODULE - IFNX5A

THE COLUMN POINTER IN MSG IFO185 IS INVALID.

*
OX00220 5741SC103 MODULE - IFNX5A

STMT FLAGGED WITH IFO237 FOR NO APPARENT REASON.

*
OX00221 5741SC103 MODULE - IFNX5D

A DS OR DC WITHOUT AN OPERAND GIVES ERROR MESSAGE
IFO178, WHICH IS INCORRECT.

*
OX00229 5741SC1C3 MODULE - IECIPR IECIPR12 IECIPR1A
IECIPR1B

A TEST FOR AN SIRB IN PURGE DID NOT CONSIDER
ALL POSSIBLE BIT SETTINGS. AN SURB WAS MISTAKENED
FOR AN SIRB.

*
OX00231 5741SC1C5 MODULE - SNAP

ANY MACRO CALL OF THE SNAP MACRO SPECIFYING ID=
(REGISTER 10-15) WILL BE FLAGGED AND THE ID SPECIFI-
CATION WILL NOT BE ACCEPTED.

*
OX00232 5741SC1B4 MODULE - IEFXT00D IEFXT002 IEFWD000

PROBLEM PROGRAM ABENDS WITH 001 BECAUSE TAPE DATA
SET LOST TO JOB IN ANOTHER PARTITION.

*
OX00233 5741SC1C5 MODULE - IEAAMS

WHEN PAGES OF SQA BECOME ENTIRELY FREE AS A RESULT OF A
BRANCH ENTRY FREEMAIN THOSE PAGES ARE NEVER RELEASED TO
THE SYSTEM.

*
OX00236 5741SC1C5 MODULE - IEAAIH

SYSTEM LOOPS IN IOS AND I/O FLIH. AN EXTERNAL INTERRUPT
HAS OCCURRED CAUSING THE STATUS TO BE SAVED. THE EXT FLIH
EXITS THROUGH IOS WHICH CHECKS FOR AN I/O INTER. IF THERE
IS ONE THE STATUS IS SAVED DESTOYING THE EXTERNAL INTERRUPT
STATUS.

*
OX00237 5741SC100 MODULE - IEFSMFAT

IEASMFEX IS RUNNING WITH PAGE EXCEPTION NOT ALLOWED.
HE ADDRESSES TIOT (WHICH IS NOT GUARANTEED TO BE FIXED)
CAUSING A 903 WAIT STATE.

*
OX00238 5741SC1B6 MODULE - IEFSD598

SCHEDULER ENQ/DEQ PURGE FUNCTION NOT RELEASEING
A DEVICE ENQUEUED ON VIA THE 'RESERVE' MACRO. THE
OP CODE IN THE CCW IS INCORRECT. IT IS NOW X'03'
(NOP); IT SHOULD BE X'94' (RELEASE).

*
OX00239 5741SC1C5 MODULE - IEAPGEX

USER'S REGISTERS ARE INVALID UPON RECEIVING CONTROL AT
A SPIE EXIT FOR PROTECTION EXCEPTIONS.

*
OX00241 5741SC1C5 MODULE - IEAATA

THE IQE BUILT FOR ASSYC EXIT FROM A DAUGHTER TASK
IS NOT FREED UNTIL THE MOTHER TASK ENDS. FOR A SYSTEM
TASK SUCH AS JEPS WHERE THE MOTHER TASK NEVER ENDS, THE
IQE'S ARE NEVER FREED CAUSING A FRAGMENTATION OF PQA
CORE.

*
OX00243 5741SC1C5 MODULE - IEAATC

LOOP IN DAR AND ABEND RESULTING FROM THERE
BEING NOT ENOUGH CORE FOR ABEND TO XCTL TO
SCHEDULER TERMINATION MODULE - GO.

*
OX00248 5741SC1B2 MODULE - IEFSD089

USER WRITER LOOP, TCB OVERLAY - WHEN RECFM=U INTERMITTENT. PROBLEM ACTUALLY CAUSED BY USER WRITER PASSING A LRECL OF X'78EC' TO QSAM, CAUSING A MOVE OF DATA & CORE OVER PQA (TCB'S & RB'S). USER WRITER NOT PREPARED FOR IMMEDIATE EOF ON 1ST GET. TO AVOID THIS, WRITER WHOULD NOT ATTACH USER WRITER IF DATA SET IS EMPTY (EOF ON FIRST RECORD).

*
OX00251 5741SC1B7 MODULE - IEFZGJB1

TAPE DRIVER REMAINS LOADED AND READY AFTER JOB IS CANCELLED. UNLOAD COMMAND DOES NOT UNLOAD.

*
OX00252 5741SC1B8 MODULE - IEFVHA

WHEN PRIVATE PROCLIBS HAVE NOT BEEN SPECIFIED, A PROC WITH AN OVERRIDING DD * CAUSES A NULL STATEMENT TO BE GENERATED, AND ALL OTHER JOB STEPS TO BE FLUSHED.

*
OX00253 5741SC1C5 MODULE - IEAAIH

IN THE SVC FLIH, IF THE SUPERVISOR LOCK IS SET, THE ADDRESS IN SVC OLD PSW IS BACKED-UP BY TWO BYTES SO THE SVC CAN BE REISSUED WHEN THE LOCK IS RESET. IF THE SVC WAS THE RETULS OF AN EXECUTE INSTRUCTION, THE ADDRESS WOULD NEED TO BE BACKED UP FOUR BYTES.

*
OX00255 5741SC1B7 MODULE - IEFZGJB1

TAPES REMAIN ALLOCATED IF PASS OR RETAIN SPECIFIED - 'SRTEJBNR' (UCBJBNR IN UCB) IS NOT ZERO'ED AT JOB TERMINATION.

*
OX00259 5741SC1D1 MODULE - IFG0552P

WHEN IFG0552P ADDS THE DSNAME TO A MESSAGE (WITH MN DSNAME ACTIVE) WHICH IS BUILT IN THE EOV WORKAREA JUST BEFORE THE JFCB IF THE MESSAGE IS A CERTAIN LENGTH. FOR EXAMPLE, A RETAIN OR KEEP MESSAGE AT EOV WITH A TOTAL OF 14 TO 16 CHARACTERS IN THE JOB NAME PLUS STEP NAME.

*
OX00262 5741SC1C5 MODULE - IEAAIH

THE PROGRAM CHECK FLIH USES R9 TO CHECK THE STATUS OF A PAGE ON WHICH A SEGMENT TRANSLATION EXCEPTION WAS TAKEN. R9 IS NEVER RESTORED TO THE ORIGINAL VLAUE AND WOULD BE BAD ON ENTRY TO A SPIE EXIT ROUTINE.

*
OX00264 5741SC1B9 MODULE - IEFVHF

A DD* OR DD DATA OVERRIDE OF A CONTINUED JCL STMT IN A PROC DOES NOT RECOGNIZE THE CONTINUATION PUNCH AND OVERRIDE THE CONTINUED STATEMENT, CAUSING MSG IEF621I.

*
OX00270 5741SC1C5 MODULE - IEAATC

SPACE FOR RB ON JPAQ IS BEING GOTTEN FROM WRONG SUBPOOL LPRB IS FREED AT SUBTASK TERMINATION AND UNPREDICTABLE RESULTS ENSUE.

*
OX00272 5741SC1B2 MODULE - IEFOXC07

ABEND 13E WHEN USER WRITER CANCELLED (C 00E). 13E DUE TO DETACH BEFORE TASK COMPLETES.

*
OX00273 5741SC1B8 MODULE - IEE1103D

IF A 1403/UCS OR 3211 IS USED UNDER OS/VS1 AND THEN VARIED OFFLINE, THEN ONLINE. THE MESSAGE TO ASK OPERATOR TO SPECIFY UCS AND FCB IMABES IS NOT ISSUED AND BUFFERS ARE NOT RELOADED.

*
OX00287 5741SC1C3 MODULE - IECIPR

0C5 PROGRAM CHECK OCCURS DURING CLOSE WHILE RUNNING IEBUPDTE.

*
OX00294 5741SC1U0 MODULE - IGC0208B

SVC 91 WAS NOT BEING ISSUED BY IEHDASDR BEFORE A UNIT WAS MARKED AS 'NOT READY'.

*
OX00296 5741SC1S1 MODULE - SGASMPAK

B37 ABEND DURING ASSEMBLY OF IOS IEAASU00

*
OX00297 5741SC1C3 MODULE - IECINT

APPLICATIONS USING BDAM UNDER VS1 GET SEEK CHECKS, JOBS RAN V=R WITH SAME ERROR. JOBS WORK ON OS REL. 21.0.

*
OX00299 5741SC1D1 MODULE - IFG0200Y

106 ABEND FOR MODULE IGG020P1
WHEN HAVE MULTIPLE CLOSE WITH MORE THAN
ONE DCB SPECIFYING
PARTIAL RELEASE.

*
OX00314 5741SC1G0 MODULE - IGG0193L

ABEND 0C5 IN GRAPHICS OPEN MODULE BECAUSE OPEN FAILS TO TEST THE VALIDITY OF UCB POINTER IN DEB.

*
OX00316 5741SC1G0 MODULE - IFFCAN02

6THE 2250 BUFFER DUMP DOES NOT TRANSLATE THE HEX CHARACTERS X'58' AND X'59' INTO PERIODS X'4B'.

*
OX00317 5741SC1G0 MODULE - IGG019OE

GRAPHIC ATTENTION ROUTINE ROUTINE PLACES INCORRECT UNIT INDEX VALUE IN THE COMAREA WHEN ONE 2260 USED.

*
OX00318 5741SC107 MODULE - IFFAGA07

INCORRECT BUFFER ADDRESS RESOLUTIONS AFTER CALL TO ORGEN WWITH GENCODE=3. GNOP ADDRESS AT THE BEGINNING OF ENTITY IS INVALID, MAKING SUCH FUNCTIONS AS INCL/OMIT IMPOSSIBLE.

*
OX00319 5741SC107 MODULE - IFFAHA13

UPDATE DOESN'T OFFSET BUFFER START ADDRESS FOR SET MODE WHEN 128-BYTE GDS IS SPECIFIED. THIS ERROR TRIGGERS IN CORRECT BUFFER ADDRESS RESOLUTIONS BY DATA STORE AND CAUSES SET MODE AT THE BEGINNING OF BUFFER SEGMENT TO BE OVERLAID. RESULTS CAN BE UNPREDICTABLE (I.E., UNABLE TO OMIT AFTER CALL TO PTEXT WITH UPDATE).

*
OX00320 5741SC107 MODULE - IFFAGA07 IFFAHA13

A CALL TO ORGEN IN UPDATE MODE OVERLAYS GTRU AT END OF ENTITY CAUSING INCORRECT DISPLAYS.

*
OX00337 5741SC10A MODULE - IHKPUT IHKRER

CRJE WAS NOT AWARE OF THE FACT THAT WHEN
THE OPERATOR CANCELS A JOB IN RESPONSE TO ALLOCATION
REQUESTS THE SYSTEM DOES NOT UPDATE THE DERDSBCT
FIELD FOR EMPTY DSB'S.

*
OX00338 5741SC10A MODULE - IHKERR

IHKERR TURNED OFF TYBPPTFL FLAG FOR
AAIOERR WHICH CAUSED WRONG BRANCH TO
BE TAKEN. THUS USER LOGOFF EXITS WERE NEVER TAKEN.

*
OX00339 5741SC10A MODULE - IHKSTP

ON A RETURN CODE OF 4 CRJE, INSTEAD OF TAKING THE PROPER BRANCH ISSUES ANOTHER HALTIO FROM WHICH IT HAS ALREADY COME, THUS CAUSING A LOOP.

*
OX00342 5741SC10A MODULE - IHKLAD

WHEN ATTN IS HIT WHILE MESSAGE IHK301 IS PRINTING OUT, THE USER IS ABLE TO LOGON.

*
OX00359 5741SC1D1 MODULE - IFG0196M

OPEN MODULE IFG0196M DOES NOT SPECIFICALLY
TEST RECFM=D WHEN NONE WAS SPECIFIED AND
ASSUMES RECFM OF D.

*
OX00360 5741SC1D8 MODULE - IGG0195G

ABEND 03E-OUT OF SPACE WITH ONE
RECORD ON SECOND TO LAST PRIME TRACK
WHEN OPENING DATA SET FOR RESUME
LOAD.

*
OX00363 5741SC1D7 MODULE - IGG0193G

AN APPENDAGE WHICH CROSSES
A PAGE BOUNDARY DID NOT HAVE THE SECOND
PAGE FIXED; LOAD RETURNS THE LENGTH OF
THE MODULE IN REGISTER 1, BUT THIS IS DESTROYED
WHEN THE REGISTER IS USED AS A WORK REGISTER.

*
OX00364 5741SC1D1 MODULE - IFG0202I

CLOSE SMF MODULE IFG0202I MAY
ABEND WITH 0CX IF DCB IS A SHORT
EXCP DCB.

*
OX00367 5741SC1D0 MODULE - IGC0906H

AN 0C5 ABEND OCCURS IN IGC0906H DUE TO A BAD TEST FOR A
PERMANENT I/O ERROR. THIS ERROR MAY OCCUR
IF IOB UNRELATED FLAG IS ON ALLOWING IOB TO BE
REUSED.

*
OX00377 5741SC1D0 MODULE - IGG0191C

USE OF DD DUMMY WITH BAD
BLOCKSIZE DOES NOT RESULT IN AN 013 ABEND.

*
OX00392 5741SC1D4 MODULE - IGG020D1 IGG0290C IGG020P3
IGG0290D IGG0290E IGG0290F IGG0290A
IGG0299A IGG0290B

IF PARTIAL RELEASE OR SCRATCH RETURNS AVAILABLE
SPACE TO THE FORMAT 5 DSCB, AND THIS AVAILABLE
SPACE OVERLAPS EXISTING AVAILABLE SPACE, THE ROUTINE
THAT MERGES THE EXTENTS CAUSES MISSING TRACKS
IN THV TOC.

*
OX00394 5741SC1D8 MODULE - IGG019H3 IGG019H7

WITH HIGH LEVEL INDEX IN CORE, AFTER A 'NO RECORD
FOUND' ON A BISAM READ, THE POINTER TO THE CHANNEL
PROGRAM IS LOST AND THE POINTER TO CP4 IN THE DCB
WORK AREA THEN POINTS INTO THE MIDDLE OF THE HIGH
LEVEL INDEX.

*
OX00395 5741SC1D0 MODULE - 000000

ADDRESS OF RECORD NOT RETURNED IN REGISTER 1.

*
OX00396 5741SC1S5 MODULE - SGIEF442

DURING AN I/O SYSGEN SYSTEM FAILED TO PRODUCE
AN ORDER CARD FOR THE LINK EDIT OF MODULE IEFSD161.

*
OX00397 5741SC1D0 MODULE - IGC0010E IGC00020

THE POINTER TO THE DEB IN THE DCB IS NOT VALID BECAUSE
THE DEB POINTED TO IS NOT ON THE DEB CHAIN POINTED TO BY
THE TCB. HOWEVER, THE DCB IS POINTED TO BY THE DEB
CHAINED OFF OF THE TCB; THAT IS THE DCB AND DEB ARE NOT
FORWARD AND BACKWARD CHAINED CORRECTLY.

*
OX00398 5741SC1D0 MODULE - IGG0191T

THE FOLLOWING MESSAGE HAS NO MCS FLAG, ROUTE CODE,
OR DESCRIPTOR CODES-IEC129D SPECIFY FCB PARAMETER THE
MCS FLAG FIELD BETWEEN THE LENGTH OF MESSAGE SHOULD BE
CHANGED FROM X'0000' TO X'8000' AND AN APPROPRIATE
FOUR BYTES SHOULD BE ADDED ON THE END OF THE MESSAGE.

*
OX00399 5741SC1D0 MODULE - IGG0197E

LENGTH OF MESSAGE IEC124I IS INCORRECT. IEC125I
AND IEC127D HAVE NO MCS ROUTING CODES OR DESCRIPTOR CODES.

*
OX00400 5741SC1D0 MODULE - IGG019BG

F37 ABEND USING PAPER TAPE, BSAM.

*
OX00431 5741SC1D0 MODULE - IGG0196I IGG0196A

INVALID DEB ADDED TO DEB
CHAIN WHEN USER MODIFIED DEB ADDR IN DCB
DURING OPEN PROCESSING.

*
OX00432 5741SC1D0 MODULE - IGG0197F IGG08104

MESSAGE IEC128D IS ROUTED TO WRONG CONSOLE.

*
OX00433 5741SC1D0 MODULE - IGG0196J

BAD RECORD RECEIVED AT END OF SHORT BLOCK WITH
EXCHANGE BUFFERING AND 3330 SUPPORT.

*
OX00435 5741SC1D7 MODULE - IGG0191L

CHANNEL PROGRAM CHECK WHEN USING BDAM
CREATE WITH TRACK OVERFLOW.
AMOUNT OF DATA WHICH FITS ON TRACK
CALCULATED INCORRECTLY.

*
OX00440 5741SC1D7 MODULE - IGC0005C IGG019KC

AN 04 ABEND IN IGC0005C TRYING TO
FREE IOB TWICE.

*
OX00442 5741SC1D7 MODULE - IGGR19K0 IGG019LA

PROGRAM CHECK WHEN WRITING OUT A
NEW FIXED-LENGTH RECORD IN V=R SPACE.

*
OX00447 5741SC1D7 MODULE - IGGR19KN IGG019JB IGG019KL

WAIT STATE WHEN USING A 2305 DEVICE WITH OVER-
LAPPING I/O. RB SHOWS WAIT COUNT OF 1 BUT ALL
ECB'S APPEAR TO BE POSTED.

*
OX00451 5741SC1D0 MODULE - IGGR19CU

ABEND400 ON 3211 PRINTER IN IEFOSC01. AFTER INTER-
VENTION REQUIRED MESSAGE.

*
OX00474 5741SC1C5 MODULE - MODESET

MODESET MACRO IS NOT IN THE SYSTEM. MACRO
WAS IN AMODGEN AND NOT AVAILABLE TO RUNNING
SYSTEM.

*
OX00497 5741SC1C5 MODULE - IEAAMS

WHEN STORAGE MGMT. SET THE SYSTEM LOCK WHEN
IT GOT A RETURN CODE=8 ON FIRST RETURN FROM SERVICE
INTERFACE TRN., IT DID NOT INDICATE TO THE SYSTEM
NOT TO DEACTIVATE THAT TASK, CAUSING A SYSTEM WAIT.

*
OX00500 5741SC1C5 MODULE - IEAPGEX

WAIT STATE WHEN PAGE SUPERVISOR ECB IS POSTED
BUT THE PAGE SUPERVISOR IS NOT DISPATCHED.

*
OX00547 5741SC1D1 MODULE - IFG0200Y IFG0202E IFG0201R
IFG0200P IECEQU IECPDINI SGIEC5PS

PARTIAL RELEASE FREES UNUSED SPACE BEFORE WRITING
AN EOF. TO DATE, THE FILE MARK WILL BE WRITTEN ON THE
PRESENT TRACK WHEN FIXED DOCKED STANDARD RECORDS ARE
USED, IF THERE IS SPACE AVAILABLE FOR THE FILE MARK
ON THIS TRACK. OTHERWISE, THE FILE MARK IS WRITTEN ON
THE NEXT TRACK FOR THIS DATA SET EVEN IF THERE IS SPACE
ON THE PRESENT TRACK. THIS MEANS THAT THE EOF WILL PROBABLY
BE WRITTEN ON A TRACK THAT HAS JUST BEEN RELEASED BY
PARTIAL RELEASE. IF THIS FREED SPACE IS ALLOCATED TO
ANOTHER DATA SET BEFORE THE EOF MARK IS WRITTEN, THE
EOF WILL BE WRITTEN OVER THE FIRST TRACK OF DATA OF
THE NEW DATA SET.

*
OX00548 5741SC1D4 MODULE - IGG020P3 IGC0R05B IGG020P1
IGG020P2 IGG020D0 IGG020D1 SGIEC5DM

PARTIAL RELEASE WRITES BACK THE FORMAT 4 DSCB BEFORE
RETURNING TO CLOSE OR CHECKPOINT RESTART. IF CLOSE OR
CHECKPOINT RESTART HAVE AN IO ERROR IN TRYING TO WRITE
BACK THE UPDATED FORMAT 1 DSCB TO THE VTOC, THE RELEASE
SPACE APPEARS AS AVAILABLE SPACE IN THE FORMAT 5 DSCB BUT
AS ALLOCATED SPACE IN THE FORMAT 1 DSCB. NOTE THAT THE
DIRF BIT WILL HAVE ALREADY BEEN RESET BEFORE THIS IO
ERROR OCCURS.

*
OX00614 5741SC1D8 MODULE - IGG0202I

A WAIT STATE OR 522 ABEND OCCURS IN MODULE IGG0202I
AFTER ZAP FOR APAR OX00818 IS APPLIED. MODULE IGG0202I
IS WAITING ON COMPLETION OF I/O. HOWEVER, THE RQE'S
INDICATE THAT NO I/O ACTIVITY IS OUTSTANDING.

*
OX00801 5741SC1D0 MODULE - IGG021AB

DELETING A NUMBER OF ENTRIES AT THE BEGINNING OF A
DIRECTORY WILL CREATE DUPLICATE ENTRIES.

*
OX00803 5741SC1B3 MODULE - IEFSD303

WHEN A SYSTEM RESTART IS DONE THE NUMBER OF JOB
QUEUE TRACKS FOR RDRS, WTRS, AND INITS WHICH ARE
CHAINED TO THE FREE TRACK QUEUE IS NOT ADDED TO THE
COUNT OF FREE TRACKS IN MASTER QCR.

*
OX00804 5741SC1C3 MODULE - IECIOSB

LOOP IN TRANSLATOR. IF IOB IS ON A PAGE BOUNDARY WHICH IS ON AN INVALID FIG. BOUNDARY IOS INADVERTENTLY SITS A CHAIN POINTER INSTEAD OF A END OF LIST INDICATOR DURING CONTROL BLOCK FIX PROCESSING OF CAN'T DO RETUNES CODE.

*
OX00805 5741SC1C3 MODULE - IECIOSB IECXCP

903 WAIT STATE. ON 2ND EXIT FROM TRANSLATOR TO LABEL INT027 THE UNIT ADDR. LOADED FROM THE UCB CONTAINED SOME EXTRANEOUS BITS, OTHER THAN CHAN & UNIT.

*
OX00810 5741SC1C5 MODULE - IEAAPS IECINT

UPON SCHEDULING AN ASYNCHRONOUS EXIT FROM A CHANNEL END APPENDAGE, THE SHORT TERM FIXED PAGES ASSOCIATED THE THAT I/O OPERATION REMAIN UNFIXED TO PREVENT THE EXIT EFFECTOR FROM TAKING A PAGE FAULT REFERENCING THE IRB ADDRESS IN THE DEB. IF A TASK GETS CONTROL THAT CAUSES DEACTIVATION, RE-ACTIVATION MAY BE PREVENTED BECAUSE OF THE OUTSTANDING SHORT TERM FIXES.

*
OX00814 5741SC1B4 MODULE - IEFSD097

IEFSD097 FAILS TO CLEAR REGISTER 0 PRIOR TO PICKING UP THE LENGTH OF THE TIOT ENTRY. AS A RESULT, IF REG0 CONTAINS A VALUE OTHER THAN ZERO, A PROGRAM CHECK MAY RESULT.

*
OX00817 5741SC1C5 MODULE - IEAAD0F

WHEN A PROGRAM ISSUES A SNAP, THE BIT PREVENTING ASYNCHRONOUS EXITS IS TURNED ON, PREVENTING ANY ASYNCHRONOUS EXITS FROM BEING SCHEDULED AFTER THAT POINT IN THE PROGRAM.

*
OX00818 5741SC1D8 MODULE - IGG0202I

LAST BYTE OF LAST RECORD OF PARTIAL BLOCK OVERLAID BY HEX FF.

*
OX00819 5741SC1B2 MODULE - IEFSD082 IEFSD089

ABEND 0C5 IN SYSTEM WRITER (IEEOSC01, IEEOSC02) DUE TO INCORRECT HANDLING OF EMPTY DSB'S IF THE EMPTY DSB IS FIRST ON THE DSB CHAIN. MSG IEF346I COPIES BEING PRINTED MAY BE ISSUED WITH HIGH COPY COUNT.

NOTE:
IN ORDER TO MAKE THE LIST OF OX APARS AS COMPLETE AS POSSIBLE, THE NEXT 20 APARS WERE ADDED OUT OF SEQUENCE.

*
OX00213 5741SC118 MODULE - HMDSYS03

WHEN EDIT A TRACE DATA SET OR A SA DUMP WITH SYSM TRACE RECORDS THE RQE_TCB FIELD IS CONVERTED TO HEX EVEN IF 'N/A ' IS IN THAT FIELD.
EXAMPLE: UNSOLICITED I/O INTERRUPT (EID=7101) PRINTS OUT AS:
I/O OLDPSW----CSW----RCSW---RQE TCB D561C140
SHOULD BE: I/O OLDPSW----CSW----RCSW--- RQE TCB N/A
PROBLEM SUMMARY:
N/A IN THE RQE-TCB FIELD IS CONVERTED TO HEX REPRESENTATION. MODULE SYS03 CHECKS THE WRONG FIELD FOR N/A.

*
OX00214 5741SC115 MODULE - HMDSAPGE

IMPLEMENTATION OF UNUSUAL (RARE) 3330 & 2305 I/O ERRORS NOT COMPLETED. THE FOLLOWING MESSAGE MAY APPEAR:
HMD0331 I/O ERROR ON XXX (D.A. DEVICE) CC=YY, WHERE YY MSG 34, (SEEK CHECK) 3A (COMMAND REJECT) 3E (CHANNEL PROGRAM CHECK) OR 90 (ERROR EXECUTING ERP CCW'S).

*
OX00215 5741SC118 MODULE - SGHMA501

OPEN/CLOSE/EOV DID NOT CHANGE THE NAME OF ITS FORMAT APPENDAGE ROUTINE FROM IMDUSRFF TO HMDUSRFF WHEN GOING FROM OS TO VS1 BUT THE FORMAT APPENDAGE LOAD ROUTINE IN PRDMP EDIT TRIES TO LOAD HMDUSRFF FIRST AND WHEN HMDUSRFF CAN'T BE FOUND PRDMP ISSUES MSGS HMD177I AND HMD180I AND THEN TRIES TO LOAD IMDUSRFF.

*
OX00284 5741SC1U2 MODULE - IEHLIST1

A LISTVTOC, IN THE FORMAT MODE, PRINTED VACANT SPACE AS 18 EMPTY TRACKS WHEN THERE WAS ACTUALLY ONE EMPTY CYLINDER (19 EMPTY TRACKS).

*
OX00285 5741SC1U2 MODULE - IEHLIST1

WITH PTF 70470 APPLIED A LISTVTOC, IN THE FORMAT MODE, REFLECTS THAT IF A DATA SET HAD BETWEEN FOUR AND THIRTEEN EXTENTS IEHLIST WOULD PRINT 'UNABLE TO CALCULATE EMPTY SPACE'.

*
OX00306 5741SC1D0 MODULE - IGG0197C IGG0197D

THE USERS MODULES DO NOT CONTAIN
THE FIX FOR APAR 41426.

*
OX00321 5741SC107 MODULE - IFFAGA07

A CALL IN UPDATE MODE OVERLAYS GTRU AT END OF BUFFER SEGMENT. UPDATE, FAILING TO REALIZE THAT THE OLP HAS BEEN BUMPED TO THE BEGINNING OF THE NEXT SEGMENT, OVERLAYS THE GTRU WHEN ATTEMPTING TO PAD THE LENGTH LEFT IN PREVIOUS SEGMENTS WITH AGNOP2

*
OX00322 5741SC107 MODULE - IHCGSP04

AFTER RETURN FROM THE FORTRAN I/O CONVERSION ROUTINE THE GSP MODULE IHCGSP04 SETS INCORRECT FLAGS AT IBCOM+X'7C'. ALL SUBSEQUENT CALLS TO THE CONVERSION ROUTINES RESULTS IN THE ERROR MESSAGE IHC9041.

*
OX00323 5741SC1G0 MODULE - IGC070

IGC070 DOESN'T SAVE REG 1 BEFORE ISSUE DEBCK MACRO, DESTROYING INFORMATION IN IT.

*
OX00324 5741SC107 MODULE - IFFAJA02

FLOATING POINT PRECISION IS IMPAIRED

*
OX00340 5741SC10A MODULE - IHKLAP

IHKLAP WAS INCORRECTLY SETTING UP WRITE IDLE REQUEST FOR BTAM WHEN RE-ENABLING 2741 HARDWARE.

*
OX00341 5741SC10A MODULE - IHKCMD

WHEN COMMAND IS TYPED IN WITH TRAILING BLANKS,
CRJE ABENDS.

*
OX00441 5741SC1D1 MODULE - IFG0202B

'0C5' ABEND IN IFG0202B (ALIAS IGG02000B)
WHEN READING THE DEB POINTER IN A SPOOLED DCB.
THE SPOOLED DCB IS PARTIALLY CLOSED AND
THE DEB FIELD HAS BEEN RESTORED TO THE
DD NAME.

*
OX00522 5741SC118 MODULE - HMDSYS00

EDIT OUTPUT ALWAYS INDICATES CC 0 FOR SIO COMPREHENSIVE
TRACE RECORDS.

*
OX00529 5741SC111 MODULE - HHLTSV1 HHLTSYNC

IF DEB ADDRESS IS 0 IN PURGE (SVC 16) PARAMETER LIST,
GTF GOES INTO ERROR RECOVERY AND PLACES **'S IN THE FIELD
BECAUSE OF PROGRAM CHECK. THIS PROGRAM CHECK IS NORMALLY
TRANSPARENT TO THE USER.

*
OX00589 5741SC1D1 MODULE - IFG0202B

0CX ABENDS AND VOLUME DISPOSITION ERRORS OCCUR
DURING A MULTI-DCB CLOSE IN WHICH AN NSL DCB IS FOLLOWED BY
NON-NSL DCB.
U2 S21042
U3 IFG0202B

*
OX00667 5741SC1CB MODULE - IGE0001A

LOST DATA AFTER VALIDITY CHECK ON 3505.

*
OX00668 5741SC1CB MODULE - IGE0001C

IGE0001C ABENDS WITH 0C5 IF ICC OR CCC OCCURS
WITH ZERO CCW ADDRESS.

*
OX00683 5741SC1C5 MODULE - IEA0ST01

LOOP IN IEA0TI00 BECAUSE A TQE IS CHAINED TO
ITSELF.

*
OX00737 5741SC1U2 MODULE - IEHLIST1

THE EMPTY SPACE CALCULATION ON A LISTVTOC FORMAT IS
HIGH BY ONE BLOCK WHEN SPACE IS ALLOCATED IN RECS
(BLOCKS) AND THE RECORD NUMBER (R OF TTRLL) IS ZERO.

```
*
 OY00174  5742SC1D8   MODULE -  IGG019IY

MODULE IGG019IY ABENDS 0C4 BECAUSE IOB POINTER IS
INCORRECT.

*
 OY00820  5742SC1CE   MODULE -  IGFVCC60  IGFVCC70

CCH MODULES IGFVCC60,IGFVCC70 USE CSW COMMAND ADDRESS TO
REFERENCE CCW WITHOUT CONVERTING THE ADDRESS TO A VIRTUAL
ADDRESS.  THE RESULT IS INVALID DATA USED FOR CCW COUNT
AND HENCE INCORRECT RETRY CODES IN ERPIB. A DISABLED PAGE
FAULT MAY ALSO OCCUR.

*
 OY00828  5742SC1CE   MODULE -  IGC0308E

SYSTEM ENCOUNTERED ENABLED WAIT STATE AFTER DDR SWAP ON
3330 DEVICE. SWAP IS SYSTEM INITIATED AND TO ITSELF.




      OY00174 OY00820 OY00828

TOTAL NUMBER OF APARS INCLUDED -     3
```

```
OS39979 OS41465 OS42220 OS42263 OS42682 OS43865 OS44107
OS44135 OS44144 OS44326 OS44641 OS44853 OS45048 OS45128
OS45131 OS45153 OS45170 OS45172 OS45174 OS45179 OS45185
OS45188 OS45205 OS45212 OS45216 OS45221 OS45260 OS45280
OS45281 OS45617 OS45624 OS45783 OS46361 OS46398 OS46599
OS46625 OS46636 OS46670 OS46713 OS46776 OS46824 OS46833
OS46834 OS46835 OS46837 OS46838 OS46842 OS46845 OS46852
OS46854 OS46856 OS46858 OS46863 OS46868 OS46914 OS46955
OS46957 OS47091 OS47216 OS47317 OS47319 OS47330 OS47331
OS47333 OS47334 OS47334 OS47338 OS47350 OS47351 OS47354
OS47361 OS47365 OS47372 OS47382 OS47408 OS47418 OS47465
OS47520 OS47527 OS47711 OS47713 OS47725 OS47745 OS47754
OS47767 OS47776 OS47788 OS47795 OS47799 OS47828 OS47863
OS47928 OS47964 OS48088 OS48109 OS48172 OS48173 OS48174
OS48181 OS48201 OS48213 OS48227 OS48228 OS48235 OS48492
OS48519 OS48529 OS48540 OS48556 OS48560 OS48584 OS48589
OS48604 OS48612 OS48615 OS48623 OS48629 OS48649 OS48653
OS48658 OS48664 OS48732 OS48737 OS48742 OS48747 OS48750
OS48753 OS48756 OS48757 OS48762 OS48773 OS48776 OS48777
OS48781 OS48782 OS48796 OS48797 OS48799 OS48800 OS48806
OS48809 OS48812 OS48817 OS48819 OS48921 OS49183 OS49315
OS49319 OS49333 OS49351 OS49351 OS49370 OS49373 OS49379
OS49380 OS49383 OS49403 OS49418 OS49434 OS49437 OS49437
OS49438 OS49456 OS49466 OS49555 OS49657 OS49664 OS49669
OS49670 OS49677 OS49679 OS49681 OS49683 OS49688 OS49689
OS49690 OS49692 OS49693 OS49697 OS49801 OS49881 OS49897
OS49898 OS49899 OS49961 OS49961 OS49989 OS50114 OS50243
OS50272 OS50288 OS50304 OS50321 OS50326 OS50330 OS50331
OS50338 OS50362 OS50373 OS50376 OS50649 OS50661 OS50670
OS50678 OS50696 OS50697 OS50698 OS50699 OS50699 OS50703
OS50707 OS50728 OS50728 OS50812 OS50831 OS50923 OS50933
OS50938 OS50939 OS50942 OS50947 OS50950 OS50958 OS50959
OS50965 OS50977 OS50980 OS51000 OS51050 OS51108 OS51109
OS51135 OS51136 OS51137 OS51138 OS51139 OS51158 OS51160
OS51174 OS51175 OS51185 OS51186 OS51208 OS51213 OS51236
OS51276 OS51277 OS51414 OS51415 OS51416 OS51421 OS51459
OS51461 OS51465 OS51472 OS51474 OS51488 OS51492 OS51502
OS51504 OS51505 OS51509 OS51510 OS51512 OS51519 OS51539
OS51541 OS51543 OS51547 OS51553 OS51570 OS51574 OS51575
OS51592 OS51593 OS51596 OS51608 OS51653 OS51683 OS51696
OS51697 OS51698 OS51699 OS51711 OS51714 OS51721 OS51722
OS51738 OS51752 OS51802 OS51930 OS51940 OS51950 OS51963
OS52003 OS52004 OS52005 OS52025 OS52028 OS52029 OS52050
OS52064 OS52275 OS52291 OS52300 OS52320 OS52328 OS52329
OS52331 OS52335 OS52335 OS52336 OS52337 OS52346 OS52366
OS52367 OS52368 OS52385 OS52386 OS52390 OS52396 OS52397
OS52404 OS52407 OS52413 OS52430 OS52438 OS52445 OS52446
OS52447 OS52453 OS52459 OS52460 OS52462 OS52472 OS52473
OS52475 OS52477 OS52480 OS52483 OS52527 OS52530 OS52539
OS52595 OS52641 OS52664 OS52670 OS52700 OS52721 OS52783
OS52784 OS52928 OS53045 OS53086 OS53128 OS53130 OS53131
OS53132 OS53137 OS53143 OS53144 OS53145 OS53156 OS53161
OS53162 OS53163 OS53164 OS53177 OS53183 OS53186 OS53193
OS53194 OS53195 OS53207 OS53209 OS53211 OS53213 OS53214
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TOTAL NUMBER OF APARS INCLUDED - 511

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OS53270 OS53272 OS53277 OS53279 OS53284 OS53294 OS53297
OS53313 OS53317 OS53335 OS53340 OS53411 OS53458 OS53471
OS53473 OS53501 OS53522 OS53523 OS53532 OS53534 OS53536
OS53648 OS53653 OS53664 OS53742 OS53743 OS53787 OS53790
OS53794 OS53798 OS53803 OS53836 OS53843 OS53860 OS53862
OS53914 OS53927 OS53929 OS53945 OS53951 OS53977 OS54077
OS54155 OS54211 OS54231 OS54348 OS54460 OS54462 OS54463
OS54486 OS54490 OS54497 OS54515 OS54550 OS54556 OS54571
OS54604 OS54610 OS54622 OS54635 OS55024 OS55034 OS55038
OS55053 OS55055 OS55202 OS55225 OS55236 OS55358 OS55362
OS55370 OS55373 OS55374 OS55423 OS55450 OS55451 OS55468
OS55469 OS55487 OS55514 OS55527 OS55570 OS55576 OS55577
OS55588 OS55638 OS55645 OS55712 OS55714 OS55715 OS55716
OS55847 OS55854 OS55974 OS56047 OS56245 OS56335 OS56350
OS56354 OS56369 OS56388 OS56396 OS56399 OS56416 OS56426
OS56446 OS56452 OS56505 OS56524 OS56532 OS56533 OS56797
OS57175 OS57176 OS57186 OS57187 OS57207 OS57232 OS57269
OS57370 OS57374 OS57546 OS57567 OS57952 OS58518 OS59235
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*
OS39979 360SD1508 MODULE - IGC0001I IGC0002B IFG0193A
IGC00020 IGC0002C

THE RESULTS OF OPENING OR CLOSEING A LIST OF
DCB'S IN WHICH A DCB IS REPEATED ONE OR MORE
TIMES ARE UNPREDICTABLE.

*
OS41465 360SD2508 MODULE - IGG0190M

INCOMPLETE TESTS FOR 'D' TYPE RECORD FORMAT
WHEN CHECKING FOR ASCII FIELDS IN AN EBCD1C
DATA SET.

*
OS42220 360SC5535 MODULE - IEFWA000

UNIT AFFINITY THAT IS SET UP FOR GDG ALL
REQUESTS IS NOT PROPERLY RESOLVED BY ALLOCATION
WHEN PROCESSING THE VOL AFFINITY CHAINS IF A DATASET IS ON
MULTIVOL IN THE CASE IT WILL GET ALLOCATED TO THE SAME
DEVICE TWICE.

*
OS42263 360SLM537 MODULE - IFFAFA03

LOOP OCCURS WHEN USING PTEXT IN UPDATE MODE.

*
OS42682 360SRC551 MODULE - IHKLST

MSG IHK242I IS ISSUED AND CRJE IS SHUT DOWN WHEN THERE
IS NO ACTUAL I/O ERROR IN THE ACTIVE FILE.

*
OS43865 360SD1508 MODULE - IGG0199M

BUFOF FIELD IS NOT BEING MERGED FROM DCB
TO JFCB DURING OPEN.

*
OS44107 360SD6508 MODULE - IGE0011E

A COMMAND REJECT ON THE SCV CHANNEL PROGRAM IS NOT
ENTERED IN LOG REC.

*
OS44135 360SD1508 MODULE - IFG0193A

UTILITY IEBDG DOES NOT HAVE A DSORG SPECIFIED
IN THE DCB AT OPEN TIME. IF THE DCB DOES NOT HAVE
A DSORG OF PS, THE SUPERZAP FIX FOR APAR 40552 IS
BYPASSED, RESULTING IN THE LAST VOLUME SPECIFIED
BEING MOUNTED FIRST FOR DISP=MOD, EVEN THOUGH A
VOLUME SEQUENCE NUMBER OF 1 IS SPECIFIED. THIS
CODE IS IN IGC0001I, IGC0002B.

*
OS44144 360SU3506 MODULE - IEBCOPY IEBMCA

IF IEBCOPY GIVES MSG IEB148I INDICATING THAT THE DIRECTORY
SPACE FOR THE OUTPUT DATASET IS EXHAUSTED, IEBCOPY GIVES
A RETURN CODE 4 AND FLUSHES TO THE NEXT COPY OPERATION.
ACCORDING TO AN IBM STANDARD THIS RETURN CODE SHOULD BE 8.

*
OS44326 360SU1506 MODULE - IEHMVSRD

IEHMOVE WILL UNLOAD PDS MEMBERS WITH INVALID
NOTELISTS WITHOUT ISSUING A WARNING MESSAGE.

*
OS44641 360SRC551 MODULE - IHKIRL

USER INSERTS PL/1 STATEMENTS. PL/1 SYNTAX CHECKER ON
AUTO-SCAN INDICATES A LINE IS IN ERROR. WHEN 'INSERT
TERMINATED' MESSAGE (IHK359) IS SENT, 'NEXT LINE NUMBER'
GIVEN IS INCORRECT OR GARBAGE.

*
OS44853 360SIO526 MODULE - IGG019I2

USING FULL TRACK INDEX WRITE WITH ISAM
LOAD MODE, WHEN CLOSE IS ISSUED WITH ENOUGH
UNWRITTEN BUFFERS TO CROSS A CYLINDER BOUNDARY,
THE TRACK INDEX AND CYLINDER INDEX ARE INCORRECTLY
WRITTEN.

*
OS45048 360SD1508 MODULE - IGG0552N IGG0551A IFG0551L

CONCATENATION OF UNIT RECORD DEVICES, AN ERROR OCCURS
BECAUSE IN IGG0552N A BAD UCB ADDRESS IS MOVED INTO THE
DEB UCB ADDRESS FIELD. ALSO, A CHANNEL PROGRAM CHECK
MAY OCCUR AS CCWS ARE ZEROED OUT IN IGG0551A (IFG0551L IN
RELEASE 21) FOR UNIT RECORD CONCATENATION.

*
OS45128 360SU1506 MODULE - IEHMVSSF

OPEN SWOPS THE DEVICE-ENTRIES IN A TIOTENTRY DURING
EOV. PROCESSING. THE VOLUME-MOUNTER (IEHMOVE)
CHECKS ONLY THE FIRST DEVICE-ENTRY IN A TIOT-ENTRY.

*
OS45131 360SU4506 MODULE - IEBGSCAN IEBGENRT

WHEN A PROGRAM LINKS SEVERAL TIMES TO IEBGENER
IN ONE EXEC STEP AN 80A ABEND OCCURS.

*
OS45153 360SU2506 MODULE - IEBUPDT2

USING CHANGE STATEMENT WITHOUT NUMBER AND/OR
DELETE AND/OR DATA STATEMENTS GIVES NO ERROR
INDICATION IF ONLY 1 RECORD IS CHANGED FROM
PO TO PS.
WHEN MORE RECORDS ARE CHANGED STATEMENT SEQUENCE ERROR
IS ENCOUNTERED.

*
OS45170 360SU3506 MODULE - IEBMCA

IEBCOPY CAN GET AN 80A OR 804 ABEND
BECAUSE IT DOES NOT LEAVE ENOUGH CORE EITHER
FOR SYSTEM USE (OPEN CLOSE EOV SYNADAF ETC.)
EITHER TO LOAD IT'S OWN I/O APPENDAGE.

*
OS45172 360SU1506 MODULE - IEHMVETL

MSG IEH462I NO RECORD FOUND
OCCURRED READING DATA SET XXX ISSUED
WHEN LOADING AN UNLOADED BDAM DATA
SET WITH RECFM=U

*
OS45174 360SU3506 MODULE - IEBSCN

WHEN A SELECTED STATEMENT ENDS WITH TWO CLOSING
BRACKETS IN COLUMN 70-71 AND A BLANK IN COLUMN 72.
IEBCOPY INCORRECTLY INTERPRETES CONTINUATION
ON THE NEXT CARD.

*
OS45179 360SU1506 MODULE - IEHMVSRX

THE JFCBVOLS FIELD IN THE INCORE
JFCB FOR OPEN-J IS NOT PADDED WITH
BLANKS BY IEHMOVE SO AT EOV A MOUNT
REQUEST (MSGIECOOIA) FOR VOLUME 'SCRTCH'
CANNOT BE BUILT.

*
OS45185 360SU3506 MODULE - IEBSCN

A CONTROL STATEMENT (SELECT MEMBER STATEMENT)
WAS EXTENDED TILL COLUMN 71 AND HAD A CONTINUATION
CHARACTER IN COLUMN 72, BUT WAS REFUSED AS AN INVALID
STATEMENT BY IEBCOPY. THE CHARACTER IN COLUMN 71
WAS A RIGHT PARENTHESIS.

*
OS45188 360SU1506 MODULE - IEHMVSRV IEHMVSRX

A RDYFCB FAILED BECAUSE THE DDNAME
WAS MISSPELLED CONSEQUENTLY THE OPEN-J ABENDED
(SYSTEM 413).

*
OS45205 360SU2506 MODULE - IEBASCAN IEBUPDT2

RUNNING IEBUPDTE WITH NSL ROUTINES DOESN'T WORK BECAUSE
USER EXITS ARE ALWAYS ACFIVE IN IEBUPDTE.
WHEN USER HAS NSL ROUTINES WHICH USER THE DCB EXIT
ROUTINES FOR CONTROL, IEBUPDTE GETS CONTROL AND GIVES
MSG IEB844I

*
OS45212 360SU2506 MODULE - IEBUPDT2

WHEN ./ LABEL FOLLOWED A CONTROL STATEMENT ERROR
AN 0C4 ABEND MAY OCCUR, WHEN TRYING TO PRINT LABELS.

*
OS45216 360SU3506 MODULE - IEBDV1

COPYING TO A PDS FOR WHICH NO LRECL INFORMATION
IS PRESENT EITHER IN THE DSCB OR ON THE DD
CARD THE LRECL FIELD OF THE FIRST INPUT DATA SET
IS USED FOR THE OUTPUT DATA SET.
IN CASE OF UNDEFINED RECORDS THIS IS REDUNDANT.

*
OS45221 360SD2508 MODULE - IGG0191Q IGG0196K IGG0201X

IF A DCB IS OPENED TO A UNIT RECORD DEVICE WITH RECFM=FB
THEN CLOSED AND REOPENED TO ANOTHER DEVICE, A 013 ABEND
WILL OCCUR.

*
OS45260 360SIO526 MODULE - IGG02029

MODULE IGG02029 WAITS WHEN NO I/O IS OUTSTANDING.

*
OS45280 360SD2508 MODULE - IGG0191B IGG0201X IGG0201Y

AN 013 ABEND WILL OCCUR ON THE SECOND OPEN OF A DCB
THAT SPECIFIES RECFM=F AND THE DCB HAS PREVIOUSLY BEEN
CLOSED AFTER A PUTX.

*
OS45281 360SUK506 MODULE - IEHDEXCP

IEHDASDR GIVES AN I/O ERROR MESSAGE (IEH813I)
IF AN UNUSED TRACK HAVING TRACK OVERFLOW IS NOT
FOLLOWED BY A TRACK CONTAINING THE OVERFLOW
SEGMENT. THIS IS CAUSED BY IOS ATTEMTING TO READ
THE OVERFLOW SEGMENT AND GETTING NRF ON THE SID
OF THE NEXT TRACK.

*
OS45617 360SD1508 MODULE - IFG0194D

IF A GENERATION DATA GROUP DATA SET THAT REQUESTS A
NON SPECIFIC TAPE IS NOT OPENED THUS THE SERIAL IS NOT
RESOLVED A SERIAL OF HEX FF 4040404040 IS CATALOGED.
IF THAT GENERATION IS LATER USED WITH THAT SERIAL STILL
IN THE CATALOG. OPEN ASSUMES THAT IT IS A VOLUME EQUAL
REF REQUEST AND ATTEMPTS TO READ THE JFCB WITH A RE-
LATIVE TTR OF 404040. SINCE THIS NOT A VALID TTR A IBO
OR 113 ABEND OCCURS.

*
OS45624 360SD7508 MODULE - IGC0506C

MESSAGE IHJ004I IS PRINTED BY CHECKPOINT INSTEAD OF
IHJ005I. WHEN ENQ'S ARE ACTIVE. THE RETURN CODE
RETURNED TO THE USER IS CORRECT.

*
OS45783 360SD2508 MODULE - XDAP

XDAP MACRO CAUSES ASSEMBLY ERROR IN 20.1 IF TYPE
OPERAND NOT SPECIFIED IN EXECUTE FORM.

*
OS46361 360SD2508 MODULE - IGG0191E IGG0196J

806 ABEND DOING PARALLEL OPEN IF ONE DCB IS NOT
OPENABLE. PROBLEM OCCURS BECAUSE THE WTG TABLE
ENTRY FOR THIS DCB HAS ZEROS FOR ITS WORK AREA
ADDRESS - WHEN WE TRY TO USE THIS ADDRESS (ZERO)
DURING OUR XCTL THE ABEND OCCURS.

*
OS46398 360SD6508 MODULE - IGG019V5

A HARDWARE MALFUNCTION CAUSES AN UNWANTED
UNIT EXCEPTION. 1419 SUPPORT GOES INTO A
WAIT STATE.

*
OS46599 360SDN539 MODULE - IGFMCHF0

A WAIT STATE OCCURS DURING NIP IF A SOFT MACHINE
CHECK INTERRUPT IS LOGGED AFTER MCH ENABLES FOR SOFT
CHECKS BUT BEFORE NIP TURNS THE WAIT BIT OFF IN THE MACHINE
CHECK NEW.

*
OS46625 360SD6508 MODULE - IGG019V5

CONTROL BLOCK, ERBLIST, USED BY 1419 SUPPORT IS
OVER LAYED BY IGG019V5. DECB POINTERS ARE DESTROYED
AND THE CHECK FUNCTION IS ABENDED.

*
OS46636 360SD1508 MODULE - IGC0001I

WHEN OPENING MORE THAN DCB, AND THE LAST DCB DOES NOT
HAVE A DD CARD, 8 BYTES OF THE USERS REGION ARE OVERLAYED
WITH THE XCTL PARAMETER LIST. REGISTER 4 IS USED AS THE
BASE TO THE GETMAINED IEC130I WTO MESSAGE AREA. THIS
LEAVES IT POINTING TO A SHORT FREEMAINED AREA INSTEAD
OF TO THE WORKAREA FOR THE PREVIOUS DCB.

*
OS46670 360SD7508 MODULE - IGC0L05B

BUFFER-PRIMING FOR QSAM CARD READER DATA SETS
IS NOT PERFORMED IF THE CARD READER IS NOT SYSIN.

*
OS46713 360SD1508 MODULE - IFG0196X

AN 0C5 OR 0C6 ABEND MAY OCCUR DURING OPEN IN IGG0190M OR IFG0196X WHEN CALCULATING THE SYSOUT OUTLIM EXCP LIMIT. OPEN FALSELY ASSUMES THAT IF THERE IS A TCT (TIMING CONTROL TABLE), THERE IS ALSO A TCTIOT (TIMING CONTROL TABLE I/O TABLE). THIS CAN ONLY HAPPEN IF OPT=1 WAS SPECIFIED FOR SMF DURING IPL.

*
OS46776 360SD4508 MODULE - IGC0003B IGG0325A IGG0325B IGG0325D IGG0325E IGG0325H IGG0325K IGG0325J IGG0325L

0C5 ABEND OCCURS IN THE TTR CONVERT ROUTINE BECAUSE MODULE IGG0325H PASSES CONTROL TO IGG0CLF2 TO WRITE DIRECTORY BLOCKS ALTHOUGH IEHMOVE HAS REQUESTED NO DIRECTORY BLOCKS IN ALLOCATING A MODEL DSCB WITH PARTITIONED DATA SET ORGANIZATION.

*
OS46824 360SCQ513 MODULE - IGE0404B

IN BTAM ERROR RECOVERY FOR REMOT 2260-2848 THE RETRY OF TEXT ERRORS FOLLOWING A READ INITIAL RESULTS IN THE DATA ADDRESS BEING INCREMENTED BY 1 & THE LENGTH DECREMENTED BY 1 IN THE READ REPEAT CCW. THE RESULT IS STX,STX DEVICE ADDRESS IN CARE.

*
OS46833 360SCQ513 MODULE - IECTONLT

IECTONLT ISSUES DISABLE BECAUSE IT DOES NOT CORRECTLY COMPUTE UCB TYP ADDRESS.

*
OS46834 360SCQ513 MODULE - IGG019MA

READ-WRITE ROUTINE, IGG019MA, DOES NOT TURN OFF THE AUTOPOLL BIT IN DECTYPE AFTER AN ABORTED READ INITIAL WITH AUTOPOLL.

*
OS46835 360SCQ513 MODULE - IGG019MR

IGG019MR ISSUES A RELBUF SVC AFTER COMPLETION OF AN ONLINE TEST CHANNEL PROGRAM, IF THE CCW FOLLOWING THE LAST ONLINE TEST CCW IS A TIC.

*
OS46837 360SCQ513 MODULE - IGG019MA

BTAM READ/WRITE MODULE (IGG019MA) DOES NOT INITIALIZE BUFFER COUNT FOR CURRENT OPERATION.

*
OS46838 360SCQ513 MODULE - IGG019MC

IF AX'20' APPEARS IN THE 1ST CHARACTER OF OTHER THAN THE FIRST BUFFER BTAM POSTS BUFFER WITH A 41.

*
OS46842 360SCQ513 MODULE - IECTONLT

IECTONLT INITIATES TWO OPERATIONS ON A SWITCHED LINE

*
OS46845 360SCQ513 MODULE - SGIHB000

IEEC2740 EXPECTS INTERRUPT FROM TP CONSOLE FOLLOWING HALT I/O. IF HALT I/O CONDITION CODE WAS 1 (CSW STORED), NO INTERRUPT WILL OCCUR.

*
OS46852 360SCQ513 MODULE - IGG019MS

IGG019MS LOOPS AFTER RELBUF BECAUSE LINK FIELD IN ACTIVE BUFFER CONTAINS ADDRESS OF ITSELF.

*
OS46854 360SCQ513 MODULE - IGG019MB

IF A TEXT RESPONSE TO TEXT TRANSMISSION IS RECEIVED DURING A WRITE TIV AND THE RESPONSE IS 20 CHARACTERS OR LESS, A SUBSEQUENT READ TT TRANSMITS

*
OS46856 360SCQ513 MODULE - IGG019MB

DECENTRY AND DECPOLPT ARE INCORRECTLY UPDATED IF BSC AUTOPOLL OPEN LIST IS USED FOR BAC TERMINALS.

*
OS46858 360SCQ513 MODULE - IGE0304B

DCB BASE REGISTER NOT SET UP IN IGE0304B.

*
OS46863 360SD2508 MODULE - IGG0191A

AN 0CR QSAM JOB ABENDS WITH A 013 AT OPEN BECAUSE NO BLKSIZE IS REQUIRED FOR OCR QSAM PROCESSING.

*
OS46868 360SDM509 MODULE - IGG019DB IGGR19DB IGC0005E

BDAM CREATE OF VARIABLE RECORDS HAS BAD INTERFACE WITH EOV WHEN OVERLAPPING I/O IS USED. WHEN WRITE

*
OS46914 360SD2508 MODULE - IGG019AV IGG0191C

0C6 ABEND IN IGG019AV IF USING QSAM GET WITH DUMMY DD, AND NO DCBEODAD SPECIFIED. ALSO, COULD

*
OS46955 360SIO526 MODULE - IGG019G0 IGG019G1 IGG019G2 IGG019G3 IGG019G6 IGG019G7

CP13 OVERWRITES TOP OF CORE.

*
OS46957 360SUK506 MODULE - IEHDPASS

WHEN DUMPING A PACK WITH IEHDASDR A REQUEST IS MADE FOR A PASSWORD ON A DATA SET WITH WRITE-ONLY PROTECTION.

*
OS47091 360SC9505 MODULE - SECMODS SGGEN100 SGIEA2NP SGGBLPAK SGPAK248 SGPAK768

SECMODS CODED WITH SIZE-IH RESULTS IN MSG. IEISEC006 'STORAGE SIZE INVALID'.

*
OS47216 360SC5505 MODULE - IEFWA000

0C5 ABEND IN IEFWCIMP IF PARALLEL MOUNT AND VOL=REF TO A NON-SPECIFIC VOLUME REQUEST.

*
OS47317 360SC3535 MODULE - IECINT

PERFORMANCE PROBLEM: UNIT RECORD TRAP ROUTINE DOES NOT RECOGNIZE THE POSSIBILITY OF HAVE UNIT RECORD DEVICES ON A CHANNEL OTHER THAN CHANNEL 0.

*
OS47319 360SD1508 MODULE - IFG0551D

MSG IEC020I MAY HAVE INCORRECT UNIT ADDRESS AND VOLUME SERIAL NUMBER FOR MULTI-VOLUME ISAM OR BDAM DATA SETS OR CONCATENATED BPAM DATA SETS.

*
OS47330 360SIO526 MODULE - IGG0196G

DURING RESUME LOAD WITH SHARED TRACK, THE PROGRAM LOOPED IN MODULE IGG019GB BECAUSE ISLFBW WAS SET TO ZERO.

*
OS47331 360SIO526 MODULE - IGG0192C IGG0202A IGG02029

PROGRAM CHECK IN IGG0192C WHEN AN ISAM DATASET WITH DISP=SHR IS BEING OPENED. IGG0192C IS ATTEMPTING TO LOCATE ANOTHER ISAM DATA SET OPEN FOR SHR VIA THE TCB/DEB CHAINS. IF A TASK IS ROLLED OUT, IGG0192C CAN PICK UP A BAD POINTER DURING THIS SEARCH DUE TO ANOTHER TASK BEING ROLLED IN TO THE SAME AREA.

*
OS47333 360SD1508 MODULE - IFG0551D

AFTER AN I/O ERROR ON A DATA CELL EOV INCORRECTLY ASSUMES THAT THE UCBSKA FIELD STILL CONTAINS THE SEEK ADDRESS OF THE RECORD WHICH CAUSED THE ERROR. THE RESULTING MESSAGE IEC020I MAY THEN CONTAIN THE WRONG BIN NUMBER AND VOL SER.

*
OS47334 360SD1508 MODULE - IFG0190R IFG0552P

WITH DISPLAY DATA SET NAMES ACTIVE, END OF VOLUME MESSAGE 'IEC003E R' MAY INDICATE THE WRONG DATA SET NAME.

*
OS47334 360SD1508 MODULE - IFG0190R IFG0552P

WITH DISPLAY DATA SET NAMES ACTIVE, END OF VOLUME MESSAGE 'IEC003E R' MAY INDICATE THE WRONG DATA SET NAME.

*
OS47338 360SD1508 MODULE - IFG0552N

AFTER A REPLY OF 'M' TO MESSAGE IEC0007D E EOV INCORRECTLY ISSUES A MOUNT MESSAGE (IEC000A) THAT CONTAINS THE SAME VOLUME SERIAL NUMBER AS THE TAPE JUST REJECTED WHETHER IT WAS FOR A NON-SPECIFIC REQUEST OR A SPECIFIC REQUEST.

*
OS47350 360SC5505 MODULE - IEFVM4LS

CATALOGING UNOPENED TAPE GDG WITH 'FF4040404040'
VOLSER CAUSES ERRONEOUS MOUNT MSG FROM EOV DURING
GDG ALL PROCESSING. SEE ALSO RELATED PROBLEM IN OPEN
CATALOGING UNOPENED TAPE GDG WITH >'FF4040404040' VOLSER
CAUSES ERRONEOUS MOUNT MSG FROM EOV DURING GDG ALL
PROCESSING. SEE ALSO RELATED PROBLEM IN OPEN REFERENCED
BY APAR 45617.

*
OS47351 360SC6505 MODULE - NONE

I/O ERRORS WHILE 'FETCHING' FROM A 3330 OR 2305 DEVICE.

*
OS47354 360SUK506 MODULE - IBCDMPRS

IBCDMPRS WHILE DUMPING FROM A DASD (2314) TO ANOTHER
DASD, ON UNSOLLICATED INTERRUPT IS PICKED UP FROM ANOTHER
SPINDLE CAUSING THE CCW COMMAND CHAIN TO STOP TO SOON
CAUSING THE NEXT WRITE COMMAND TO RETURN TO THE FROM DEVICE.
DESTROYING THE INPUT PACK.

*
OS47361 360SC9505 MODULE - GENERATE

INCORRECT OUTPUT GENERATED FOR 3 STEPS.

*
OS47365 360SD1508 MODULE - IECDSECT IFG0554Z

THE DSCTRBAL FIELD IN THE OPEN/CLOSE/EOV WORK AREA
DSECT GENERATED BY MACRO IECDSECT IS TWO BYTES BEYOND
THE CORRECT FORMAT 1 DSCB OFFSET. THIS HAPPENS BECAUSE
THE LENGTH OF THE PRECEEDING FIELD, DSCLSTAR, IS 2
BYTES LONGER THAN THE 3 BYTE LENGTH DOCUMENTED IN THE
SYSTEM CONTROL BLOCKS MANUAL.

*
OS47372 360SD1508 MODULE - IFG0554V IFG0550P IECPDINI

AN E37 ABEND OCCURS AT END OF VOLUME FOR A DATA SET
WITH A DISPOSITION OF OLD WHEN THE NEXT VOLUME HAS THE
SAME DATA SET NAME AND THE DEB VOLUME SEQUENCE IS
GREATER THAN OR EQUAL TO THE DSCB VOLUME SEQUENCE
NUMBER. THE IMPLICATION OF AN E37 ABEND IS
'INSUFFICIENT VOLUMES.'

*
OS47382 360SD1508 MODULE - IFG0552H IFG0553H IFG0551V
IFG0552Z IFG0550P IECPDINI IFG0552V

WHEN TAPE INPUT OR OUTPUT FUNCTION OF END OF VOLUME
FINDS A SUBSEQUENT VOLUME SERIAL IS ALREADY MOUNTED,
IT USES IT EVEN IF IT IS BEING USED FOR ANOTHER DATASET.

*
OS47408 360SRC551 MODULE - IHKMUF

AFTER AN ERROR IS ENCOUNTERED IN TRYING TO MERGE A DATA
SET FROM A USER'S LIBRARY INTO THE ACTIVE FILE,
IHKMUF ATTEMPT AN RREAD TO A CLOSED DCB AFTER ENQUING
THE ERROR MESSAGE.

*
OS47418 360SD2508 MODULE - IGG019AB

FORTRAN VB RECORDS WRITTEN WITH BSAM MAY PRODUCE
RECORDS WITH ZERO-LENGTH DATA I.E., END OF RECORDS
OR CARRIAGE CONTROL CHARACTER ONLY. PROGRAM RAN ON
19 -- GETS 002 ON 20.1. TRYING TO READ DATA SET
USING QSAM GET, LOCATE.

*
OS47465 360SC5505 MODULE - IEFXJIMP

CANCELLING A JOB IN PARTITION 0 THAT IS WAITING FOR
AN AVR MOUNT AND HAS PREVIOUSLY BEEN WAITING FOR DEVICES
CANCELLING A JOB IN PARTITION 0 THAT IS WAITING FOR
AN AVR MOUNT AND HAS PREVIOUSLY BEEN WAITING FOR DEVICES
OR VOLUMES, WILL CAUSE AN 0C5 ABEND IN MODULE IEFXJIMP.

*
OS47520 360SLM537 MODULE - IFFAHA04

INCORRECT DISPLAY AND LOSS OF PICTURE CONTROL CAN OCCUR
AFTER GRAPHIC DATA SETS USING INCREMENTAL ORDERS HAVE BEEN
INCLUDED OR OMITTED.

*
OS47527 360SC9505 MODULE - GENERATE

MISSING MODULES IN I/O GEN WHEN INCLUDING
3330 SUPPORT.

*
OS47711 360SD2508 MODULE - IGC0706H

SYNADAF (FOR TAPE) RETURNS 'EQUIPMENT CHECK'
WHEN THE ERROR AS SHOWN WAS A DATA CHECK.

*
OS47713 360SD2508 MODULE - IGG0191B

WHEN FS OR FBS DATA SET IS OPENED FOR DISP=MOD (ALLOWED ONLY IF LAST BLOCK NOT TRUNCATED), THE 1ST WRITE REQUEST RESULTS IN SVC 25 TO ESTABLISH CORRECT TRACK BALANCE. SPECIAL CALCULATIONS IN THIS ROUTINE ASSUME THE BLKSIZE HAS ALREADY BEEN INITIALIZED IN THE DEB. BECAUSE IT HASN'T THE TEST FAILS AND THE SPECIAL TRK BAL CALCULATIONS FOR STANDARD RECORDS IS NOT DONE.

*
OS47725 360SC9505 MODULE - GENERATE

2955 MODULES MISSING ON AN I/O GEN.

*
OS47745 360SD7508 MODULE - IGC0S05B

IF A DATA CHECK IS ENCOUNTERED WHILE REPOSITIONING TAPES FOR CHECKPOINT/RESTART, RESTART IMMEDIATELY FREES A WORKAREA CONTAINING DEB'S AND IOB'S FOR I/O WHICH IS STILL GOING ON. ON THE NEXT I/O INTERRUPT FOR ONE OF THOSE DEB'S, AN 0F1 ABEND OCCURS.

*
OS47754 360SCA535 MODULE - IEC23XXF

TRK OVF. 3330 CORRECTABLE DATA CHECK NOT HANDLED PROPERLY. WITHOUT COMMAND CHAINING, THE SEEK ADDRESS IS NOT INCREMENTED, AND THE RESIDUAL COUNT IS NOT SET PROPERLY.

*
OS47767 360SD2508 MODULE - IGG019BC

USE OF POINT ON RPS DEVICES RESULTS IN A CMD REJECT ON A SET SECTOR COMMAND.

*
OS47776 360SD1508 MODULE - IFG0551H

WHEN TRYING TO OPEN AN INPUT DCB FOR DIRECT ACCESS EXCP, END OF VOLUME ERRONEOUSLY BRANCHES TO THE REPOSITIONING MODULE RESULTING IN 0C5 ABEND.

*
OS47788 360SD1508 MODULE - IFG0194H IFG0551X IFG0552Z
IGG0199C IGG0550X IGG0550P

USING DEFER MOUNTING A 413 ABEND OCCURS IN IGG0199C BECAUSE CHANNEL PROGRAM FOR REWIND PRIOR TO READING VOLUME LABEL IS INTERCEPTED DUE TO PRIOR ERROR (ECB POSTED X'44'). SIMILAR CONDITION MAY OCCUR IN EOV TAPE IN AND TAPE OUT WHERE A REWIND IS ISSUED BEFORE THE VOLUME LABEL IS READ.

*
OS47795 360SD1508 MODULE - IFG0190R IFG0194G IFG0194H
IFG0551V IFG0551X IFG0552P IFG0552Z

A TAPE VOLUME MOUNT MESSAGE MAY BE LEFT ON AN MCS CATODE RAY TUBE OPERATOR CONSOLE IF THE JOB IS TERMINATED WHILE OPEN OR EOV IS WAITING FOR THE VOLUME TO BE READIED.

*
OS47799 360SCB505 MODULE - IGE0000G

WTR CLOSED DURING RESTART AFTER EQUIPMENT CHECK.

*
OS47828 360SC6505 MODULE - IEWFTPCI

ABEND0F1 OCCURS IN FETCH CHANNEL END APPENDAGE DUE TO PROGRAM CHECK WHEN IEWFTPCI ENCOUNTERS ACR ERROR FROM 3330 OR 2305.

*
OS47863 360SC5535 MODULE - IEFXT003

MODULE IEFXT003 LOOPS OVERLAYING CORE IF IT IS ENTERED THE FIRST TIME WITH A SPACE FAILURE ON A SEPARATION VIOLATOR.

*
OS47928 360SRC551 MODULE - IHKIRL

USER PUT EXCESSIVE OPERANDS ON DELETE SUBCOMMAND. WHEN BUILDING ERROR MESSAGE PARAMETER LIST FOR IHKMSG01, IHKIRL WAS INITIALIZING THE MESSAGE INSERT POINTER AS A ZERO RATHER THAN A POINTER TO ZERO.

*
OS47964 360SRC551 MODULE - CRJETABL

MSGRC PARAMETER OF CRJETABL MACRO EXPANDS INCORRECTLY SRL GC30-2016 STATES THAT A DECIMAL VALUE SHOULD BE SPECIFIED FOR THIS PARAMETER. CRJETABL GENERATES A HEX CONSTANT WITH THE INTEGER SPECIFIED.

*
OS48088 360SIO523 MODULE - IGE0010D

LOOP IN IGE0010D DUE INCORRECT BRANCH AFTER TEST FOR
PGMCHK OR PROTECTION CHECK

*
OS48109 360SC9505 MODULE - GENERATE

LINKNAME SUBPARM OF GENERATE MACRO
DOES NOT CHECK FOR VALID PARMS.
LINKNAME SUBPARM OF GENERATE MACRO DOES NOT CHECK FOR
VALID PARMS.

*
OS48172 360SD4508 MODULE - IGG03001 IGG0325A IGG0553A
IGC0002G IGG0290A IGG032I8

IF THE FORMAT 4 DSCB FIELD DS4HPCHR (HIGH WATER MARK)
POINTS TO THE LAST RECORD ON A TRACK THEN A SEARCH FOR
A FORMAT 1 DSCB NOT IN THE VTOC CAUSES THE 'NO RECORD
FOUND' SENSE BYTE BIT TO BE SET IF 3330 PACK IS IN USE.

*
OS48173 360SIO526 MODULE - IGG019IZ

VLR-BISAM AFTER WRITE KN'S, DCBNREC MAY BE TOO
HIGH, DCB NREC MAY NOT BE DECREMENTED BY NUMBER
OF NEW OVERFLOW RECORDS DURING A WRITE KN.

*
OS48174 360SCB505 MODULE - IGE0000E

DATA CHECK ON 2501 CAUSES 0C1 IN IGE0000E
DUE TO BAD INTERPRETER TAB.

*
OS48181 360SD1508 MODULE - IFG0551T IFG0553P

END-OF-VOLUME ISSUES DEMOUNT MESSAGES FOR TAPES
WHICH ARE REQUIRED LATER IN THE STEP; THE OPERATOR
THUS BELIEVES THAT THE TAPE MAY BE USED AS A SCRATCH
TAPE, RESULTING IN DATA BEING SUBSEQUENTLY OVERWRITTEN.

*
OS48201 360SD2508 MODULE - IGG019CB

IGG019CB IS SETTING THE WRONG BIT ON IN THE IOB
FOR CNTRL.

*
OS48213 360SD1508 MODULE - IGC0005E

IN IGC0005E A TEST FOR RPS DEVICES IS MADE TESTING
A CCW THAT MAY NOT EXIST FOR A SHORT IOB.
IN IGC0005E A TEST FOR RPS DEVICES IS MADE TESTING
A CCW THAT MAY NOT EXIST FOR A SHORT IOB.

*
OS48227 360SIO526 MODULE - IGG019HG

I/O ERRORS NOT DETECTED ON 3330 SCAN MODE. RESULTS
IN LOST COPIES OF CP22 AND SUBSEQUENT PROGRAM CHECKS
IN IGG019HB OR IGG019HN.

*
OS48228 360SD2508 MODULE - IGG0201Z

USING A SINGLE DECB FOR 2 DCBS CAUSES PROBLEMS
WHEN CLOSING DATA SET FOR BDAM CREATE WITH FIXED
RECORDS. CLOSE BRANCHES BACK TO WRITE TO WRITE OUT
CAPACITY RECORD, USING THE DECB POINTED TO BY THE
IOB IN THE DCB. THIS DECB MADE BE FREED OR AS IN
THIS CASE, MAY BE REUSED FOR ANOTHER DCB, HENCE-
AS IN THIS CASE THE DCB IN THE DECB, WHICH IS LOADED
BY WRITE MAY POINT TO THE WRONG DCB.

*
OS48235 360SD7508 MODULE - IGC0K05B

TAPE MOUNT AND TAPE FILE PROTECTION MESSAGES ARE
NOT ROUTED TO THE TAPE MOUNT CONSOLE BECAUSE MODULE
IGC0K05B SETS UP ROUTE AND DESCRIPTOR CODES INCORRECTLY.

*
OS48492 360SCC505 MODULE - IGC0109A

FIRST TWO FULLWORDS OF 2305 TPR RECORD ZEROED.

*
OS48519 360SIO526 MODULE - IGG019HB IGG019HN

ESETL DOESN'T WAIT ON OUTPUT OF PUTX'D
BUFFERS, MAY INTERRACT WITH WRITE KN.

*
OS48529 360SIO526 MODULE - IGG0202J

0C5 ABEND IN IGG0202J ON RESUME LOAD CLOSE
WHEN NO RECORDS WERE ADDED TO DATA SET.

*
OS48540 360SIO526 MODULE - IGG019J3

UNREACHABLE BLOCK AFTER TRYING TO ADD A RECORD TO
THE END OF A DATA SET WITH HI LEVEL INDEXES IN CORE.

*
OS48556 360SD1508 MODULE - IFG0194H IFG0193D

OPEN ACCEPTS AN HL INPUT TAPE THAT CAN NOT BE READ IF
THE 'NOT COMPATIBLE' BIT IN SENSE BYTE 1 IS NOT SET ALONG
WITH THE DATA CHECK. THIS CAN OCCUR WHEN MOUNTING A
1600 BPI TAPE ONA 2400 DRIVE MODEL 1-3 (800 BPI NRZI
ONLY), WHICH NEVER USES THE 'NOT COMPATIBLE' BIT, OR
BY MOUNTING A 7 TRACK TAPE ON A 9 TRACK DRIVE/ THIS
PROBLEM OCCURS IN IGG0199C. IF A DATA CHECK OCCURS IN
ATTEMPTING TO READ THE VOLUME LABEL WHEN OPENING FOR
OUTPUT FOR AN NL REQUEST, A SECOND DATA CHECK WILL
OCCUR WHEN THE IBM SUPPLIED OMODVOL1 IS USED, AS OMODVOL1
PROCESSING ALSO ATTEMPTS TO READ THE LABEL.

*
OS48560 360SIO526 MODULE - IGG019IO IGG019IZ IGG019IY

WHN VARIABLE LENGTH RECORDS CAUSES
PRIME DATA RECORDS TO BE LOST.

*
OS48584 360SD1508 MODULE - IFG0196W

WHEN AN ISAM DATA SET IS OPENED FOR OUTPUT OR UPDAT,
WITH A MACRF OTHER THAN QISAM LOAD MODE (MACRF=PM OR PL)
OPEN MERGES JFCB INFORMATION TO THE DSCB, CHANGING THE
DATA SET CHARACTERISTICS. IN PARTICULAR, SUPPLYING AN
INCORRECT RKP AND KEYLEN CAUSES MULTIPLE PROBLEMS IN-
CLUDING UNREACHABLE BLOCKS AND PROGRAM CHECKS.

*
OS48589 360SU1506 MODULE - IEHMVSRX

IEHMVSRX SPECIFIES SUL IN THE JFCB FOR THE NEW DATASET.
ALSO IF THE SOURCE, DATASET HAS STANDARD LABELS.
THIS CAUSES THE ALLOCATION OF AN EXTRA USER LABEL
TRACK ON A SECOND VOLUME FOR THE NEW DATASET.

*
OS48604 360SD1508 MODULE - IGC0003A

WHEN FEOV IS ISSUED WITH AN INVALID DCB POINTER
AN ERRONEOUS PURGE IS EXECUTED BY END OF VOLUME.

*
OS48612 360SD6508 MODULE - IGG0197C IGG0197D IGG0201D

ABEND 80A CORE FOR BUFFER SPACE AND USE CODE FOR
LOAD MODULES NOT RELEASED AND DELETED BY CLOSE
EXECUTOR.

*
OS48615 360SD2508 MODULE - IGG0196B

ABEND 0C5. CORE OVERLAYED BECAUSE BUFFERS NOT
OBTAINED BY OPEN EXECUTORS.

*
OS48623 360SCB535 MODULE - IGE0000E

PGM CHECK IN IGE0000E DURING QSAM RETRY.

*
OS48629 360SD2508 MODULE - IGG019AW

LOOP BETWEEN IOS AND END OF EXTENT APPENDAGE
WHEN SPACE ALLOCATED FOR DATA SET: SPACE = (TRK,
(0,,2)).

*
OS48649 360SD1508 MODULE - IGG0200Z

USER CAN DESTROY SYSTEM DATA SETS BY OPENING FOR
INPUT AND SETTING DCBOFLGS WRITE BIT (0) TO ONE
PRIOR TO CLOSE.

*
OS48653 360SC3535 MODULE - IECXCP IECIOS

ALL RQES ARE ALLOCATED TO ONE DEVICE AND THAT
DEVICE IS UNDERGOING ERROR RECOVERY. THE SYSTEM
ERROR TASK NEEDS AN RQE TO CONTINUE, BUT THE LAST
RQE IS RESERVED FOR SVCLIB.

*
OS48658 360SD1508 MODULE - IFG0195A IFG0195K IFG0196W

BFALN IS BEING MERGED FROM REL 17 AND 18 MAGNETIC
TAPES (HDR2 LABEL, FL2CNTRL+1 FIELD) INTO THE DCB.
THIS IS NOT DOCUMENTED AND CAN CAUSE INCORRECT
LENGTH FOR FREEPOOL.

*
OS48664 360SIO526 MODULE - IGG019GY

SVC EXCP IS ISSUED WHEN MODULE IS DISABLED. IF
THERE ARE NO 'RQE'S', AND NO I/O IS ALLOWED TO COMPLETE
TO FREE ANY RQES DUE TO BEING DISABLED,THE PSW IS BACKED
UP TO REISSUE THE EXCP RESULTING IN A DISABLED LOOP.

*
OS48732 360SU8506 MODULE - IEBPPCHI IEBPPMSG

WITH MSG IEB417I DATA SET EMPTY ALSO A RETURN CODE OF
12 IS GIVEN. THIS IS A TOO HIGH RETURN CODE BECAUSE
IEBPTPCH PERFORMS THE REQUESTED OPERATION CORRECT.
A WARNING MESSAGE CORRESPONDING WITH A RETURN CODE
OF 4, WOULD BE ENOUGH.

*
OS48737 360SU2506 MODULE - IEBUPDT2

WHEN INPUT DATA SET CONTAINS A BLANK CARD AS LAST CARD
THIS BLANK CARD IS PRINTED (SEEN AS SPACING) AND MSG
IEB806I IS PRINTED. THIS MESSAGE DOES NOT DESCRIBE THIS
SITUATION.

*
OS48742 360SU3506 MODULE - IEBSCN

WHEN IEBCOPY IS FLUSHING THROUGH IT'S CONTROL STATEMENTS IT
SCANS EACH CARD FOR A VALID IEBCOPY CONTROL COMMAND TO
FIND THE NEXT COPY CONTROL STATEMENT. IT EVEN EXPECTS
VALID COMMANDS ON THE CONTINUATION CARDS AND ISSUES THEM
UNJUSTIFIED ERROR MESSAGES LIKE IEB105I, IEB116I AND
IEB104I WHERE IT DOES NOT FIND THEM.

*
OS48747 360SU0506 MODULE - IEBDGCUP

WHEN USING TEN OR MORE FD STATEMENTS THE NAME IN THE
TENTH (OR FOLLOWING) FD STATEMENT WITH THE INPUT KEYWORD
IS INCORRECTLY FLAGGED AS AN ERROR (MSG'S IEB727 AND IEB707)
WHEN THIS NAME HAS BEEN USED ALREADY IN THE NINTH OR
FOLLOWING FD STATEMENT WITH THE INPUT KEYWORD
IN A PREVIOUS SET OF UTILITY CONTROL STATEMENTS.

*
OS48750 360SU2506 MODULE - IEBUPXIT

UPDATING A DATA SET WITH IEBUPDTE WITH
RECFM=U BLKSIZE=1600, AND LRECL=80 THE DATA
SET IS TREATED AS FB, BUT WHEN THE LAST
BLOCK WAS A SHORT BLOCK, ONLY 1 RECORD
OF LAST BLOCK WAS PROCESSED.

*
OS48753 360SU3506 MODULE - IEBMCM

IEBCOPY, COMPRESSING A PDS IN PLACE WHERE A MEMBER WITH
ALIASES IS FOUND ON THE SAME TRACK WHERE THE FIRST ZAP
OF THE PDS RESIDES, DIDN'T UPDATE HIS TRACK BALANCE
CALCULATIONS CORRECTLY RESULTING IN NO RECORD FOUND
CALCULATIONS CORRECTLY RESULTING IN NO RECORD FOUND
CONDITIONS OR IN WIDENING ZAP.

*
OS48756 360SU6506 MODULE - IEBISC,

A. MSG IEB602I FOLLOWED BY A 0C4 ABEND OCCURS WHEN USING
IEBISAM TO COPY A FIXED BLOCKED ISAM DATA SET WITH RKP=0,
AND ONLY THE RECORD FORMAT IS CHANGED FROM FIXED UNBLOCKED
TO FIXED BLOCKED.
B. WHEN COPYING A VARIABLE BLOCKED DATA SET, A WRONG
BLOCKED OUTPUT DATA SET IS CREATED. THIS IS THE SAME
PROBLEM AS DESCRIBED IN APART 45167.
C. A C03 ABEND OCCURS WHEN LOADING A DATA SET AND THE
OUTPUT DATA SET COULD NOT BE OPENED, OR HAS INCORRECT
DCB VALUES.
D. WHEN COPYING AN ISAM DATA SET WITH RECFM=F,RKP=0
A CHECK IS MADE FOR VALID RKP. IN THIS CASE THIS CHECK IS
INVALID AND CAN GIVE MSG IEB601I ALTHOUGH THE DCB VALUES
ARE CORRECT.
E. WHEN THE OUTPUT DATA SET HAS CONFLICTING DCB PARAMETERS,
MSGIEB601I MUST BE PRINTED. HOWEVER RESULTS ARE UNPREDIC-
TABLE.

*
OS48757 360SU1506 MODULE - IEHMVESZ

IEHMOVE OPENS VTOC USING OPEN-J
WITHOUT SETTING THE 'DON'T WRITE
BACK' BIT IN THE JFCB. THIS MAKES THE
VTOC AVAILABLE DURING THE JOB STEP WHEN
IEHMOVE IS ATTACHED OR USED UNDER TSO.

*
OS48762 360SU3506 MODULE - IEBVTM

IEBCOPY ISSUED MSG IEB177I
"MEMBERNAME WAS SELECTED BUT NOT
FOUND ON ANY INPUT DATA SET.
BUT LEFT THE RETURN CODE UNCHANGED.

*
OS48773 360SU0506 MODULE - IEBDGCUP

WHEN MORE THAN ONE INPUT DATA SET IS USED AND
ONE OF THE INPUT DATA SETS CANNOT BEOPENED
DURING CLOSE A FREEMAIN IS DONE ALSO FOR THAT
NOT OPENED DATA SET GIVING 0C6 ABEND.

*
OS48776 360SU1506 MODULE - IEHMVSTA

IEHMVSTA TRIES TO CATALOG EACH DATASET NAME IT ENCOUNTERS
IF THIS CATALOG FAILS DYE TO THE FACT THAT ONE OF
THE QUALIFIERS DOES NOT EXIST (RETURN CODE 16 FROM CATALOG)
AN ATTEMPT IS MADE TO BUILD THE NAME QUALIFIER BY QUALIFIER
(USING THE BLDX MACRO). HOWEVER, THIS PROCESS IS STARTED
EVERY TIME WITH THE VERY FIRST QUALIFIER OF THE NAME.
GDG INDEX NAMES ARE ALWAYS BUILT USING THIS TECHNIQUE.

*
OS48777 360SU1506 MODULE - IEHMVESK

IEHMVESK FAILS TO SCRATCH **SYSUT3 WHEN CALLED FROM A USER
PROGRAM MORE THAN ONCE. THIS IS DUE TO THE FACT THAT THE
DSNAMEFIELD USED FOR THE SCRATCH MACRO IS NOT INIALIZED
PROPERLY ALTHOUGH THE MODULE IS SUPPOSED TO BE REUSABLE.
THE ULTIMATE RESULT IS MESSAGE IEH381I ERROR ENCOUNTERED
WHILE SCRATCHING WORKFILES, ACCOMPANIED BY A RETURN CODE
OF 8.

*
OS48781 360SU1506 MODULE - IEHMVEST IEHMVESA

IEHMOVES RENAME WITH HYPHEN IN THE NEW NAME
CAUSES MESSAGE IEH390I.

*
OS48782 360SU1506 MODULE - IEHMVESQ

THE VOLUME LIST PASSED TO THE SCRATCH MACRO IN IEHMVESQ
HAS ENTRIES OF 17 BYTES I.S.O. 12 BYTES, CAUSING 0C6
IN SCRATCH MACRO.

*
OS48796 360SU8506 MODULE - IEBPPCHI

A RECORD PRINTED WHEN USING EXIT ROUTINE OUTREC
EVEN WHEN THE RETURN CODE IS ZERO.

*
OS48797 360SU1506 MODULE - IEHMVESM

COPYING AN ALIAS OF A PDS WITH VARIABLE LENGTH RECORDS
TO A PREALLOCATED PDS WITH DIFFERENT BLOCKSIZE
A 30A ABEND OCCURS.

*
OS48799 360SU3506 MODULE - IEBSCN

WHEN IEBCOPY SCANNING IT'S UTILITY CONTROL
STATEMENT AND EXPECTS THE CHARACTERS >R)>, IT DOES NOT
CHECK IF COLUMN 71 IS REACHED WITH THE >R>.

*
OS48800 360SU3506 MODULE - IEBSCN

FLUSHED CARDS WERE NOT PRINTED OUT ON LISTING.

*
OS48806 360SU3506 MODULE - IEBVTM

NO FREEPOOL IS DONE AFTER CLOSING SYSPRINT AND SYSIN.

*
OS48809 360SU4506 MODULE - IEBGEN03 IEBGENS3

WHEN USING THE IO ERROR EXIT AND THE USER
RETURN CODE IS ZERO, IEBGENER ABENDS (0C1)
BECAUSE A REGISTER SAVE AREA IS USED (INCORRECTLY).
WHEN USING THE IO ERROR EXIT AND THE USER
RETURN CODE IS ZERO, IEBGENER ABENDS (0C1)
BECAUSE A REGISTER SAVE AREA IS USED (INCORRECTLY).
SO RETURN IS GIVEN WITH REGISTER 13 POINTING
TO WRONG INFORMATION.

*
OS48812 360SU1506 MODULE - IEHMVETJ

IEHMOVE DOESN'T UPDATE AN NOTELIST IF THE TTRX POINTERS
ARE NOT ASCENDING SEQUENCE.

*
OS48817 360SUC506 MODULE - IEBCMAIN IEBCOMPM

ABEND 60A OCCURS WHEN MEMBERS ARE COMPARED WHICH
WERE ORIGINALLY ALIAS NAMES

*
OS48819 360SU2506 MODULE - IEBUPXIT

WRONG RETURN CODE WHEN SYMOD EXIT FOR SYSPRINT
IS TAKEN.

*
OS48921 360SD2508 MODULE - IGG0191A

013 ABEND OCCURS WHEN BLOCKSIZE ADJUSTMENT FEATURE IS USED ON RELEASE 20.1 MVT

*
OS49183 360SC3535 MODULE - IECIOSB

VARIOUS SYSTEM PROBLEMS OCCUR WHEN DDR GOES TO IOS TO DEQUEUE REGISTER 7 WHICH POINTS TO THE UCB IS LOADED FROM REG 0 WHERE THE UCB ADDRESS IS NORMALLY SAVED.

*
OS49315 360SDM509 MODULE - IGG019KF

CONVERSION OF BLK ID TO TTR FOR BDAM TRK OVER FLOW IS CALCULATED WRONG WHEN RECORD CROSSES MORE THAN 2 TRACKS OF 3330, BECAUSE OVERHEAD REQUIRED FOR 3330 IS NOT ADDED IN FOR INTERMEDIARY SEGMENTS.

*
OS49319 360SD2508 MODULE - IGG019C4

WHEN OPTCD=Z AND RECFM=FB ARE SPECIFIED IN THE DCB AND THE DATA SET IS ONLY ONE BLOCK LONG, EOF OCCURS AFTER THE FIRST RECORD IS READ.

*
OS49333 360SD2508 MODULE - IGG019BC

001 ABEND WILL OCCUR IF TRYING TO REPOSITION WITH POINT ON A FBS DATA SET

*
OS49351 360SD4508 MODULE - IGC00030 IGC0002I IGC0003B IGC0007H IGG03001 IGG0290D IGG0325Y IGG03002 IGC0002G IGG03217 IGC0107H IGG03003

RENAME SVC RESULTS IN ANE04 ABEND OR WAIT DUE TO SQS NOT HAVING AVAILABLE STORAGE.

*
OS49351 360SD4508 MODULE - IGC00030 IGC0002I IGC0003B IGC0007H IGG03001 IGG0290D IGG0325Y IGG03002 IGC0002G IGG03217 IGC0107H IGG03003

RENAME SVC RESULTS IN ANE04 ABEND OR WAIT DUE TO SQS NOT HAVING AVAILABLE STORAGE.

*
OS49370 360SDM509 MODULE - IGC0005G

WAIT STATE RESULTS IN BDAM WITH DYNAMIC BUFFERING WHEN FREEDBUF IS ISSUED AGAINST DECB FOR WHICH NO IOB OR DATA ADDRESS WAS ASSIGNED. THIS OCCURS WHEN I/O REQ IS INVALID, HENCE NO BUFFER IS ASSIGNED. FREEDBUF AND DYN BUF MOD ASSUME DATA ADDR EXISTS AND STORES ZEROES AS 'NEXT AVAILABLE BUFFER' IN BUFFER CONTROL BLOCK. ALL REQUEST THEREAFTER WAIT.

*
OS49373 360SC3505 MODULE - IECXCP IECINT

LOW CORE IS BEING OVERLAYED WITH CCHHR IN 2 4 BYTE SECTION. SITUATION OCCURS DURING ERROR RECOVERY ON SHARED DASD (2311,2314,2321) WHEN THE UCB WORK AREA EXCEED 2 BYTE ADDRESSING.

*
OS49379 360SD1508 MODULE - IGC0005E

WITH BSAM, CHAINED-SCHEDULING, SECOND ENTRY TO EOV (RETURN FROM SYNAD ROUTINE - ACCEPTING THE ERROR) DCBIFLGS-ERROR BITS ARE NOT TURNED OFF RESULTING IN THE DECB NOT BEING POSTED AND A WAIT OCCURS.

*
OS49380 360SC3505 MODULE - IECXCP

USER ABENDS IF SVC 0 IS CALLED VIA AN EXECUTE INSTRUCTION AND NO RQES ARE AVAILABLE.

*
OS49383 360SD4508 MODULE - IGG029R1

IGG029R1 USES REGISTER 15 AS A BASE REGISTER BUT FAILS TO SAVE IT AROUND A FREEMAIN.

*
OS49403 360SIO526 MODULE - IGG019G8 IGG019G9 IGG019I9 IGG019G0 IGG019G1 IGG019G2 IGG019G3 IGG019G4 IGG019G5 IGG019G6 IGG019G7 IGG019IO

BISAM APPENDAGES DO NOT CLEAR THE HIGH ORDER BYTE OF THE START CHANNEL PROGRAM ADDRESS. THE COMPARE FAILS BECAUSE OF THE HIGH ORDER BYTE CAUSING A FALLACIOUS UNREACHABLE BLOCK CONDITION.

*
OS49418 360SD2508 MODULE - IGGR19CI

CRJE AUTO COMPRESS FAILS ON RPS DEVICES.

*
OS49434 360SUK506 MODULE - IEHDGETA

IN DETERMINING TRACK VALIDITY A CHECK OF THE CCH IS DONE BYTE BY BYTE AS IS NEEDED FOR OTHER DEVICES, THE CYLINDER ADDRESS FOR 3330 EXTENDS BEYOND ONE BYTE. RESULT IS IEH822I MSG.

*
OS49437 360SC3505 MODULE - IECIPR IECIPR12

IECIPR12 (IGC0001F) ON A 'PURGE WITH QUIESCE' OPTION WILL EXIT WITH AN OUTSTANDING ENQ WHEN THE TCB IS MARKED 'ABNORMAL TERMINATION IN PROGRESS' OR WHEN A MIS-MATCH IN A TEST ON TCB PROTECT KEYS IS FOUND.

*
OS49437 360SC3505 MODULE - IECIPR IECIPR12

IECIPR12 (IGC0001F) ON A 'PURGE WITH QUIESCE' OPTION WILL EXIT WITH AN OUTSTANDING ENQ WHEN THE TCB IS MARKED 'ABNORMAL TERMINATION IN PROGRESS' OR WHEN A MIS-MATCH IN A TEST ON TCB PROTECT KEYS IS FOUND.

*
OS49438 360SDM509 MODULE - IGG0193E

PERIOD CALCULATION FOR TRK OVERFLOW 3330 NOT CALCULATED CORRECTLY. NEGLECT TO ACCOUNT FOR OVER-HEAD OF MIDDLE SEGMENT WHEN RECORD CROSSES THREE TRACKS.

*
OS49456 360SCB535 MODULE - IGE0000F IGE0100F

INCORRECT TYPE T RECORDS GENERATED BY ERP.

*
OS49466 360SIO526 MODULE - IGG01922 IGG01950 IGG0196C
IGG0196D IGG0195G DCBD IECSDSL1
SGIEC5IS

AN 80A ABEND MAY OCCUR BECAUSE IGG0196D DOES NOT FREE CORE GOTTEN FOR CP 31A AND CP31B.

*
OS49555 360SRC551 MODULE - IHKCC5

CENOUT COMMAND PROCESSOR. IHKCC5 WAS INCORRECTLY CHECKING FOR END OF DSB CHAIN CAUSING INVALID REQUEST TO BE PASSED TO IHIPMSSS.

*
OS49657 360SC5505 MODULE - IEFWA000

NON-SHARABLE REQUESTS FOR MULTI-VOLUME DISK FILES DO NOT WAIT FOR THE VOLUMES IN USE TO BE RELEASED. THIS CAN CAUSE MOUNT MESSAGES FOR VOLUMES ALREADY MOUNTED TO ASK FOR THE VOLUMES ON DIFFERENT UNITS.

*
OS49664 360SC9505 MODULE - IODEVICE

UNSUPPORTED DEV TYPE CODE GEN'ED FOR 7770

*
OS49669 360SCQ513 MODULE - IGE0504C

BTAM SPECIAL RETURN MODULE (IGE0504C) DOES NOT POST OPERATION COMPLETE WHEN EOT RECEIVED IN RECOVERY FROM DATA CHECK ON READ TEXT.

*
OS49670 360SCQ513 MODULE - IGE0504A

BTAM START-STOP ERP POST MODULE, IGE0504A, POSTS UNUSED BUFFER WITH LINK FIELD AS POINTER TO NEXT BUFFER. THIS LINK FIELD CAN CONTAIN RB ADDRESS IF USER HAS ISSUED WAIT.

*
OS49677 360SCQ513 MODULE - IGE0604C

BTAM BSC ERP DOES NOT RETRY LOST DATA ERRORS ON A READ RESPONSE TO ADDRESSING CCW.

*
OS49679 360SCQ513 MODULE - IGG019MR

READ SIDE ON CPU-CPU OLT FAILS TO GENERATE WRITE ACK ON TEST X=00 ON LAST BLOCK OF TEXT RECEIVED.

*
OS49681 360SCQ513 MODULE - IGG019MB

CHANNEL END APPENDAGE CAUSES BSC CPU-CPU ONLINE TEST CASE TO END ABNORMALLY BECAUSE IT FAILS TO CHECK IF BSC ONLINE TEST MACRO WAS ISSUED.

*
OS49683 360SCQ513 MODULE - IGE0904C

BISYNC ERROR RECOVERY FAILS TO RETRY ENQ. RESPONSE TO WRITE INITIAL.

*
OS49688 360SCQ513 MODULE - IGG019MB

AFTER ABNORMAL COMPLETION OF AUTOPOLL CCW, DECPOLPT OF DECB CONTAINS INDEX FOR FIRST ENTRY, RATHER THAN CURRENT ENTRY, ON START-STOP.

*
OS49689 360SCQ513 MODULE - IGG019MC

ON WRITE MACRO WITH DYNAMIC BUFFERING AND MORE THAN ONE OUTPUT BUFFER, READ RESPONSE IS NOT CHAINED FROM WRITE DATA CCW%S.

*
OS49690 360SCQ513 MODULE - SGIHB000

FIX FOR APAR 46845 CAUSED PROBLEM BY PURGING RQE ON H10 CC=1.

*
OS49692 360SCQ513 MODULE - IGG019M0

THERE IS NO ADDRESS OF DATA IN WRITE BREAK CCW, CAUSING LOCATION 0 TO BE USED CAUSING DATA CHECKS TO OCCUR ON CERTAIN HARDWARE.

*
OS49693 360SCQ513 MODULE - RESETPL

RESETPL TURNS OFF ERP FLAGS AND EXISTS WHEN ERP IS DOING READ SKIP. WHEN INTERRUPT COMES IN, CHANNEL END TAKES READ SKIP AS FINAL CCW, POSTING ENDING CONDITIONS ACCORDINGLY.

*
OS49697 360SCQ513 MODULE - DFTRMLST

DFTRMLST MACRO CAUSES ASSEMBLY ERRORS WHEN DIALST IS SPECIFIED.

*
OS49801 360SD2508 MODULE - IGG019CH IGG019CZ IGG019C4

THE END-OF-EXTENT APPENDAGE CLEARS THE HIGH-ORDER BYTE OF THE IOB RESTART CHANNEL PROGRAM ADDRESS. THIS CAUSES THE SYSTEM TO LOOP.

*
OS49881 360SC5505 MODULE - IEESMF8C

SMF RECORDING LIST IN THE FOLLOWING SITUATION 1.) SMF DETERMINES THAT A RECORD IS TOO LARGE FOR THE BUFFER, 2.) ALL SEGMENTS OF THE RECORD DO NOT FIT IN THE CURRENT SYS1.MAN DATA SET, AND 3.) IT IS FOUND THAT THE OTHER DATA SET IS FULL ALSO.

*
OS49897 360SU9506 MODULE - IEHINITT

IEHINITT LABELS ALL 7 TRACK TAPES AT DEN=0.

*
OS49898 360SCC535 MODULE - IGC0009A

SVC 91 FORMATS VOLUME DISMOUNT RECORDS IN EBCDIC.

*
OS49899 360SU9506 MODULE - IEHINITT

NO BLANK BEFORE UNIT ADDR IN MSG IEH606I.

*
OS49961 360SD1508 MODULE - IGG0200Z

CLOSE ISSUES A PURGE WITHOUT THE POST OPTION. ON AN ISAM DATA SETJOB GOES INTO WAIT STATE.

*
OS49961 360SD1508 MODULE - IGG0200Z

CLOSE ISSUES A PURGE WITHOUT THE POST OPTION. ON AN ISAM DATA SETJOB GOES INTO WAIT STATE.

*
OS49989 360SC5535 MODULE - IEFWCIMP

0C6 ABENDS IN IEFWCIMP (IEFWC002) WHILE PROCESSING VOLUME AFFINITY BECAUSE REG 3 AND REG 2 ARE BAD.

*
OS50114 360SC5505 MODULE - IEFSD305

IF A SYSTEM CRASH OCCURS DURING EXECUTION OF A JOBSTEP IMMEDIATELY FOLLOWING A STEP WHICH DIDN'T EXECUTE BECAUSE OF STEP CONDITION CODES, MESSAGE IEF421I JOBNAME STEPNAME (3) CONTINUING WILL INDICATE THAT THE CRASH OCCURRED DURING STEP TERMINATION. WARM START WILL TERMINATE THE STEP NORMALLY INSTEAD OF WITH A 2F3 ABEND. RESTART WILL OCCUR IN ERROR AT THE PREVIOUS STEP.

*
OS50243 360SC3535 MODULE - IECIOSB

WHILE SWAPPING UCB INFORMATION DURING DDR PROCESSING, REGISTER 2 IS OVERLAID. THIS RESULTS IN NOT SWAPPING QUEUED REQUESTS FROM THE 'TO' DEVICE TO THE 'FROM' DEVICE.

*
OS50272 360SDN539 MODULE - IGFMCH40 IGFMCH50

MODULE IGFMCH40 WILL PROGRAM CHECK WHEN RE-LOADING THE FLOATING POINT REGISTERS WHILE PROCESSING A MACHINE CHECK ON A MACHINE WITHOUT THE FLOATING-POINT ARITHMETIC OPTIONAL FEATURE.

*
OS50288 360SUK506 MODULE - IEHDASDS

LABEL OR ANALYZE WITH 3 CHARACTER DD NAME WILL GIVE ERROR MESSAGE INDICATING IEHDASDR IS USING THE DDNAME AS A UCB ADDRESS.

*
OS50304 360SD1508 MODULE - IFG0194D

A MEMBER OF A GENERATION DATA SET WAS CATALOGED BUT NOT CREATED BECAUSE A STEP DID NOT RUN. WHEN A SUCCEEDING STEP ATTEMPTED TO USE THAT DATA SET SPECIFYING DISP=MOD, A SCRATCH TAPE WAS MOUNTED, CORRECTLY, BUT OPEN ABENDED WITH AN '813' WHEN ATTEMPTING TO VERIFY THE DATA SET LABEL.

*
OS50321 360SD1508 MODULE - 1FG0551F

MODULE IFG0551F ISSUES DMABCOND TO CALL PROBLEM DETERMINATION. IT THEN BRANCHES TO A SUBROUTINE TO XCTL WHERE IT DESTROYS REG 0 THIS WILL CAUSE AN F37 OR AN INVALID ABEND CODE TO BE ISSUED.

*
OS50326 360SC9505 MODULE - GENERATE GENTSO

SYSGEN GENERATES INVALID JCL AND INVALID JOB STEP WHEN ATTEMPTING A TSO GEN.

*
OS50330 360SD7508 MODULE - IGC0S05B

WHEN A PERMANENT ERROR OCCURS TRYING TO POSITION THE LAST RECORD WITHIN A 'DATA SET', THE ERROR-CHECKING SUBROUTINE ATTEMPTS TO XCTL TO IGC0U05B, CAUSING AN 806 ABEND.

*
OS50331 360SU5507 MODULE - ICAPRTBL

ICAPRTBL DOESN'T RECOGNIZE UNIT ADDRESS GREATER THAN 009.

*
OS50338 360SD7508 MODULE - IGC0M05B IGC0M95B

WHEN PTF 70505 IS APPLIED, A 1B0 ABEND OCCURS DURING CHECKPOINT RESTART BECAUSE AN ATTEMPT IS MADE TO READ A NON-EXISTENT JFCB EXTENSION.

*
OS50362 360SI0526 MODULE - IGG0202I

IGG019GA LOOPING DO TO ISLFBW (ALSO IOBB) BEING ZERO. ERROR IN IGG0202I COMING TO IGG019GA TO FLUSH SAME BUFFER TWICE. ON SECOND ATTEMPT TO FLUSH SAME BUFFER IOBB IS ZERO - ISLFBW IS LOADED FROM IOBB.

*
OS50373 360SD2508 MODULE - SYNADAF

SYNADAF FAILS TO PUT OUT COMPLETE ERROR MESSAGE WITH QISAM.

*
OS50376 360SD2508 MODULE - IGG0191T

OPEN FOR 3211 PRINTER WAIT STATE OCCURS IN IGG0191U BECAUSE OF BAD PARAMETER PASSED BY IGG0191T WHEN ATTEMPTING TO RELOAD UCS BUFFERS AFTER PARITY CHECK.

*
OS50649 360SD1508 MODULE - IGC0005E IFG0552X

WITH QSAM, GET LOATE, GL, WHEN A GET IS ISSUED AFTER EODAD WITH ONE IOB, RESULTS ARE UNPREDICTABLE WHEN USER SHOULD GET A 001 ABEND. PROBLEM IS CAUSED BECAUSE THE END OF DATA MODULE IN END OF VOLUME POSTS AN ECB TO INDICATE THAT END OF FILE HAS BEEN REACHED. FOR GET MOVE THIS IS OKAY AS ANOTHER EXCP WON'T BE ISSUED BY THE END OF BLOCK ROUTINE BUT FOR GET LOCATE ANOTHER EXCP IS ISSUED AND THE ECB IS POSTED '48' BY IOS.

*
OS50661 360SDM509 MODULE - IGG019BR

19BR ASSUMES UPON RETURN FROM EOV THAT R13 WILL
POINT TO EOV WORKAREA. IT TESTS TO SEE IF NEW EXTENT
IS ON SAME VOL. THINKING R13 PTS. TO WORKAREA.
ASSUMPTION IS THAT IT IS ON NEW VOL. SYNCH CODE IN EOV
PROVIDES 19BR WITH NEW SAVEAREA WHOSE PTR IS IN R13
AND TEST IS NEVER EQUAL.

*
OS50670 360SIO526 MODULE - IGG019G0 IGG019G1 IGG019G2
IGG019G3 IGG019G4 IGG019G5 IGG019G6
9GG019G7 IGG019G8 IGG019G9 IGG019I<
IGG019I9

CORRECTABLE 'DATA CHECK' MARKED AS PERMANENT ERROR.

*
OS50678 360SD2508 MODULE - IGG019FJ

WHEN CLOSE IS ISSUED TO A QSAM,VBS FILE USING
PUT, LOCATE--RECORD THAT IS TOO LARGE IS WRITTEN.
USER MOVED RECORD THAT WAS GREATER THAN NUMBER OF BYTES
REMAINING IN BUFFER TO THE LOCATION RETURNED FROM
PREVIOUS PUT. FINAL PUT ISSUED FROM CLOSE WROTE THE
TOO-LONG RECORD.

*
OS50696 360SD2508 MODULE - IGG0191N

A 5 VOL DATA SET (DA) WAS OPENED FOR OUTPUT AND
WITH A DISP=MOD AND A VOL SEQ NO. OF 5 AND EXTENDED
TO 6 VOLS. THE DATA SET WAS THEN CLOSED AND
REOPENED THIS TIME FOR INPUT TO END OF FILE AND A
VOL SEQ OF 5. THE DATA SET WAS PROCESSED ON VOL 5, BUT
THEN SWITCHED TO VOL 2 TO CONTINUE PROCESSING PROCESSING
SHOULD HAVE BEEN FROM VOL 5 TO VOL 6.

*
OS50697 360SD2508 MODULE - IGC0002A

RENAME FAILS ON MFT WITH IEHPROGM.

*
OS50698 360SIO526 MODULE - IGG019GV IGG019GW IGG019GY
IGG019GZ

NO RECORD FOUND WHEN RECORD BUMPED FROM PRIME TO
INDEPENDENNT OVERFLOW.

*
OS50699 360SD2508 MODULE - IGG08101 IGG08102 IGG08103
IGG08104

WHEN STARTING WITH CHAINED SCHEDULING AND OPTCD=U
MOD IGC0008A IS TURNING ON A X'OC' IN DCBOFLG'S TELLING
IOS NOT TO USE ERP'S BUT IS NOT TURNING BITS OFF BEFORE
EXITING. WITH BITS LEFT ON ERP'S NEVER GET CONTROL TO H
TO HANDLE 9 OR 12 PUNCHES OR ANY UNIT CHECK, UNIT EXCEPTION

*
OS50699 360SD2508 MODULE - IGG08101 IGG08102 IGG08103
IGG08104

WHEN STARTING WITH CHAINED SCHEDULING AND OPTCD=U
MOD IGC0008A IS TURNING ON A X'OC' IN DCBOFLG'S TELLING
IOS NOT TO USE ERP'S BUT IS NOT TURNING BITS OFF BEFORE
EXITING. WITH BITS LEFT ON ERP'S NEVER GET CONTROL TO H
TO HANDLE 9 OR 12 PUNCHES OR ANY UNIT CHECK, UNIT EXCEPTION

*
OS50703 360SD1508 MODULE - IFG0196W

WHEN A DCB IS OPENED FOR UPDAT, INFORMATION IS REVERSE
MERGED FROM THE JFCB TO THE DSCB, THUS CHANGING THE
DATA SET CHARACTERISTICS. THE I/O SUPPORT PLM
GY28-6609-5 STATES THAT THE REVERSE MERGE FROM THE
JFCB TO THE DSCB IS PERFORMED ONLY IF THE DCB IS BEING
OPENED FOR OUTPUT OR OUTIN.

*
OS50707 360SIO526 MODULE - IGG0192P

033 ABEND MODULE READING IN HIGH LEVEL INDEX
IF INDEX SPANS CYLINDER ON 3330 AND CYLINDER
VALUE EXCEEDS 255.

*
OS50728 360SD1508 MODULE - IGG0200Y

MODULE IGG0191N PREVENTS OVERWRITING CYL0HD0 ON DASD
WHEN PRIMARY ALLOCATION OF 0 GIVEN BY MOVING X'FFFFFFFF'
INTO DEB EXTENT (APAR"43880). IGG0200Y ATTEMPTS TO WRITE
FILE MARK AT THAT LOCATION IF NOTHING WAS WRITTEN TO FILE.
RESULT IS S614 ABEND.

*
OS50728 360SD1508 MODULE - IGG0200Y

MODULE IGG0191N PREVENTS OVERWRITING CYL0HD0 ON DASD
WHEN PRIMARY ALLOCATION OF 0 GIVEN BY MOVING X'FFFFFFFF'
INTO DEB EXTENT (APAR"43880). IGG0200Y ATTEMPTS TO WRITE
FILE MARK AT THAT LOCATION IF NOTHING WAS WRITTEN TO FILE.
RESULT IS S614 ABEND.

*
OS50812 360SC5505 MODULE - IEFXKMSG

THE TEXT OF MSG IEF266I IS INCORRECT.

*
OS50831 360SC5505 MODULE - IEFVRRC

IF MODULE IEFVRR1 LINKS TO IEFLOCDQ TO DEQUEUE A JOB, AND THE JOB IS NOT FOUND, MESSAGE IHJ007I WILL CONTAIN A BLANK JOBNAME FIELD. MODULE IEFVRRC MOVES THE NAME FROM THE QMPA PASSED BY IEFLOCDQ UNCONDITIONALLY, BUT IF THE JOB WAS NOT FOUND THIS QMPA WILL BE ZEROS.

*
OS50923 360SU8506 MODULE - IEBPPCH1

THE 'PUNCH' OPTION OF IEBPTPCH WILL NOT OUTPUT THE ALIAS NAMES OF THE VARIOUS MEMBERS OF A P.D.S., WHEN STANDARD PUNCH OUTPUT.

*
OS50933 360SU1506 MODULE - IEHMVSTL

COPYING BDAM-DATA SET, FIXED WITH KEYS, DUMMY RECORDS ARE COPIED WITH WRITE TYPE=SF INSTEAD OF WRITE TYPE=SD. AS A RESULT THE FIRST DATA BYTE OF A COPIED DUMMY RECORD CONTAINS THE WRONG RECORDNUMBER

*
OS50938 360SU3506 MODULE - IEBBAM

IEBBAM SCANS THE SETAB (SELECT EXCLUDE TABLE) FOR A SELECTIVE COPY AND EXPECTS SEBIT6 SWITCH SET IN THE LAST ENTRY OF SETAB. HOWEVER SEBTI6 WAS NOT SET AND CANNOT BE SET BEFORE IEBBAM GETS CONTROL, WHILE IEBVCT HAS NOT YET SORTED THE SETAB ENTRIES.

*
OS50939 360SU4506 MODULE - IEBGEN03

WHEN IEBGENER ABNORMALLY TERMINATES (F.I. MSG'S IEB303I, IEB308I), THE INPUT AND OUTPUT DATA SETS ARE CLOSED, WITHOUT WAITING FOR I/O TO COMPLETE. THE SYSTEM CAN BE SET IN THE WAIT STATE BECAUSE THE I/O OPERATION CANNOT BE COMPLETED. IOB AND ECB ETC. ARE RELEASED AND CAN BE OVERLAYED BY NEW INCOMING DATA.

*
OS50942 360SU1506 MODULE - IEHMVESK

IEHMOVE IS UNABLE TO ALLOCATE WORKFILES AND LOOPS IN WRITING IEH381I RESULTING IN B37 ABEND ON SYSPRINT DATA SET.

*
OS50947 360SUC506 MODULE - IEBCMAIN

POSSIBLE 80A ABEND WITH IEBCOMPR, BECAUSE NO FREEPOOL WAS DONE FOR SYSPRINT DATA SET.

*
OS50950 360SU0506 MODULE - IEBD9CUP IEBFDTBL

IEBD9 DOES NOT FREE CORE OBTAINED FOR THE FD FIELDS. THIS CAN RESULT IN A 80A ABEND.

*
OS50958 360SU1506 MODULE - IEHMVEST

WHEN TRYING TO COPY A CATALOGED DATA SET MESSAGE IEH405I-UNABLE TO MOUNT FROM-VOLUME APPEARS.

*
OS50959 360SU1506 MODULE - IEHMVESK

NO FREEPOOL DONE FOR WORKFILE SYSOUT 1 RESULTING IN AN 80A ABEND WHEN IEHMOVE IS INVOLVED ABOUT 50 TIMES

*
OS50965 360SU9506 MODULE - IEHINITT

WHEN LINKING TO IEHINITT MORE THAN ONCE AND A PREVIOUS LINK HAD AN INVALID PARM IEHINITT WILL NOT ACCEPT THE CORRECT PARM.

*
OS50977 360SU7506 MODULE - IEHPROG2 IEHPROG3

IEHPROGM USING SCRATCH VTOC, PURGE SYS FAILS TO DELETE A SYS DATA SET EVEN THOUGH THE PRINTOUT FROM THE UTILITY SAYS IT HAS SCRATCHED THE DATA SET.

*
OS50980 360SU9506 MODULE - IGC0003I

MULTIPLE HDR1 RECORDS ON TAPE USING IEHINITT.

*
OS51000 360SC3535 MODULE - IECXCP

WHEN IOS REQUIRES A USER TO RE-ISSUE SVC0 BECAUSE THERE ARE NO RQE'S AVAILABLE IN A SYSTEM WITH SMF, EACH SVC0 IS COUNTED AS AN EXCP EVEN THOUGH NO I/O PROCESSING HAS BEEN DONE.

*
OS51050 360SC5505 MODULE - IEFDSDRP

0C6 IN TTR CONVERT ROUTINE WITH BAD VALUE PASSED FROM
IEFZ6ST2 TRYING TO CONVERT THE GDG BIAS COUNT TABLE
TTR AFTER A CHECKPOINT RESTART.

*
OS51108 360SD2508 MODULE - IGG0191C

IT APPEARS THAT THE ADCONS IN THE BEGINNING OF
IGG019AV ARE NOT BEING RESOLVED.

*
OS51109 360SIO526 MODULE - IGG019IN IGG019GO IGG019G9
IGG019I9

APPENDAGE MODULES NOT INITIALIZING IOBSEEK WHEN
PREPARING TO REWRITE RECORD - CP5W. STAND ALONE WRITE.

*
OS51135 360SD2508 MODULE - IGGR19BH

MODULE IGG419BH TURNS OFF SILI BIT IN
CHANNEL PGM FOR UPDAT, BSAM, READ, RECFM=U
CAUSING 001 ABEND.

*
OS51136 360SIO526 MODULE - IGG019JH

MODULE IGG019JH STORES A NOP ON
TOP OF A SEARCH ID EQ.

*
OS51137 360SD2508 MODULE - IGG019AJ IGG019FJ IGG019BP

QSAM,PUT,LOCATE WILL NOT ACCEPT A DATA COUNT OF FIVE
WHEN USING ASA OR MACHINE CONTROL CHARACTERS
FOR INVALID BRANCH TO SYNAD.

*
OS51138 360SC3535 MODULE - IECINT

DISABLED LOOP IN IOS SENSE SUBROUTINE AFTER HAVING GONE
TO CCH IN A SYSTEM WITH TP OR SHARED 2311, 2314 OR 2321.
A RETURN REGISTER USED IN THE SENSE ROUTINE IS OVERLAYED
DURING CCH PROCESSING.

*
OS51139 360SCA535 MODULE - IGE0000A

'LOGGING MODE' LOGREC RECORDS NOT BEING LOGGED OUT.

*
OS51158 360SD1508 MODULE - IFG0199E

A PROGRAM CHECK IN ABDUMP DUE TO EOV CALLING CLOSE
WHEN AN ABEND CONDITION OCCURS ON A SYSABEND OR SYSUDUMP
DATA SET.

*
OS51160 360SD4508 MODULE - SGIEC5DM

MODULES IGG019EK, IGG029R1, IGG03003, IGC0009H,
IGC0109H, AND IGC0209H ARE IN SYSGEN MACRO SGIEC5PS INSTEAD
OF SGIEC5DM.

*
OS51174 360SCA535 MODULE - IEC23XXF

IF A CORRECTABLE DATA CHECK OCCURS IN OTHER THAN THE
LAST SEGMENT OF AN OVERFLOW RECORD AND THE 'SLI' BIT
IS NOT SET, THE REMAINING SEGMENTS ARE NOT PROCESSED.

*
OS51175 360SUK506 MODULE - IEHDVTOC

THE OFFLINE ANALYZE FOR A 3330 DID NOT DEFAULT TO
PASSES=0. THIS CAUSED THE FORMAT 4 DSCB TO
INDICATE THAT ALL OF THE ALTERNATE TRACKS WERE AVAILABLE.

*
OS51185 360SUK506 MODULE - IEHIOSUP

THE RELEASE 21 VERSION OF IEHIOSUP DID NOT RECOGNIZE
OPEN/CLOSE/EOV MODULES WRITTEN FOR RELEAWES PRIOR TO
RELEASE 21. THIS IS DUE TO THE VACT THAT THE NAMES OF
THESE MODULES WERE CHANGED FOR RELEASE 21. THE OLDER
MODULES BEGAN WITH 'IGG' AND THE NEW MODULES WITH 'IFG'.
THE REL 21 VERSION OF IEHIOSUP RECOGNIZED ONLY 'IFG'
MODULES. THE TTR'S OF ALL CALLS TO 'JGG' MODULES WILL
BESET TO ZERO.

*
OS51186 360SD1508 MODULE - IFG0200Y

IGG0200F AND IFG0200G MISSING AS ALIAS NAMES FOR
IFG0200Y. OCCURS DURING SPIN 24.

*
OS51208 360SDN539 MODULE - IGFMCH40

WHEN PROCESSING NESTED MAIN STORAGE DATA FAILURES
IGFMCH40 LOOPS TRYING TO EXECUTE LPSW (MACHINE-CHECK OLD PSW
FROM LOC X'30' TO RETURN CONTROL TO THE INTERRUPTED PROGRAM.

*
OS51213 360SDN539 MODULE - IGFMCHE0 IGFMCH20 IGFMCH30 IGFMCH40 IGFMCH50 IGFMCH10 IGFMCH12

IMPROPER BRANCH TO DISPATCHER FROM MCH CAN CAUSE AN ABEND CONDITION WITH AN MFT SYSTEM

*
OS51236 360SDN539 MODULE - IGFMCH20 IGFMCH30 IGFMCH40 IGFMCH50

FOLLOWING COMPLETION OF PROCESSING A MCI, IGHMCH20 ATTEMPTS TO RESTORE FLOATING POINT REGISTERS FOR MFT SYSTEM TASKS. BECAUSE THIS RESTORING FUNCTION IS INVALID, THE NUCLEUS MAY BE OVERLAID, CAUSING EVENTUAL PROGRAM CHECKS.

*
OS51276 360SDN533 MODULE - IFDOLT26 IFDOLT46

RETURN CODES ARE INCORRECT FOR EOD & NO RECORD FOUND. CAUSING OLT TO CONTINUE READING @ EOD. SECTIONS AFTER FIRST SECTION MAY NOT BE ABLE TO FIND ANY RECORDS AS TAPE IS NOT REWOUND.

*
OS51277 360SDN533 MODULE - IFDOLT14 IFDOLT39

THE DPRINT CHAINING FUNCTION ALLOWS THE FE COMMUNICATION MOD TO BE CALLED WHEN AN NON-ERROR DPRINT WITH CHAIN=NO IS DETECTED IN A CHAIN REFERENCE. ONLY AN ERROR DPRINT WITH CHAIN=NO SHOULD PROVIDE FOR FE COMMUNICATION.

*
OS51414 360SC4505 MODULE - IEECVET4

3277 DEVICES MAY READ TRAILING NULLS BEHIND A COMMAND. DIDOCS COMMAND PROCESSORS WILL REJECT COMMAND.

*
OS51415 360SC4505 MODULE - IEECVFTM

INLINE MESSAGES APPEAR BELOW STATUS DISPLAY. POSSIBLE LOSS OF CONSOLE IF MESSAGE DELETION ATTEMPTED.

*
OS51416 360SC4505 MODULE - IEECVFTZ IEECVFTQ IEECEJM IEECBJH

UNABLE TO IPL MODEL 85 OR MODEL 165 WITH GRAPHIC CONSOLE. POSSIBLE LOSS OF CONSOLE WHEN MONITOR ACTIVE COMMAND USED.

*
OS51421 360SD1508 MODULE - IGC0010C

TRANSLATE (SVC103) DOES NOT VALIDITY-CHECK ENDING CORE ADDRESS OF DATA TO INSURE THAT IT IS IN USER'S REGION. RESULT CAN BE A SYSTEM LOOP, OVERLAID FQE OR ABEND0CX.

*
OS51459 360SUK506 MODULE - IBCDMPRS IBCDASDI

3410 AND 3420 TAPE DRIVES NOT SUPPORTED FOR REL. 21.

*
OS51461 360SD1508 MODULE - IFG0200V

IF DCB=DIAGNS=TRACE IS SPECIFIED AND THERE IS ONE DCB BEING CLOSED, CLOSE MODULE IFG0200V PASSES CONTROL TO MODULE IFG019RA WHICH INCREMENTS REG 3 OUTSIDE OF STORAGE, RESULTING IN AN 0C5 ABEND. IF THERE IS MORE THAN ONE DCB BEING CLOSED, THE FIRST DCB WILL NOT BE CLOSED PROPERLY AND MAY LEAD TO UNPREDICTABLE RESULTS. AT LEASE ONE OF THE DCB'S BEING CLOSED MUST BE FOR A DIRECT ACCESS DATA SET FOR THIS PROBLEM TO OCCUR. THE PROBLEM WILL OCCUR WHETHER GTF IS ACTIVE OR NOT.

*
OS51465 360SC3505 MODULE - IECIOSB

IF AN OFFLINE DEVICE IS ACCEPTED AS A 'SWAP TO' DEVICE, ITS UCB DOES NOT INDICATE ONLINE STATUS.

*
OS51472 360SIO526 MODULE - IGG0202D

522 ABEND OCCURS IN JOB ATTEMPTING TO READ AFTER CLOSE HAS BEEN ISSUED.

*
OS51474 360SUK506 MODULE - IEHDEXCP

RESTORING A 2314 PACK GIVES I/O ERROR MESSAGE INDICATING TRACK-OVERFLOW.

*
OS51488 360SIO526 MODULE - MODULES TO DCBTD IGG019GW IGG01920 IGG02029

DCBTDC FIELD IS OVERLAID WITH VALUE FROM FIELD AREA. USER CANNOT UPDATE FIELD AS WITH EACH I/O REQUEST, DCBTDC IS REFRESHED FROM FIELD AREA.

*
OS51492 360SD2508 MODULE - IGC0002E

WHEN USING CHAINED SCHEDULING WITH AN RPS DEVICE THE IOB IS BUILT INCORRECTLY FOR THE ERASE USED TO FIND TRACK BALANCE. PRODUCES COMMAND REJECT.

*
OS51502 360SC3535 MODULE - IECINT IECIOS

THE PROGRAM CHECK RECOVERY ROUTINE IN IOS DOES NOT INSURE THAT A CONTINGENT CONNECT IS NOT OUTSTANDING.

*
OS51504 360SD1508 MODULE - IFG0199R

IF STAE ROUTINE IN IFG0199R IS GIVEN CONTROL, A PROGRAM CHECK MAY OCCUR DUE TO TRANSIENT AREA NOT BEING REFRESHED.

*
OS51505 360SD4508 MODULE - IGG0553E

EXTEND MODULE IGG0553E DEGRADES SYSTEM PERFORMANCE BY ISSUING A SSM INSTRUCTION TO DISABLE FOR INTERRUPTS BEFORE TESTING A BIT IN ITS OWN WORKAREA AND ANOTHER SSM TO ENABLE FOR INTERRUPTS AFTER THE TEST.

*
OS51509 360SCA505 MODULE - IEC23XXF

TRACK OVERFLOW CAUSES CHANNEL DATA CHECK WHEN THERE IS ALSO A CORRECTABLE DATA CHECK ON OTHER THAN THE LAST SEGMENT.

*
OS51510 360SCG505 MODULE - IHJARS21

IN AN MFT SUBTASKING SYSTEM, TCBFTJSE FOR THE RESTARTING JOB IS OVERLAID WITH A POINTER TO THE TCB AT CHECKPOINT TIME. IF THE JOB IS RESTARTING IN A DIFFERENT PARTITION NUMBER (BECAUSE PARTITIONS WERE DEFINED), 80A ABEND OCCURS AND CORE IN OTHER PARTITIONS CAN BE OVERLAID DURING THE NEXT XCTL.

*
OS51512 360SC5505 MODULE - IEFWCIMP

A TAPE VOLUME IS LEFT MOUNTED AS A SCRATCH VOLUME (I.E. THE REQUEST DOES NOT DEFAULT TO PRIVATE) WHEN THE VOLUME SERIAL NUMBER IS SPECIFIED IN THE DD CARD AND THE DSNAME PARAMETER SPECIFIED A TEMPORARY DATA SET NAME.

*
OS51519 360SIO526 MODULE - IGG0192V IGG0192T

REJECT DUE TO INVALID OP CODE IN CP20 WHEN DOING RESUME LOAD, VLR, ON 3330 WITH WRITE CHECK SPECIFIED.

*
OS51539 360SIO526 MODULE - IGG0202M

IF THE UNUSED PORTION OF AN ISAM CYLINDER EXCEEDS ONE CYLINDER ON EITHER A 3330 OR 2305, MODULE IGG0202M LOOPS WHEN PADDING THE CYLINDER INDEX.

*
OS51541 360SD2508 MODULE - IGC0008A

AN EXCP USER C CAN GET UNPREDICTABLE RESULTS USING THE SETPRT MACRO.

*
OS51543 360SCA505 MODULE - IEC23XXF

031 ABEND UNREACHABLE BLOCK AFTER A CORRECTABLE DATA CHECK DUE TO A READ COUNT CCW BEING GENERATED BY THE DA ERP RESTART CHANNEL PROGRAM WHEN THE NEXT CCW IN THE USERS STRING WAS A TIC TO A MULTI-TRACK SEARCH.

*
OS51547 360SUK506 MODULE - ICAPRTBL

ICAPRTBL PERFORMS I/O WHILE ENABLED, AND THEREBY CAN LOSE INTERRUPTS AND CORRECT CONDITIONS CODES. UNPREDICABLE RESULTS CAN OCCUR.

*
OS51553 360SD2508 MODULE - IGG019AT

INCORRECT LRECL PLACED INTO DCB WHILE READING PAPER TAPE.

*
OS51570 360SCB505 MODULE - IGE0225C

WTR WAIT STATE AFTER 3211 ERP W/EQUIP CHK AND INTV REQD.

*
OS51574 360SCB505 MODULE - IGE0100F

NO MESSAGE OR HANDLING OF PRINT CHECK FROM 3211.

*
OS51575 360SCB505 MODULE - IGE0000F

INCORRECT INTERVENTION REQUIRED MESSAGES DURING ERP.

*
OS51592 360SC9505 MODULE - GENERATE

IOGEN CREATES SCRATCH AND UNCATLG FOR ASRLIB ON 145.

*
OS51593 360SD1508 MODULE - IFG0552N

AFTER A 'M' REPLY TO MSG IEC0007DE, THE RESULTING MOUNT MESSAGE ISSUED BY IFG0552N (IEC001A M) DOES NOT HAVE THE MOUNT FLAG SET IN THE UCB.

*
OS51596 360SDM509 MODULE - IGG0201Y

BDAM CREATE FOR RPS DEVICES FREES ALL BUT 8 BYTES OF IOB CORE CAUSING CORE FRAGMENTATION.

*
OS51608 360SC3505 MODULE - IECXCP

THE USE OF A SHARED 2305 WILL BE LOST TO ONE SYSTEM IF ON A SIO A CSW IS STORED WITH DEVICE BUSY. THIS OCCURS WHILE ONE OF THE SYSTEMS HAS THE DEVICE RESERVED AND THE OTHER TRIES TO ACCESS IT. THE BASE UCB WILL HAVE UCBBSY AND UCBCUB ON.

*
OS51653 360SC5535 MODULE - IEFXKIMP

DEVICES (DISK) MAY BE LEFT ALLOCATED WITH A USE COUNT OF ZERO FOLLOWING A SPACE REQUEST FAILURE ON A PUBLIC PACK.

*
OS51683 360SIO523 MODULE - IGE0010E IGC5W07B

INTERVENTION REQUIRED CONDITION ON 3284/6 HARDCOPY CONSOLE CAUSES A CONSOLE SWITCH INSTEAD OF ISSUING AN INTERVENTION REQUIRED MESSAGE. RESULTING CONSOLE SWITCH LEAVES THE DCB FLAGGED AS ACTIVE.

*
OS51696 360SDN539 MODULE - IGC0008E

DDR FAILS TO CHECK FOR 'REPOS=Y' DURING SWAP PROCESSING FOR EXCP LEVEL USER.

*
OS51697 360SDN539 MODULE - IGC0208E

WHEN AN INVALID DEVICE IS REPLIED TO MSGIGF500D, MSG IGF513I IS GIVEN, FOLLOWED BY MESSAGE IGF500I WHICH USES THE INVALID DEVICE AS THE 'TO' DEVICE.

*
OS51698 360SDN539 MODULE - IGC0008E

DDR MISPOSITIONS TAPE FOR SECOND OPERATOR - INITIATED TAPE DURING SAME IPL.

*
OS51699 360SDN539 MODULE - IGC0508E

WHEN AN ERROR OCCURS DURING REPOSITIONING AND A REPLY OF NO IS GIVEN TO MSG IGF509D, MESSAGE IGF513 APPEARS BECAUSE OF GARBAGE IN REPLY BUFFER CAUSING A VALID REPLY TO APPEAR INVALID.

*
OS51711 360SD1508 MODULE - IFG0202E

ABEND 614 WILL OCCUR WHEN IFG0202E ATTEMPTS TO WRITE A FILE MARK FOR AN EXCP USER IF DCBFDAD AND DCBTRBAL FIELDS ARE NOT INITIALIZED.

*
OS51714 360SC5505 MODULE - IEFSMFWI

CHANNEL ADDRESS IN SMF TYPE 4 RECORD IS INCORRECT FOR CHANNELS ABOVE CHANNEL 7.

*
OS51721 360SDN539 MODULE - IGC0508E

MESSAGE IGF504I GIVEN FOR AN UNALLOCATED DEVICE AFTER OPERATOR SWAP IS GIVEN AND JOB IS CANCELED.

*
OS51722 360SDN539 MODULE - IGC0508E

DDR MODULE IS GIVEN CONTROL UNDER COMMUNICATIONS TASK, RESULTING IN AN ENABLED WAIT STATE.

*
OS51738 360SDN539 MODULE - IGC0408E

DDR CALLS SVC 91 FOR DISMOUNT BEFORE FINDING AN ERP IN PROCESS AND TERMINATES CAUSING INACCURATE RECORD.

*
OS51752 360SDN533 MODULE - IFDOLT14 IFDOLT15

ERROR RETURN CODE (X'0C') NOT BEING RETURNED FOR FOLLOWING ERRORS:
1. CCW ADD.=0
2. DATA ADD=0
3. NO DESCRIPTION LINES=0

*
OS51802 360SI0523 MODULE - IGGIFF01

IGGIFF01 TESTS FOR MVT BUT DOES NOT TEST FOR MP AND THUS DEFAULTS TO MFT CAUSING AN INVALID XCTL TO IGC0E01C WHICH IS AN MFT ONLY MODULE.

*
OS51930 360SC5535 MODULE - IEFWD000

UCB IS NOT DE-ALLOCATED BECAUSE OF NEGATIVE USE COUNTS.

*
OS51940 360SC5535 MODULE - IEFXT002

INITIATOR ABEND 80A DUE TO CORE FRAGMENTATION. FAILURE OCCURS IF PREVIOUS JOB FAILS TO INITIATE AND IS FLUSHED. 8 BYTES OF CORE ARE ALLOCATED TO SUBPOOL 0. AMOUNT OF CORE WILL VARY DEPENDING ON NUMBER OF DD CARDS FOR PREVIOUS FAILING JOB.

*
OS51950 360SC5505 MODULE - IEFX300A

REQUEST FOR CHANNEL SEPARATION IS NOT HONORED EVEN THOUGH THERE ARE A SUFFICIENT NUMBER OF DEVICES AND CHANNELS TO FULFIL THE REQUIREMENTS.

*
OS51963 360SC5505 MODULE - IEFXJMSG

MSG IEF265I IS CONTAINED IN TWO MODULES, (IEFXJMSG AND IEFXKMSG), WITH DIFFERENT TEXT FOR THE SAME MSG NUMBER.

*
OS52003 360SU1506 MODULE - IEHMVSRX

COPYING A DATA SET TO TAPE (ALSO UNLOADING A DATA SET TO TAPE) THE CREATION AND EXPIRATION DATES ARE NOT COPIED TO THE HDR1 LABEL OF A STANDARD LABELED TAPE.

*
OS52004 360SU1506 MODULE - IEHMVSTA

DATASET ENTRY IN CATALOG FOR DATASET RESIDING ON MORE THAN 40 VOLUMES WAS DOBBERED USING THE COPY CATALOG FUNCTION OF IEHMOVE.

*
OS52005 360SU1506 MODULE - IEHMVSTL

COPYING A DIRECT DATA SET THE OPTIONCODE BYTE OF THE DSCB IS LOST.

*
OS52025 360SU1506 MODULE - IEHMVESM

COPYING A PDS WITH VARIABLE RECORDS AND REBLOCKING IEHMOVE ABENDS WITH0C4-ABEND AFTER IT FOUND A MEMBER THAT ALREADY EXISTED IN THE OUTPUT DATA SET.

*
OS52028 360SU6506 MODULE - IEBISC IEBISSI IEBISL

A) USING IEBISAM COPY AND NOT ENOUGH SPACE ALLOCATED TO SYSUT2, MODULE IEBISF ABENDS AFTER MSG IEB602I HAS BEEN PRINTED.
B) NO MSG IEB602I TEXT WHEN A SYNAD ERROR ON THE SYSUT1 DATASET, AND THE IEBISAM LOAD OPTION HAS BEEN USED.

*
OS52029 360SI0526 MODULE - IGG0192C

WHEN REUSING EXISTING SPACE FOR RELOADING AN ISAM DATASET, THE CYLOFL AND NTM FIELDS ARE NOT RETAINED.

*
OS52050 360SU1506 MODULE - IEHMVETJ IEHMVSRD IEHMVSRA

MOVE/COPY PDS WITH INVALID NOTELIST(S) HAVING POINTERS WITH THE FIRST BIT ON, WILL GIVE UNPREDICTABLE RESULTS.

*
OS52064 360SCC505 MODULE - IGE0000I

DUPLICATE RECORD ON OUTPUT TAPE AFTER DDR SWAP ON 3420 DRIVE.

*
OS52275 360SC4505 MODULE - IEECVET7

MODULE IEECVET7 CONTAINS REFERENCES TO 'DCMLGNTH' WHICH SHOULD BE TO 'DCMCORLN'.

*
OS52291 360SD2508 MODULE - SGIEC5PS SGIEC5PV SGIEC5PI SGIEC5PL

SLOW SYSGEN DUE TO DATA SET DONTENTION.

*
OS52300 360SD2508 MODULE - IGG0191I IGG0196K

BUFFERS ARE CONSTRUCTED USING BLOCKSIZE
BEFORE BLOCKSIZE IS CHANGED.

*
OS52320 360SD2508 MODULE - IGG0201Z

FOR BSAM WITH ERROR BITS ON SYSTEM GOES INTO LOOP.

*
OS52328 360SD1508 MODULE - IGG0200W

WHEN MCP ABENDS OR IS CANCELLED THE MPP PROGRAM CHECKS
UNDER MVT OR DOES NOT TERMINATE UNDER MFT.

*
OS52329 360SC3535 MODULE - IEC23XXF

STAT TABLE INCORRECTLY UPDATED IF HIGH ORDER 2 BITS
IN BYTE 4 FOR 2314 ARE NOT ZERO.

*
OS52331 360SIO526 MODULE - IGG019IO

WHEN THE LAST RECORD ON A PRIME TRACK HAS BEEN FLAGGED
FOR DELETION DCBNREC IS DECREMENTED BY A VALUE OF
ONE, AND DCBNREC IS NOT INCREMENTED BY A VALUE
OF ONE IF THE FLAGGED RECORD IS REPLACED BY A WRITE
KN OPERATION.

*
OS52335 360SD1508 MODULE - IFG0551I

ON MULTI-VOLUME DATA SET WITH ANSW TAPE ONLY 1 TAPE
MARK IS WRITTEN AFTER EOV LABELS.

*
OS52335 360SD1508 MODULE - IFG0551I

ON MULTI-VOLUME DATA SET WITH ANSW TAPE ONLY 1 TAPE
MARK IS WRITTEN AFTER EOV LABELS.

*
OS52336 360SD1508 MODULE - IFG0552P

WHEN IFG0552P ADDS THE DSNAME TO A MESSAGE (WITH MN DSNAME
ACTIVE) WHICH IS BUILT IN THE EOV WORKAREA JUST BEFORE
THE JFCB IT MAY OVERLAY THE BEGINNING OF THE JFCB IF
THE MESSAGE IS OF A CERTAIN LENGTH. FOR EXAMPLE
A RETAIN OR KEEP MESSAGE AT EOV WITH A TOTAL OF 14 TO 16
CHARACTERS IN THE JOB NAME PLUS STEP NAME.

*
OS52337 360SD4508 MODULE - IGG0325S

ONE LESS TRACK IS ALLOCATED TO A SUBALLOCATED DATA
SET WITH SUL SPECIFIED THAN WAS REQUESTED. IF ONLY
ONE TRACK SMALLER THAN THE START ADDRESS WITH ZERO TRACKS
ALLOCATED TO THE DATA SET.

*
OS52346 360SD2508 MODULE - IGG08103

WAIT STATE ON 3211 PRINTER USING CHAINED SCHEDULING
AFTER PROBLEM PROGRAM ISSUED SETPRT SVC AND FCB IMAGE
NOT FOUND MSG IEC127D.

*
OS52366 360SDM509 MODULE - IHBRDWRD

THE LIST FORM OF THE BDAM READ MACRO,
WITH TYPE=DIR DOES NOT CREATE A DC INSTRUCTION FOR
THE NEXT ADDRESS FIELD IF THE NEXT ADDRESSIS NOT
SPECIFIED.

*
OS52367 360SD2508 MODULE - IGG08104

WHEN VERIFYING FCB DURING SETPRT AND CHANNEL 12 IS
SENSED, THE IOB WILL BE MARKED IN PERMANENT ERROR BECAUSE
FLAGS ARE SET TELLING IOS NOT BE USE STANDARD ERROR
RECOVERY PROCEEDURES.

*
OS52368 360SC3535 MODULE - IECXCP

A LOOP IN IOS OCCURS IF A CSW IS STORED ON A SIO
CONTAINING BOTH CHANNEL ERRORS REQUIRING CCH AND BUSY.
THIS IS A RESULT OF DESTROYING A RETURN ADDRESS IN
REGISTER 14 DURING CCH PROCESSING.

*
OS52385 360SDM509 MODULE - IGGR19KK

BDAM TRK OVERFLOW INPUT WITH NO SPECIAL OPTIONS
DOES NOT CHANGE SECTOR VALUE WHEN RPS IS USED THEREBY
CAUSING EACH SEARCH TO BEGIN WITH SECTOR 0.

*
OS52386 360SIO526 MODULE - IGG019JV IGG019JW

MACRO TIME MODULES DO NOT VERIFY THAT THE RECORD
DESCRIPTOR WORD OF THE RECORD TO BE WRITTEN IS VALID.

*
OS52390 360SD1508 MODULE - IFG0202H

WHEN CLOSING A DATA SET THAT HAS BEEN DYNAMICALLY
ALLOCATED UNDER TSO, AND SMF IS ACTIVE, A 0C5
ABEND OCCURS IN MODULE IFG0202J OR IFG0202K. THIS PROBLEM
OCCURS FOR DATA SETS THAT HAVE A DSORG OF IS, DA, OR PO
ONLY.

*
OS52396 360SD1508 MODULE - IFG0199B

IF OPEN, CLOSE OR END OF VOLUME ENCOUNTER AN ERROR, AN
ENABLED LOOP MAY RESULT IN MODULE IFG0199B (ALIASES IFG020
IFG0209B, IFG0239B, IFG0559B). THIS LOOP WILL OCCUR IF
THE DCBTIOT OR THE DCBDDNAM IS INVALID. NOTE:
IF ABEND CALLS CLOSE AND CLOSE DETECTS AN ERROR CONDITION
THAT SUBSEQUENTLY RESULTS IN CLOSE ENTERING THIS LOOP,
A RE-IPL WILL BE NECESSARY.

*
OS52397 360SD1508 MODULE - IFG0551B

WITH RECFM=FBS OR FS AND THE DCB EROPT=SKP ON AN
ERROR RECORD AND ALSO IN A KEY OF 0, IFG0551B MAY DO
A BALR TO AN EOB ROUTINE AFTER SAVING ALL REGISTERS IN
THE EOV WORKAREA. AFTER RETURNING TO IFG0551B FROM THE
EOB ROUTINE A LM IS DONE OFF OF REGISTER 4 ASSUMING IT
STILL POINTS TO THE EOV WORKAREA BUT THE END OF BLOCK
ROUTINE DOES NOT SAVE REGISTERS 0-8.

*
OS52404 360SD1508 MODULE - IFG0552H IFG0552Z IFG0553H
IFG0554D

KEEP MSG IEC002E K FOR LAST VOL OF A MULTI VOL DATA SET
ALLOCATED TO MULTI-TAPE UNITS HAS INCORRECT DSN.
PROBLEM SIMILAR TO APAR 47334. ALSO IEC002I K MESSAGE
IN IFG0554D FOR SPANNED RECORDS, 2321, SHOULD BE A
RETAIN MSG.

*
OS52407 360SCA505 MODULE - IEC23XXF

IGE0000A LOADED TOO OFTEN.

*
OS52413 360SIO526 MODULE - IGG0202D

FOR LOAD MODE, CLOSE EXECUTER IGG0202D DOES NOT CORRECTLY
FREE ALL OF THE OBTAINED CORE FOR CHANNEL PROGRAMS.

*
OS52430 360SUK506 MODULE - IEHDDUMP IEHDEXCP

WHEN DUMPING 2321 TO 2321, CPYVOL ID=YES,
THE TO VOLUME LABEL IS GARBAGE.

*
OS52438 360SC3535 MODULE - IECXCP

A SYSTEM WAIT OCCURS WITH A SHARED DASD DEVICE
BEING MARKED WITH UCBCUB AND UCBERR. ONE PATH
TO THE DEVICE MUST BE NON-OPERATIONAL AND THE SYSTEM
MUST HAVE A DEVICE WITH AN ALTERNATE CHANNEL PATH.

*
OS52445 360SD2508 MODULE - SGIEC5PL

INCORRECT SYSGEN MACRO, EFFECTIVE NOOP. LINKLIB
MODULES NOT BEING LINKEDITED.

*
OS52446 360SD2508 MODULE - IGG0201Z

REGS ARE LOADED FROM INCORRECT LOCATION IN RB SAVE
AREA BY MOD IGG0201Z BEFORE ISSUING SVC12.

*
OS52447 360SD2508 MODULE - IGG0201Y

AN ABEND A0A CAN OCCUR DURING CLOSE WHILE TRYING
TO FREE IOB'S AFTER PTF 70411 HAS BEEN APPLIED.

*
OS52453 360SD2508 MODULE - SGIEC4UC

INVALID OUTPUT IS GENERATED WHEN 14 IMAGES ARE
SPECIFIED IN UCS MACRO.

*
OS52459 360SIO526 MODULE - IGG019HK

CP23 OPERATES INCORRECTLY IF A DATA CHECK OCCURS
AND ERP'S ARE ENTERED.

*
OS52460 360SD1508 MODULE - IGC0003A IGC0005E

IF WHEN FEOV FLUSHED BUFFERS EOV IS ISSUED FROM
QSAM THE FEOV BIT IN DCBCIND2 FIELD IS ON AND THE REGISTER
SWAP IN THE END OF VOLUME EXECUTORS (IFG0551L) IS NOT
DONE. THUS AFTER RETURNING (SVC 3) TO THE QSAM ROUTINE
WITH BAD REGISTERS A PROGRAM CHECK OCCURS.

*
OS52462 360SD4508 MODULE - IGG03001

AN I/O ERROR OCCURS IN MODULE IGG03001 TRYING TO RENAME A PASSWORD PROTECTED DATA SET WHEN THE DSCB IS THE LAST ON A TRACK. IGG03001 FALSELY ASSUMES THAT REGISTER 15 STILL CONTAINS ZERO AFTER XCTL RETURN FROM READPSWD. THIS CAUSES A TEST FOR RECORD 0 TO FAIL AND SO IT SEARCHES FOR A NONEXISTENT RECORD FF WHEN TRYING TO WRITE THE DSCB BACK TO THE VTOC. WHEN USING IEHPROGM, THIS ERROR RESULTS IN MESSAGE IEH207I WITH A REASON OF PERMANENT I/O ERROR.

*
OS52472 360SD2508 MODULE - IGC0706A

SYNADAF CONTAINS GARBAGE IN ERROR MSG WHEN WRITE IMHIBT OCCURS.

*
OS52473 360SIO526 MODULE - IGG0192W

OPEN EXECUTOR IGG0192W OVERLAYS PART OF A GETMAIN LENGTH TABLE LOCATED AT END OF MODULE WITH THE XCTL TABLE.

*
OS52475 360SC3505 MODULE - SGIEC202

EXTRA CODE IN DA SIO ROUTINE.

*
OS52477 360SIO526 MODULE - IGG0192H IGG0192W

CODE REMOVED FROM 21.0 SHOULD BE IN 21.6.

*
OS52480 360SD2508 MODULE - IGC0906H

0C5 OCCURS IN SYNADAF IF IOB POINTER ON DECB FOR BDAM IS 0. THE IOB IS USED TO PICK UP THE DEB EXTENT POINTER.

*
OS52483 360SC1548 MODULE - IGG019RI

IF AN INVALID DESTINATION IS SPECIFIED WHEN A PUT OR WRITE IS DONE, THE BIT INDICATING INPUT IS TURNED ON INSTEAD OF THE BIT INDICATING OUTPUT. THIS PROBLEM SHOWS UP ONLY WHEN THE USER EXAMINES THE CONTENTS OF REGISTER ONE WHEN HIS SYNAD ROUTINE IS GIVEN CONTROL.

*
OS52527 360SC4505 MODULE - IEECVETC

MODULE IEECVETC DOES NOT TEST FOR A VALID RNUM FOLLOWING A K V COMMAND.

*
OS52530 360SC4505 MODULE - IEECVETD

IF DEL=Y AND CON=N AND TIMER IS NOT WORKING AND OPERATOR ENTERS K S,DEL=R OR RD MESSAGE IEE165I DOES NOT APPEAR. MESSAGE IEE150I IS ISSUED WITHOUT EXPLANATION.

*
OS52539 360SC4505 MODULE - IEECVFTG

FOLLOWING A K V COMMAND USE OF THE KA COMMAND MAY CAUSE IEE914I OR SHOW INVALID AREAS.

*
OS52595 360SD4508 MODULE - IGG0290F

SCRATCH DOESN'T CHECK THE MOUNT BIT IN THE UCB WHEN IT IS PASSED A UCB ADDRESS AND/OR FINDS THE DATA SET TO BE SCRATCHED ON AN ONLINE VOLUME. THE PARTICULAR PROBLEM HERE IS THAT SCRATCH HAS BEEN ISSUED TO SCRATCH A DATA SET ON A PASSED DATA SET QUEUE FROM JOB TERMINATION (IEFZGJB1) WHO IS ENQUEUED TO PROTECT THE UCB'S WITH A MINOR NAME OF Q5. SIMULTANEOUSLY IN ANOTHER REGION A MOUNT HAS BEEN CANCELED IN ALLOCATION (EXTENDED EXTERNAL ACTION IEFWEXTA) WHO ENQUEUES TO PROTECT THE UCBS WITH A MINOR NAME OF Q8. CONTROL IS PASSED TO AN ERROR ROUTINE IN ALLOCATION (IEFXKIMP) W WHO CHECKS THE USE COUNT IN THE UCB AND FINDING TI TO BE 1 ZEROES THE VOLUME SERIAL FIELD OF THE UCB. JOB TERMINATION DOESN'T INCREMENT THE USE COUNT WHEN SCRATCHING PASSED DATA SETS -- RESULT IS A 130 ABEND WHEN SCRATCH DEQ'S ON THE ZEROED VOLUME SERIAL NUMBER IN THE UCB.

*
OS52641 360SDN533 MODULE - IFDOLT14

OLTEP ABEND 0C4 WHEN FE OPTION IS SELECTED AND OLT ISSUES AN ERROR DPRINT REQUEST WITHOUT A HEADER LINE.

*
OS52664 360SC5505 MODULE - **NONE**

ENQ LOCKOUT IN MVT SYSTEM WITH TSO AFTER APPLYING PTF 41446.

*
OS52670 360SC5535 MODULE - IEFXCSSS IEFZHMSG SGGEN100
IECIUCB IODEVICE SGIEC202

3420 TAPE DRIVES DYNAMICALLY POOLED BETWEEN CPU'S USING 'VARY OFFLINE' FOR PARTITIONING CAN INTERFERE WITH EXISTING CPU OPERATION DURING IPL, OR AS A RESULT OF AN OPERATOR ERROR.
THE CURRENT OPERATION OF 'VARY OFFLINE' INTERFACES WITH ALLOCATION OR TERMINATION IN SUCH A MANNER THAT A REWIND-UNLOAD IS ISSUED TO THE 'VARYED' TAPE UNIT. WHEN THIS TAPE UNIT IS IN USE BY ANOTHER CPU, THROUGH THE 3803 TWO-CHANNEL SWITCH, THE REWIND-UNLOAD WILL ABORT THE OTHER CPU'S JOB.
THE ONLY ACCEPTABLE SOLUTION IS TO DEFINE A 'FEATURE=SHARABLE' PARAMETER FOR THE 3420 IODEVICE MACRO TO NOTIFY THE SCHEDULER THAT THE TAPE DRIVE MAY BE IN USE BY ANOTHER CPU. THUS THE ALLOCATION-TERMINATION ROUTINES COULD BYPASS THE REWIND-UNLOAD TO THE VARY'ED TAPE DEVICE.
SOLUTION: THIS APAR HAS BEEN SOLVED AS DESCRIBED ABOVE.

*
OS52700 360SDN539 MODULE - IGC0508E

FOR OPERATOR SWAPS, IF AN ERROR OCCURS DURING REPOSITIONING AND REPLY 'NO' IS GIVEN TO MESSAGE IGF509D, THE JOB WHICH ALLOCATED THE DEVICE BEING SWAPPED CANNOT BE TERMINATED.

*
OS52721 360SC4505 MODULE - IEECVFTG

ON K V,USE=MS WITH BOTH RESIDENT AND GETMAINED SACBS THE POINTER TO SYSGENNED SACBS IS LOST. TEST FOR RESIDENT SACBS IS INVALID.

*
OS52783 360SCQ513 MODULE - IGE0204A

BTAM ERP FOR START-STOP SUPPRESSES TIMEOUT MESSAGE ON PERMANENT ERROR (TIMEOUT) ON READ TEXT, ON ALL DEVICES, INCLUDING 2260'S.

*
OS52784 360SCQ513 MODULE - IECTONLT

IECTONLT TRANSLATES RFT MESSAGE TO ASCII REGARDLESS OF TRANSMISSION CODE SPECIFIED IN DCB.

*
OS52928 360SC5535 MODULE - IEFVKIMP

IEFVKIMP DOES NOT CHECK FOR CONDITIONAL EXECUTION BEFORE READING IN THE PREVIOUS SCTS FOR CONDITION CODE CHECKING.

*
OS53045 360SDN539 MODULE - IGC0708E

DDR ABENDS WHILE TRYING READ THE 3330 BUFFERED LOG.

*
OS53086 360SD1508 MODULE - IGC0005E IFG0551B IFG0551D

FOR BSAM, NORMAL SCHEDULING, ON 2ND ENTRY TO EOV (RETURN FROM SYNAD) PURGED IO REQUESTS ARE NOT RESTARTED.

*
OS53128 360SIO526 MODULE - IGG0192C

QISAM LOAD MODE-COMMAND REJECT WITH PRIME ALLOCATED TO 2314, OVERFLOW ALLOCATED TO 2301. FIRST 16 NORMAL AND OVERFLOW TRACK INDEX RECORDS ARE MISSING.

*
OS53130 360SDM509 MODULE - IGG019KU

BDAM CHANNEL END APPENDAGE TESTS FOR VARIABLE SPANNED RECORD FORMAT WITH 'CLI' INSTRUCTION RATHER THAN 'TM'.

*
OS53131 360SDM509 MODULE - IGC0005C

BDAM TRKOVERFLO, RELATIVE BLKID: WHEN RELEX IS ISSUED, CNVRT ROUTINE (19KF) IS LOADED FROM WRONG OFFSET IN IGG019KA/KJ BECAUSE NO TEST IS MADE FOR OVERFLO AND ASSUMPTION IS THAT IT IS NOT.

*
OS53132 360SD2508 MODULE - IGG019AE

IGG019AE WILL ISSUE AN UNNECESSARY READ CHANNEL PGM AFTER WRITING OUT A TRUNCATED BLOCK.

*
OS53137 360SUK506 MODULE - IEHDASDS

IEHDASDS DOES NOT DELETE LAST FUNCTIONS MODULE OR FREE SYSIN BUFFER AFTER TERMINATION.

*
OS53143 360SD1508 MODULE - IFG0190P IFG01950 IECPDINI

NO ERROR TEST OR CODE EXISTS FOR INSUFFICIENT UNIT ALLOCATION FOR A PARALLEL MOUNT REQUIREMENT.

*
OS53144 360SIO526 MODULE - IGG0192A IGG0192B IGG0192C IGG0192D IGG0192E IGG0192F IGG0192G IGG0192H

UNPREDICTABLE RESULTS MAY OCCUR DURING ISAM OPEN OR CLOSE WHEN THE LENGTH OF A TRANSIENT EXECUTOR INADVERTENTLY EXCEEDS 1K.

*
OS53145 360SD1508 MODULE - IFG0195K IFG0196N

IF ANSI LABELED TAPE IS CREATED WITH NOPWREAD SPECIFIED A 913 ABEND OCCURS WHEN THE TAPE IS LATER OPEN'ED.

*
OS53156 360SUK506 MODULE - IEHDAOUT

WHEN DUMPING DISK TO PRINTER SOME LINES PRINT TWICE. THIS OCCURS WHEN LAST RECORD OF TRACK HAS MORE THAN ONE PRINTED LINE OF BLANKS.

*
OS53161 360SCB505 MODULE - IGE0000F

A LOOP IN IGG019CU RESULTS DURING ERP FOR A CHAIN-SCHEDULED 3211 PRINTER ON FORMS CHECKS.

*
OS53162 360SUK506 MODULE - IEHDVTOC

BAD LABEL ON DASD DEVICE WILL CAUSE 'OFFLINE-QUICK-DASDI' TO FAIL, GIVING IEH813I I/O ERROR MESSAGE.

*
OS53163 360SD4508 MODULE - IGG0325B

INCORRECT ERROR MESSAGE IF DIRECTORY SPACE REQUEST EXCEEDS PRIMARY SPAECE BY LESS THAN ONE TRACK.

*
OS53164 360SIO526 MODULE - IGG019HA

INVALID SET SECTOR OCCURS WHEN PROCESSING OVERFLOW RECORDS. AN INVALID TEST WAS MADE FOR OVERFLOW WHEN REWRITTING OVERFLOW RECORDS.

*
OS53177 360SDM509 MODULE - UPLIMCT

USER SPECIFYS ACTUAL ADDRESSING & EXTENDED SEARCH, THE USER SPECIFYS ACTUAL ADDRESSING & EXTENDED SEARCH, THE LATTER WHICH SHOULD BE IGNORED WHEN USED WITH ACTUAL ADDRESSING. HOWEVER, BECAUSE 'UPLIMCT ' IS PUT INTO IOB AS R0, WHOLE DATA SET MAY BE SEARCHED.

*
OS53183 360SD4508 MODULE - IGG0325R IGG0325P

THERE WERE MISSING TRACKS ON A 2314 PACK THAT WERE NOT ACCOUNTED FOR IN THE VTOC. BIT 0 IN DS4VTOC1 IN THE FORMAT 4 WAS SUPERZAPPED ON SO THAT DOS CONVERSION ROUTINES WOULD REFORMAT F5'S AND F6'S TO RECLAIM THE LOST SPACE THE NEXT TIME AN ATTEMPT WAS MADE TO ALLOCATE A DATA SET ON THIS PACK. THE REFORMATTING OF THE PACK WAS ABNORMALLY TERMINATED, PRINTING MESSAGE IEF454I IMPLYING THERE WERE SOME DATA SETS ON THE PACK WHOSE EXTENTS OVERLAPPED EXTENTS ALLOCATED TO ANOTHER DATA SET. MAPPING OUT THE DISK SHOWED MISSING TRACKS BUT NO OVERLAPPING EXTENTS.

*
OS53186 360SD1508 MODULE - IFG0193A IFG0200Y

DATA SET OPEN FOR OUTPUT WITH PARTIAL RELEASE-RLSE AND DCB=DSORG=IS SPECIFIED ON DD CARD CAUSES SYSTEM TO HANG.

*
OS53193 360SD2508 MODULE - IGG0196K IGG019CF IGG019CV IGC0008A

ASA CONTROL CHARACTERS NOT PROPERLY IMPLEMENTED ON THE 2245 PRINTER DUE TO THE UNAVAILABILITY OF THE PRINT NO SPACE COMMAND.

*
OS53194 360SD2508 MODULE - IGG0191A IGG0191B IGG01917

WHEN A 3525 IS OPENED FOR ASSOCIATED DATA SETS. THE APPENDAGE IGG019C6 IS NOT LOADED DUE TO A TEST FOR DCBDVTYP BEING MADE TOO EARLY IN OPEN EXECUTOR PROCESSING

*
OS53195 360SD2508 MODULE - SGIEC0UC

THE 3211 H11 AND T11 IMAGES ON SYS1. IMAGELIB ARE INVALID ON REL 21.0, AND WILL RESULT IN PRINT CHECKS IF USED.

*
OS53207 360SIO526 MODULE - IGG0192V

WHEN CREATING CHANNEL PROGRAM 20 TO LOAD FIXED FORMAT DATASET USING WRITE CHECK WITH CYLINDER INDEX AND PRIME AREAS ON RPS DEVICES, SECTOR ADDRESS FOR CP20 ERRONEOUSLY POINTS TO SECTOR FIELD FOR CP21. THUS WHEN CP20 IS USED ON A 3330 AND CP21 ON A 2305, CP20 CAN GET A COMMAND REJECT BECAUSE OF INVALID SECTOR VALUE.

*
OS53209 360SD1508 MODULE - IFG0193A

ABEND 0F5 OR ABEND0CX MAY OCCUR WHEN GTF IS ACTIVE WITH TRACE=USR, DURING OPEN. MODULE IFG0193A XCTLS TO IFG0199R WITH AN INVALID TTR IN WTG TABLE. THE MODULE ID IS ERRONEOUSLY MOVED WHERE THE TTR SHOULD BE.

*
OS53211 360SD1508 MODULE - IFG01950

IFG01950 DOES GETMAIN FOR 96 BYTES FOR IFCB EXTENSION, BUT TRIES TO FREE UP 144 BYTES.

*
OS53213 360SIO526 MODULE - IGG02029

0F1 ABEND IN IGG02029 WHEN IGG02029 ATTEMPTS TO XCTL TO IGG0202D.

*
OS53214 360SIO526 MODULE - IGG019IZ

ABEND0C1 DUE TO FAILURE TO INITIALIZE REG IN MODULE IGG019IZ.

*
OS53239 360SDM509 MODULE - IGG0193A

IF BOAM DATA SET IS NOT ON MULTIPLE VOLUMES, COMMON OPEN DOES NOT INITIALIZE THE FIELD IN THE DCB INDICATING THE # OF EXTENTS ON OTHER THAN THE 1ST VOL. 193A TAKES THIS VALUE AUTOMATICALLY, AND USES IT TO DETERMINE THE CORE NECESSARY FOR BUILDING. THE DEB. THE ASSEMBLER INITIALIZED THIS FIELD TO ZERO BUT SUBSEQUENT USE MAY LEAVE THE FIELD NON-ZERO

*
OS53251 360SDM509 MODULE - IGG019KR

CHAN PGM BUILT INCORRECTLY BY 19KR, 19KR TESTS KEY ADDR IN DECB TO DETERMINE IF KEY SHOULD BE READ IN. FOR DYN BUFFERING THE FIELD IS 0, TO BE FILLED IN LATER BY DYN BUFFER RTN. AS RESULT OF 0 IN FIELD, 19KR ASSUMES USER DOES NOT WANT KEY, SKIPS 'OE' CCW AND BUILD INST '06' CCW MAKING CHAN PGM 1CCW SHORTER THAN DYN BUF RTN EXPRECTS.

*
OS53256 360SC3505 MODULE - IECIOS

RRDCBDEB, THE POINTER TO THE DEB, IN RRIOB, THE SKELETON IOB/DEB/DCB FOR RELEASE AFTER PURGE, IS ASSEMBLED AS A (RRIOB+4). THE RESULTING DISPLACEMENT IN THE DCB OF 48 INSTEAD OF 44 CAUSES A 400 ABEND IF AN ERROR ON RELEASE ENTERS VALIDITY CHECKING.

*
OS53257 360SC3535 MODULE - IGE0025C

IGE0025C SETS REGISTER 13 SUCH THAT OFFSET X'1X' WILL POINT TO THE VOLUME SERIAL NUMBER IN THE DATA CELL (2321) SUB UCB, THEN FALLS INTO ZEUS (2305) TEST CODE ASSUMING THE TESTS WILL FAIL. IT IS POSSIBLE FOR THE CONTENTS OF THE 'LAST SEEK' ADDRESS WHICH REG 13 POINTS TO FOR DATA CELL BIN 0 TO PASS THE ZEUS TESTS SUCH THAT REG 13 IS INCORRECTLY SET RESULTING IN A PROGRAM CHECK AT OFFSET X'158' INTO IGE0025C.

*
OS53260 360SD1508 MODULE - IGC0002C

RELEASE 21.0 TCLOSE, OR CLOSE, TYPE=T, DOES NOT PROCESS WHEN THE DEB FOR THE DCB IS NOT ON THE CURRENT TCB DEB QUEUE. THE PROBLEM DOES NOT OCCUR ON RELEASE 20.7 AND EARLIER. TYPICAL SYMPTOMS ARE INCORRECT OUTPUT, OCCURRING IN SUCH PROGRAMS AS GIS, WHICH ISSUES TCLOSE FROM AN ATTACHED TASK.

*
OS53267 360SDM509 MODULE - IGG019KJ IGG019KA

BOTH IGG019KA AND 19KJ FAIL TO SET SWITCH 'FF' IN IOB WHEN ADDING IOB TO THE IOB POOL-AFTER I/O EVENT BUT BEFORE CHECK HAS BEEN ISSUED. PROBLEM OCCURS WHEN A 2ND I/O REQUEST IS MADE BEFORE THE FIRST ONE IS CHECKED.

*
OS53268 360SD2508 MODULE - IGG0191Z

LOOP BETWEEN IOS AND END-OF-EXTENT APPENDAGE USING QSAM UPDATE ON 3330.

*
OS53270 360SD2508 MODULE - IGG0193I

MULTIPLE OPEN OF DCB'S IS SLOW AFTER IGG0193I.

*
OS53272 360SDM509 MODULE - IGG0191L IGG0201Y

IOBS FOR ERASE (BDAM CREATE TRK OVERLFOW) OVERLAY CORE BECAUSE IOB SIZE STORED IN DCB INCLUDES ERASE CCW'S IN R-21- OCCURS ONLY WHEN BLKSIZE IS GREATER THAN TRACK.

*
OS53277 360SC9505 MODULE - CTLG2311 UNCT2311 CTLG2314 UNCT2314 CTLG3330 UNCT3330 TSAMPAK SGASMPAK GENERATE

ADD SUPPORT FOR SYS1.MODGEN2 ON DISTRIBUTION LIBRARY. ALSO FOR 2311 DISTRIBUTION, SYS1.MACLIB IS MOVED TO DLIB04. ALSO FIXES A GENERATE JCL ERROR.

*
OS53279 360SD2508 MODULE - IGG01923 IGG0191P

LOOP IN END OF EXTENT BECAUSE OF BAD CCW CHAIN.

*
OS53284 360SC3535 MODULE - IECINT

USING TRACK OVERFLOW WITH FIX TO APAR 50319, MSG 'IEA000I SNS I/O MALF' IS ISSUED.

*
OS53294 360SD1508 MODULE - IFG0202B

0CX ABEND IN CLOSE MODULES IFG0202F, IFG0202G, IFG0202J, OR IFG0232Z DURING DEFERRED NSL PROCESSING. MODULE IFG0202B SAVES REGISTERS 9 AND 10 AT OFFSET X'1D0' IN THE WORK AREA, WHICH IS OVERLAID BY NSLETRLI WITH AN XCTL PARAMETER LIST DURING RETURN TO IGG0550B. SUBSEQUENT LOAD MULTIPLE RESTORE REGISTERS WITH GARBAGE.

*
OS53297 360SUK506 MODULE - IEHDASDS

PTF70519 CAUSES '0C1' ABEND DOING MULTIPLE FUNCTIONS, E.G., TODD=(,,,).

*
OS53313 360SD1508 MODULE - IFG0551V IFG0551X

AN EOV MOUNT REQUEST FOR A NEW OUTPUT TAPE VOLUME, IEC001A, OR A FILE PROTECT ERROR ON SUCH A VOLUME, IEC009A, WILL NOT APPEAR IN A SUBSEQUENT 'DISPLAY REQUESTS' LIST DUE TO THE MOUNT BIT NOT HAVING BEEN SET IN THE UCB.

*
OS53317 360SD7508 MODULE - IGC0N05B

400 ABEND OR OCX ABEND OCCURS DURING RESTART WITH PTF 70503, PTF 70505, OS 21.0 AND OS 21.6. NEW DEB CREATED FOR SYSOUT DATA SET HAS GARBAGE IN 1ST 84 BYTES.

*
OS53335 360SD2554 MODULE - IMDPRFSR

IMDPRDMP LOOPS WHILE ATTEMPTING TO FORMAT A LOAD LIST ELEMENT (LLE) CHAIN IN A DUMP OF AN MVT SYSTEM. THE LOOP OCCURS BECAUSE AN LLE IN THE DUMP CONTAINS AN INVALID POINTER TO THE NEXT LLE - IE IT POINTS TO ITSELF.

*
OS53340 360SDN527 MODULE - IFCEXXXC

FAILING CCW AND CSW ARE PRINTED IN THE DETAIL EDIT AND PRINT OF A LOGGING MODE RECORD. THEY SHOULD NOT APPEAR.

*
OS53411 360SC5505 MODULE - IEFSD300

MODULE HAS BAD DISPLACEMENT FOR QMRPS FIELD, CAUSING LOOP IF JOBQUE IS ON RPS DEVICE DURING WARM START.

*
OS53458 360SC5505 MODULE - IEFVMLS1 IFG0194F

A NON-SPECIFIC TAPE VOLUME REQUEST WITH UNIT AFFINITY DOES NOT ASK FOR A NEW "SCRATCH" TAPE IF ANY VOLUME IS ON THE DRIVE AND READY AT TIME OF OPEN.

*
OS53471 360SCQ513 MODULE - IGC019MA IGG019MB IECTCHGN DFTRMLST

THE DFTRMLST, CHGN TRY, IGG019MA AND IGG019MB WERE NOT DESIGNED TO HANDLE POLLING WITH 6 0R 7 CHARACTERS.

*
OS53473 360SCQ513 MODULE - IGG019MB IGG019MR

USAGE COUNT WAS DECREMENTED BELOW 0 WHEN ONLTT AND AUTO-POLL ARE USED.

*
OS53501 360SCQ513 MODULE - IGC0D06F

WHEN TERMINAL OPERATOR SENDS RFT TO OS BTAM WITH INCORRECT LENGTH FOR ADDRESSING CHARACTERS, IOB MAY BE OVERLAID.

*
OS53522 360SD4554 MODULE - IMAPTF01

MEMBERS ARE REPLACED IN SYSTEM LIBRARIES AFTER MESSAGE IMA006I HAS BEEN ISSUED INDICATING THAT THEY CANNOT BE REPLACED. PROBLEM OCCURS BECAUSE IMAPTF01 IS NOT PROPERLY CREATING THE OUTF (LINKAGE EDITOR INPUT) DATA SET.

*
OS53523 360SDN527 MODULE - IFCEXXXA

THE OFFSET FOR SDR INFORMATION FOR SHORT OBR RECORD WAS OFF BY 8 BYTES.

*
OS53532 360SDN533 MODULE - IFDOLT44

MODULE CKD FOR SYMBOLIC NAMED DEVICE AND PHYSICALLY NAMED DEVICE OUT OF SEQUENCE. DEFAULTS HIO ISSUED TO PRIMARY DEVICE AND RETURNS INVALID RETURN CODE OF X'04' DURING OLTS. (HIO BYPASSED).

*
OS53534 360SDN533 MODULE - IFDOLTAJ IFDMSGAJ IGC0905I
SGIFD400 SGIFD500 IGC0005I

OLTEP WILL NOT FUNCTION ON 3270 DEVICE FOR REL. 21.0. MODULES IFDOLTAJ, IFDMSGAJ, IGC0905I MISSING. NEED UPDATES TO MODULES SGIFD400, SGIFD500, IGC0005I, IFDOLT61.

*
OS53536 360SDN527 MODULE - IFCEREP0

ON ENTRY TO IFCEP008, REG. 9 HAD A BAD POINTER AND IT CAUSED PGM CHECK.

*
OS53648 360SUJ506 MODULE - IFHSTATR

IFHSTATR MOVES TOO MANY CHARACTERS INTO ITS WORKAREA AND CAUSES AN INVALID CONTROL CHARACTER TO BE PLACED IN ITS OUTP BUFFER.

*
OS53653 360SCC505 MODULE - IGC0009A

SVC 91 DOES GETMAIN FROM SP ZERO.

*
OS53664 360SD3508 MODULE - IGG0CLC4

MODULE IGG0CLC4 GETMAINS FOR 104X BYTES AND FREEMAINS FOR 100X BYTES WHEN IT IS SCRATCHING ALL THE ENTRIES IN A VOLUME CONTROL BLOCK.

*
OS53742 360SC3535 MODULE - IECINT

FIX TO A49373 IN PTF 70557 IS BAD. THE CHANNEL PROGRAM TO DO A SENSE, READ HA, READ R0 AFTER A UNIT CHECK ON A SHARED 2311, 2314 OR 2321 IS BUILT INCORRECTLY AND CAUSES A CHANNEL PROGRAM CHECK.

*
OS53743 360SIO526 MODULE - IGG0196G

IGG0196G DOES NOT CORRECTLY SET RESUME LOAD INDICATORS WHEN DLING RESUME LOAD BEGINNING ON FIRST PRIME DATA TRACK IN CYLINDER WITH TRACK CONTAINING AT LEAST ONE RECORD.

*
OS53787 360SDM509 MODULE - I66019KM IGGR19KM

BDAM WRITE/ADD FOR RECFM=V/U USES THE USERS ECB FOR READING IN R0 RECORD. THE CONTENTS OF ECB ARE SAVED & RESTORED AFTER EDCP. DURING THIS PERIOD THE USER'S ECB MAY BE CHANGED BY WAIT OR POST, BUT THIS CHANGE OF STATUS IS OVERLAIN DURING THE RESTORATION OF THE PREVIOUS CONTENTS.

*
OS53790 360SD1508 MODULE - IFG0551L

MODULE IFG0551L DOESN'T SET UP REGISTER 5 WITH THE DEB ADDRESS BEFORE SYNCHING TO THE BDAM MODULES.

*
OS53794 360SD2508 MODULE - IGG0201A

MOD IGG0201A DOES AN EXCP TO A NOP CCW FOR 3211 PRINTERS TO CLEAR THE PLB FOR INTEGRITY REASONS. THE NOP CCW HAS NO EFFECT ON THE PLB AND THUS ACCOMPLISHES NOTHING. ALSO, IF THE DCB OPENED TO THE 3211 IS A BSAM DCB, THE USER MAY HAVE FREED UP HIS DECB PRIOR TO ISSUING CLOSE AND IN THE CASE THE ECB WILL ALSO BE FREED.

*
OS53798 360SIO526 MODULE - IGC054

OVERLAPPED WRITE KN'S ON A SINGLE DCB RESULTS IN OVERLAID RECORDS IN THE INDEPENDENT OVERFLOW AREA.

*
OS53803 360SC3505 MODULE - IGE0025E

TWO LPSW INSTRUCTIONS ARE EMPLOYED, ONE TO ENTER THE USER'S PROTECTION KEY, THE OTHER TO RETURN TO PRIVLEDGED MODE. THE INSTRUCTION ADDRESSES OF THE PSW'S ARE PRODUCED WITH ADCONS. HOWEVER SUCH ADDRESES ARE NOT RELOCATED FOR TRANSIENT AREA MODULES SUCH AS IGE0025E.

*
OS53836 360SUK506 MODULE - IGC0208B

MSG IEH809I PRINTS MORE THAN ONCE.

*
OS53843 360SDM509 MODULE - IGG0193E

IGG0193E MAKES AN ERROR IN FINDING THE AMOUNT OF DATA WHICH IS WRITTEN ON AN OVERFLOW TRACK THE VALUE CALCULATED IS ONE BYTE TOO HIGH.

*
OS53860 360SIO526 MODULE - IGG02029

CLOSE EXECUTOR IGG02029 INCORRECTLY BUILDS PARAMETER LIST FOR XCTL WHEN ABEND IN PROGRESS. THIS OCCURS AS SAVING OF REGISTERS IS BYPASSED WHEN ABEND IN PROGRESS IS DETECTED. SUBSEQUENT RESTORING OF REYISTERS CAUSES PROBLEM.

*
OS53862 360SDM509 MODULE - IGG019KU

INCORRECT LG RECORDS FOR BDAM VS WHEN READ DI IS SPECIFIED AND KEY IS READ INTO SEGMENT WORKAREA ALONG WITH DATA.

*
OS53914 360SD2508 MODULE - IGG019BE

613 ON OPEN.

*
OS53927 360SIO526 MODULE - IGG019IA IGG019IB

IF PERMANENT ERROR HAS OCCURRED AFTER CLOSE ISSUED WHEN DOING VLR LOAD, PUT ROUTINES IGG019IA/IGG019IB WILL LOOP. THEY INCORRECTLY BRANCH TO THE MIDDLE OF THE BEGINNING OF BUFFER ROUTINE, BYPASSING SAVING OF REGISTER FOR RETURN TO CLOSE.

*
OS53929 360SD1508 MODULE - IFG0551J

IFG0551J PASSES THE WRONG BRANCH TABLE OFFSET, TO MODULE IFGO552R, FOR PROCESSING NL TAPES. AS A RESULT, 552R ENCOUNTERS I/O ERRORS WHEN ATTEMPTING TO PROCESS TRAILER LABELS.

*
OS53945 360SCQ513 MODULE - RESETPL

WHEN RESETPL IS ISSUED ON AN AUTOPOLL LINE USING WRAPAROUND POLLING LIST, POLLING DOES NOT ALWAYS TERMINATE IF ERP IS IN CONTROL RESULTING IN RESETPL NOT CHANGING TICS FOLLOWING POLLS TO I/O NOPS.

*
OS53951 360SCQ513 MODULE - RESETPL

RESETPL DOES NOT ISSUE A HALT I/O IN WRITE WACK CHANNEL PROGRAM FOR PREPARE COMMAND WHICH IS WAITING FOR ENQ RES-PONSE.

*
OS53977 360SCQ513 MODULE - IGG019MB

IN WRITE TTVX MACRO, A WACK RESPONSE FLIPS THE ACK POINTERS AND UNIT EXCEPTION RESULTS IN SUBSEQUENT MACROS.

*
OS54077 360SDN533 MODULE - IFDOLT35

CCW SCAN ROUTINE FAILS TO ANALYZE LAST CCW IF PRECEEDED BY A 'TIC', THEREBY POSSIBLY ALLOWING A 'WRITE' CCW TO BE EXECUTED.

*
OS54155 360SD6508 MODULE - IGG0196A

MICR SCV UCB IS NOT UNALLOCATED AT END OF JOB. THE UCB CANNOT BE VARIED OFF LINE.

*
OS54211 360SC4505 MODULE - IEESCUB

LABEL SUBDCMB IN IEECSUB MAY NOT BE ASSEMBLED ON FULL-WORD BOUNDARY.

*
OS54231 360SC3505 MODULE - IECIOSB

ABEND 0F2 WITH PTF 70521 ON. UCBSNS5 MIS-DEFINED AS 25 SHOULD BE 26.

*
OS54348 360SCQ513 MODULE - CHGNTRY

CHGNTRY MACRO AS SUPPLIED IN ICR 360S-OS-579, OS/BTAM 3270 DEVICE SUPPORT WILL GIVE ASSEMBLY ERRORS WHEN ATTLST PARAM-ETER IS SPECIFIED.

*
OS54460 360SD1508 MODULE - IFG0552P

EOV RETAIN MESSAGE IEC003E R INCORRECTLY INDICATES NL WHEN TAPE IS NSL.

*
OS54462 360SD2508 MODULE - IGG0191N

001 ABEND USING BSAM UPDATE ON A DATA SET WITH PRIMARY ALLOCATION OF ZERO

*
OS54463 360SD1508 MODULE - IGC0003A

UNPREDICTABLE RESULTS WHEN USING ASAM AND ISSUE FEOV. IOB ADDRESS IN DCB MAY BE INVALID AFTER RETURNING FROM PUT ERROR ROUTINE WHEN ENCOUNTER EOF.

*
OS54486 360SI0526 MODULE - IGG01921

WHEN DOING A RELOAD OF AN ISAM DATA SET WHICH WAS PREVIOUSLY OPENED IN THE SAME JOB, DCBNREC IS NOT PROPERLY INITIALIZED. IT REFLECTS THE NEW COUNT PLUS THE COUNT FROM THE PREVIOUS USE OF THE DATA SET.

*
OS54490 360SC3535 MODULE - IEC23XXF

PROGRAM CHECK IN IEC23XXF WHEN DATA CHAINING AND A CORRECTABLE DATA CHECK. THE ERP TREATS A '00' OP CODE AS A TIC COMMAND, IF THE ERRONEOUS TIC ADDRESS CONTAINS WHAT COULD BE A VALID COMMAND, POSSIBLE INCORRECT OUTPUT OR OTHER UNPREDICTABLE RESULTS COULD OCCUR.

*
OS54497 360SD4508 MODULE - IGG0553B

EXTEND IGNORES ROUND OPTION IN SPACE PARAMETER

*
OS54515 360SDM509 MODULE - IGG019KA IGG019KJ

BDAM UPDATE WRITE WITH 'DIF' WHEN OPTCD DOES NOT SPECIFY FEEDBACK & DOES SPECIFY REL.BLK. 19KA, 19KJ CHECK THIS COMBINATION & ASSUME THAT THE BLK REF IS PRESENTED IN FORM OF ACTUAL ADDRESS. IF THE FIELD IS 0, BDAM POSTS ECB INVALID. IF THE FIELD IS OTHERWISE, EITHER CHAN PGM CHECK OR UPDATE TO WRONG RECORD OCCURS.

*
OS54550 360SUK506 MODULE - IEHDVTOC

IEHDASDR QUICK DAS01 DOES NOT ISSUE MSG IEH846I IF 2314 DRIVE IS OFFLINE AND VOLUME LABEL EXISTS ON PACK

*
OS54556 360SI0526 MODULE - IGG029I1 IGG019I2

TRACK INDEX INCORRECT FTIW RESUME LOAD.

*
OS54571 360SC3505 MODULE - SGIEC202

WHEN A DEVICE (3420) REQUIRING A 20 BYTE STATISTICS TABLE IS THE LAST UCB SGIEC202 DOES NOT ADD THE ADDITIONAL 10 BYTES.

*
OS54604 360SD1508 MODULE - IECPDINI IFG019OP IFG0200P
IFG0550P IFG0230P

WHEN THE SAM EXECUTORS TRANSFER TO PROBLEM DETERMINATION MODULE IGG0206M, AN ALIAS FOR IFG0200P, IFG0200P DOES NOT SET UP THE WTG TABLE BASIC SECTION TO REFLECT THE IFG MODULE NAME WHEN IT SCTL'S TO IFG0209B THUS CAUSING AN 806 ABEND.

*
OS54610 360SUK506 MODULE - IEHDSCAN

IF CONTROL CARD IS PUNCHED PAST COL 72 INSTEAD OF
CONTINUATION CARD, IEH DSCAN IS NOT PICKING IT
UP AND SENDING ERROR MSG TO IEHDDUMP WHICH ABENDS.

*
OS54622 360SD2508 MODULE - IGC0002D

MODULE IGC0002D TESTS ITS CALLER'S TCB TO DETERMINE
IF IT SHOULD BYPASS VALIDITY CHECK. IT SHOULD INSTEAD
TEST ITS CALLER'S RB.

*
OS54635 360SUK506 MODULE - IEHDCONS

INCORRECT SPACE ALLOCATION AND VARIOUS SYSIO ERRORS DUE TO
TRACK CAPACITY IN FORMAT 4 DSCB INCORRECTLY INITIALIZED.

*
OS55024 360SDN527 MODULE - IFCSCUA0 IFCECUA0 IFCEVOL0
IFCE3420 IFCS3420

IFCEREP DEPENDS ON SENSE DATA TO DETERMINE IF A
RECORD IS A 3410 OR 3420. IF NO SENSE DATA IS AVAILABLE
A 3420 RECORD IS PRINTED AS A 3410.

*
OS55034 360SDN527 MODULE - IFCRE002

EOD WRITTEN ON SYS1.LOGREC BY CLOSE WHEN ABEND OCCURS
CURING EXECUTION OF IFCEREP0.

*
OS55038 360SDN527 MODULE - IFCEP007

MESSAGE IEC101A IS ISSUED FOR THE 'ACCDEV' DATA SET
REPEATEDLY BUT NO DATA IS WRITTEN TO THE TAPE.

*
OS55053 360SCQ513 MODULE - IGG019PA

UPON COMPLETION OF A READ INITIAL FOR LOCAL 3270 DEVICES
THE CHANNEL END APPENDAGE UNCONDITIONALLY TURNS OFF THE
BUSY BIT IN THE IOBINCAM FIELD FOR ALL IOB'S IN THE LINE
GROUP.

*
OS55055 360SCQ513 MODULE - IGG019MA

IF THE 'INOUT AREA' OPERAND OF THE READ MACRO IS 'S',
DYNAMIC BUFFERING IS SPECIFIED. BTAM INCORRECTLY OBTAINS
THE BUFFER LENGTH FROM THE 'INOUTLENGTH' OPERAND CAUSING AN
INCORRECT READ LENGTH.

*
OS55202 360SD3508 MODULE - IGG0CLC5

WHEN THE GENERATION DATA GROUP OPTIONS DELETE AND EMPTY
ARE BOTH SPECIFIED, THE NUMBER OF BLOCKS AT THE LOWEST
LEVEL IS GREATER THAN ONE, AND AFTER THE GROUP BECOMES
FULL, THEN THE FIRST BLOCK AT THE LOWEST LEVEL IS DAMAGED
(THE INDEX CONTROL ENTRY IS DESTROYED).

*
OS55225 360SD3508 MODULE - IGG0CLC4

WHEN THE OLDEST GENERATION DATA GROUP ENTRY IS REMOVED,
A CHECK FOR A VOLUME CONTROL BLOCK POINTER ENTRY (VCBPE) IS
NOT MADE, RESULTING IN >DEAD SPACE> IN THE CATALOG DATA
SET CAUSED BY UNFREED VOLUME CONTROL BLOCKS (VCBS).

*
OS55236 360SU7506 MODULE - IEHPROG2 IEHPROG3

PERMANENT I/O ERROR WHEN TRY RENAME MEMBER AND
DIRECTORY IS FULL. RENAME OF DATASET SUCCESSFUL.
PTF 70524 APPLIED BUT NO CHANGE.

*
OS55358 360SCQ513 MODULE - SGIHB000

MODULE IEEC2740 WHEN HANDLING MLWTO DOES NOT CHECK FOR
A ZERO LENGTH IN A MINOR WQE SO IF THE LENGTH IS ZERO
IEEC2740 MOVES 256 BYTES, OVERLAYING WQE'S AND CAUSING
UNPREDICTABLE RESULTS.

*
OS55362 360SDN527 MODULE - IFCEREP0

ON ENTRY TO IFCEP008 REG. 9 HAS A BAD POINTER AND IT
CAUSED 0C4.

*
OS55370 360SDN527 MODULE - IFCMES00

EQUIPMENT CHECK COUNTERS ON MEDIA ERROR STATISTICS IS
INCORRECT FOR 3420 IFCEREP0 PROCESSING.

*
OS55373 360SD4554 MODULE - IMAPTFLE

IMAPTFLE MODIFIES DSNAMES TO BECOME 'SYS1.NAME' IF THE ANME APPEARS AS 'XXXX.NAME' IN THE STAGE 1 TAPE. WHEN THIS HAPPENS, AND A CONTINUATION IS NEEDED AFTER THE DSNAME, PTFLE DOES NOT PUT IN THE COMMA AND CONTINUATION INDICATOR. UNMODIFIED, THE JCL PRODUCED RESULTS IN A JCL ERROR.

*
OS55374 360SD4554 MODULE - IMAPTFLE

IF A USER LINKS TO IMAPTFLE MORE THAN ONCE, THE USER WILL GET AN 80A ABNED.

*
OS55423 360SDM509 MODULE - IGC0002E

WHEN RECFM=FBS, SVC 25 SHOULD MAKE THE ARITHMETIC CALCULATION, NOT USE THE RESULTS OF THE ERASE EXCP. IT DOES SO BECAUSE DEBBLIKSI HAS NOT BEEN INITIATED FOR THE FIRST WRITE.

*
OS55450 360SD1508 MODULE - IFG0202B

CLOSE MODULE IFG0202B DOES NOT LOAD REGISTER 7 PRIOR TO USE. CUASES 0C1 ABEND WHEN USING NSL TAPE.

*
OS55451 360SUK506 MODULE - IGC0208B

SVC 91 IS NOT BEING ISSUED BY IEHDASDR BEFORE A UNIT IS MARKED AS 'NOT READY' IN ITS UCB.

*
OS55468 360SDM509 MODULE - IGG0193E

BDAM PROCESSING DURING OPEN IF DYNAMIC BUFFERING AND RELATIVE BLOCK ADDRESSING ARE SPECIFIED AND BUFL IS OMITTED, TASK ABENDS WITH 806 RATHER THAN 013 IN RELEASE 21.

*
OS55469 360SD2508 MODULE - IGG019BH IGGR19BH

THE SILI BIT IS WRONGWAY TURNED ON FOR READ OF UNDEFINED RECORDS. FIX TO THIS TURNS SILI BIT ON FOR ALL READ REQUEST S.

*
OS55487 360SIO526 MODULE - IGG019GC IGG019GD IGG019IA IGG019IB

QISAM LOAD MODE MP65 A MIDDLE BUFFER IN DATA SET INVALID AND THE LAST BUFFER IS NOT WRITTEN.

*
OS55514 360SD2508 MODULE - IGG019BB

WHEN READING TAPE WITH RECFM=U, BSAM CHECK MODULE SETS DCBLRECL EQUAL TO BLKSIZE INSTEAD OF ACTUAL RECORD SIZE.

*
OS55527 360SD2508 MODULE - IGG019CC

IGG019AT HAD EXPECTED REGISTER 5 TO REMAIN CONSTANT OVER THE BRANCH TO IGG019CC BUT IGG019CC ALTERS THE CONTENTS OF REGISTER 5.

*
OS55570 360SD1508 MODULE - IFG0202F

ABEND214 WHEN REWIND OPTION IS SPECIFIED IN CLOSE OF NSL TAPE DATA SET.

*
OS55576 360SC3505 MODULE - IGE0025E

AN ATTEMPT TO STORE THE ADDRESS PORTION OF THE PSW TO RETURN TO PROTECT KEY ZERO WHILE IN THE USER'S PRO-TECTION KEY CAUSE AN 0C4 ABEND.

*
OS55577 360SD2508 MODULE - IGG0191A

OCR OPEN LOADS BSAM MODULES FOR A GL MACRF.

*
OS55588 360SUK506 MODULE - IGG019P9

ERROR MESSAGE IEH813I WHEN 'DUMP'ING THE LAST TRACK OF A 2301 DRUM WITH ONLY R0 ON IT.

*
OS55638 360SCQ513 MODULE - IGG019MA IGG019MB

BTAM RECEIVES INCORRECT ACK RESPONSE AFTER A WRITE CONTINUE.

*
OS55645 360SCQ513 MODULE - IGG019M0

IBM 2740 MCS CONSOLE IS LOST AFTER TYPING IN MESSAGE,EOB, BID. PTF283 WAS APPLIED.

*
OS55712 360SCQ513 MODULE - IGG0193Q

ABENDS 97 AND 98 WERE REFERENCED BY THE WRONG ERROR ROUTINE.

*
OS55714 360SCQ513 MODULE - IGC0D06F

IF SPECIAL CHARACTERS WERE KEYED IN ON A REMOTE 3270 DISPLAY STATION AND THE REQUEST-FOR-TEST KEY WAS DEPRESSED, IGC0D06F WOULD ABEND WITH AN 0C7.

*
OS55715 360SCQ513 MODULE - IECTSVC IGG019PA

AN APPLICATION PROGRAM ISSUED A READ INITIAL TO A LOCAL 3270, FOLLOWED BY RESETPL. RESETPL RETURNED WITH A RETURN CODE OF X'04' AND THE APPLICATION ISSUED WAIT. THE PROGRAM NEVER GOT OUT OF THE WAIT STATE.

*
OS55716 360SC4505 MODULE - IEECVFT1 Q

ADDITIONAL POSSIBLE SYMPTOM - LOOP IN IGC6Q07B (IEECVFTQ) 4 INSTRUCTIONS AT LABELS 'FREEMAJ' AND 'ENDDD'.

*
OS55847 360SDN527 MODULE - IFCEXXXA IFCSXXXA

THE HEX AND BIN PRINTS OF THE SENSE DATA FOR THE 3211 ARE SHIFTED INCORRECTLY. CORRALATION NUMBER IS NOT CORRECT.

*
OS55854 360SDN554 MODULE - IMDPRFSR

IMDPRFSR DOES NOT CHECK TO SEE IF THE MANIMUM NUMBER OF DD'S PER STEP HAS BEEN EXCEEDED WHEN FORMATTING THE TIOT. INSTEAD IT CHECKS FOR A CAST WORD OF ZEROES. IF THE TIOT IS BAD AN INFINITE LOOP IS GENERATED.

*
OS55974 360SCQ513 MODULE - IGC0004C

IOBERINF IS SET TO ZERO BY ERP.

*
OS56047 360SCQ513 MODULE - IGG019PA

3270 LOCAL CEA DOES NOT CHECK FOR TERMINAL TESTS SPECIFIED (EROPT=T) IN THE DCB BEFORE ATTEMPTING RFT TO A 3270 DEVICE CAUSING LOW CORE OVERLAY OR OTHER UNPREDICTABLE RESULTS.

*
OS56245 360SUA506 MODULE - SGIHG401

SYSGEN MACRO SETTING INCORRECT LINK-EDIT CHARACTERISTICS FOR IFHSTATR AND IEHINITT.

*
OS56335 360SUK506 MODULE - IEHDVTCC IEHDMSGS

IEHDHSDR NOT ANALYZING OFFLINE LABELED 2314

*
OS56350 360SIO526 MODULE - IGG02029

IGG02029 WAITS FOR WRITE OPERATIONS TO COMPLETE ALTHOUGH THEY HAVE BEEN PURGED. PROBLEM WAS CORRECTED FOR READ OPERATIONS BUT NOT WRITE.

*
OS56354 360SCB535 MODULE - IGE0000F

DUPLICATE OUTPUT LINES ON 3211 AFTER EQUIP CHECK WITH INT REG.

*
OS56369 360SD4508 MODULE - IGC0002I

IF SCRATCH'S CALLER PASSES A SUB-UCB ADDRESS IN REGISTER 0, SCRATCH INCORRECTLY CALCULATES THE ADDRESS OF THE MAIN UCB. A MOUNT MESSAGE WILL NOT BE ISSUED, AND UNLESS THE VOLUME IS ALREADY MOUNTED THE DATA SET WILL NOT BE SCRATCHED.

*
OS56388 360SIO526 MODULE - IGG02029

0C5 ABEND IN IGG02029 WHILE CLOSING A SCAN DCB WHICH HAS HAD AN ERROR. IGG019HB'S EINFO ROUTINE HAS DESTROYED REG 10 WHICH IGG02029 DEPENDS ON FOR THE DEB EXTENSION CAUSING REG 15 TO BE LOADED WITH AN INSTRUCTION RATHER THAN AN ADDRESS OF THE ESETL ROUTINE.

*
OS56396 360SUK506 MODULE - ICAPRTBL

ICAPRTBL INCORRECTLY USES BASE REGISTER 14 INSTEAD OF 15 CAUSING A POSSIBLE PROGRAM CHECK DURING IPL. PROBLEM WOULD ONLY OCCUR IF A TXT CARD WITH A ZERO COUNT FIELD IS ENCOUNTERED.

*
OS56399 360SIO526 MODULE - IGG019HA

COMMAND REJECT, QISAM, SCAN, INDEPENDANT OVERFLOW RECORD AFTER PUTX, ESETL

*
OS56416 360SIO526 MODULE - IGG0192C IGG0202A IGG02029

IN A TSO ENVIRONMENT, ISAM MAY PROGRAM CHECK IN IGG0192C. THIS OCCURS BECAUSE THE DCB FIELD AREA HAS BEEN SWAPPED OUT OT CORE.

*
OS56426 360SD4508 MODULE - IGG0325A IGG0325T

MODULE IGG0325A DOES NOT SET THE DIRF BIT (BIT 5 IN FIELD DS4VTOCI IN THE FORMAT 4 DSCB) BEFORE TRANSFERRING CONTROL TO THE DOS VTOC CONVERSION ROUTINES IF THE DOS BIT IS SET. THEREFORE, IF ONE OF THE VTOC CONVERSION ROUTINE MODULES ENCOUNTERS AN I/O ERROR IN READING OR WRITING A DSCB, THE FORMAT 5 DSCBS MAY BE INVALID, BUT THE DIRF BIT WILL NOT BE SET.

*
OS56446 360SD2508 MODULE - IGG0191I

SAM OPEN EXECUTOR IGG0191I TURNS OFF BIT INDICATING LOGICAL RECORD INTERFACE WITHOUT CHECKING TO SEE IF IT IS BDAM LOAD MODE. AS RESULT BFTEK=R (DCB+ X'20') BIT IS TURNED OFF SINCE THIS BIT DETERMINED REQUEST FOR VARIABLE SPANNED, DEFAULTS TO VARIABLE AND WRONG MODULES ARE LOADED.

*
OS56452 360SD4508 MODULE - IGC0002G

OBTAIN DEGRADES PERFORMANCE BY ENTEREING A VALIDITY CHECK ROUTINE TWICE WHEN CHECKING TO SEE IF THE USERS WORK-AREA IS IN HIS REGION.

*
OS56505 360SD2508 MODULE - IGG019CC

FOR AN INOUT DATA SET USING BSAM WRITE WITH LABEL= (,NL,,IN), NO 001 ABEND RESULTS AS DID IN 21.0

*
OS56524 360SDN533 MODULE - IFDOLT11

0C9 RUNNING OLTS USING IFDOLT11 ALGORITHM FOR GENERATING RANDOM DATA ENDS UP WITH TOO LARGE A QUOTIENT FOR REGISTER.

*
OS56532 360SDN527 MODULE - IFCEXXX6

IN A SHORT OBR RECORD, (END OF DAY, PACK CHANGE) MODULE IDENTIFIER IS NOT PRINTED. THIS IS REALY THE PHYSICAL CUA. WHEN A SUMMARY IS DONE OF NOTHING BUT E.O.D. RECORDS ALL SENSE COUNTS ARE ZERO.

*
OS56533 360SDN554 MODULE - IMDPRPMG

MESSAGE INCORRECT NEWDUMP SUBSTITUTED FOR NEWTAPE.

*
OS56797 360SCQ513 MODULE - SGIHB000

WHEN IEEC2740 SETS UP AN IOB IT DOES NOT CLEAR THE FIELD AT X'60'. IF A X'FF' HAPPENS TO EXIST THERE AND THE INTER-VENTION REQUIRED ERP (IGE0604B) IS ENTERED, THAT ROUTINE PROCEEDS AS THOUGH OPEN IS IN PROGRESS.

*
OS57175 360SIO526 MODULE - TGG0202A

80A ABEND MAY OCCUR IN IGG0202A BECAUSE BISAM CLOSE IS FREEING ONLU PART OF THE DCB FIELD AREA. THIS RESULTS IN SQS BIENG FRAGMENTED.

*
OS57176 360SD1508 MODULE - IFG0552X IFG0552Z

EOV ACCEPTS AN ASCII TAPE WITH A NON-BLANK ACCESSIBILITY BYTE IN THE VOLUME LABEL. EOV SHOULD HAVE ISSUED THE MESSAGE IEC017I A DDD, DDN, -2 AND CLOSED THE DCB.

*
OS57186 360SD2508 MODULE - IGG019BF

PROGRAM CHECK IN MODULE IGG019BF BECAUSE CONTENTS OF REGISTER FIVE ARE ALTERED IN MODULE IGG019CC

*
OS57187 360SD2508 MODULE - IGG019AL

USE OF RE-ENTERANT LOAD MODULE WITH I/O AREA CAUSES 0C4 ABEND

*
OS57207 360SD2508 MODULE - IGC0002E

INVALID INSTRUCTION IN IGC0002E CAN CAUSE 0CX ABENDS

*
OS57232 360SIO526 MODULE - IGG019GW

0C4 ABEND OCCURS WHEN DOING BISAM WKN WITH DISP=SHR

*
OS57269 360SD2508 MODULE - IGG0191W

AN INCORRECT CCW CHAIN IS BUILT WHEN SPECIFYING
QSAM WITH WRITE VALIDITY CHECK AND CHAIN SCHEDULING.
THE COMMAND CHAINING BIT IS NOT ON IN THE READ SECTOR CCW.

*
OS57370 360SCQ513 MODULE - IGE0004A

IGE0004A FAILS TO CLEAR HIGH BYTE OF OF CSW LOADED FROM
IOB CSW FIELD. IF IOBFLAG3 IS NONZERO, TEST AS TO VALIDITY
OF CSW FAILS.

*
OS57374 360SCQ513 MODULE - IGG0194P

AFTER DETERMINING THAT DEVICE COULD NOT BE OPENED DUE TO
OLTEP BEING IN CONTROL, IGG0194P ATTEMPTED TO FREE CORE
WHICH WAS NOT GOTTEN RESULTING IN A 90A SCC.

*
OS57546 360SDN527 MODULE - IFCF0135 IFCEI135

FREP DOES NOT PRINT OUT LATEST ENG. CHANGES.

*
OS57567 360SCQ513 MODULE - DFTRMLST

ASSEMBLY ERRORS IN DFTRMLST MACRO FOR DIALST DIGITS.
APAR CODE FOR 53471 UNNECESSARY.

*
OS57952 360SD1508 MODULE - IGC0003A

FEOV DOES NOT RESTORE THE USERS
REGS 9-13 BEFORE SYNCHING TO THE
PUT ROUTINE . IF THE PUT ROUTINE
ISSUES EOV AND A SYNAD EXIT IS TAKEN
BECAUSE OF AN I/O ERROR, THE USER GETS FEOVS
REG 9-13 NOT HIS REGS.

*
OS58518 360SCQ513 MODULE - IGG019MA

WRITE TI DOES NOT ALLOW FOR DIAL-IN FROM 2740 WITH
RECORD CHECKING AND DIAL.

*
OS59235 360SDN539 MODULE - IGC0608E

MSG. IGF503I ISSUED DUE TO MODESET BEING INVALID WHEN
TRYING TO VERIFY LABELS OF 7-TRK TAPES DURING DDR SWAPS.

Part 4, Section 2: Program Symptom Index for Corrected Items

This program symptom index directs you to a detailed description of a known program problem that has been corrected in Release 2. (Descriptions can be found in the preceding section.)

The index is arranged by component. Entries within each component grouping are defined by Symptom Failure Keywords. Symptom keywords are divide into two categories. They are:

1. How did it fail?

   (Keywords such as ABEND, WAIT, LOOP, MSG, and INCORROUT are used.)

2. What was being done?

   (Keywords EXEC, CMPL during ASM, CBL, ALG, FOR, PL1, RPG, and I/O, DUMP, LKED, SORT, SYSGEN, TP, CNTRLPROG are used.)

Each entry is defined as follows:

SYMPTOM FAILURE - Keyword indicats how the failure occured.

COMPONENT - Program component in which the error occurred. *PROSE* is used as a dummy component to indicate temporary restrictions.

DESCRIPTION - The first part of this entry should contain a keyword that explains what was being done when the failure occurred.

APAR# - Number of the APAR submitted to report the problem.

FIXD - Release number in which the APAR was fixed or is scheduled to be fixed.

ACTION - Indicates circumvention, if available, permanent restriction and PTF numbers, when applicable.

CMPNT–SYMPTOM	DESCRIPTION	****OS/VS****	APAR NO. FIXED–ACTION
SC18E ABEND	EXEC–IEFDSRP–IGC0T0SB ISSUING REPOS MACRO FOR DSO DATA SET.	X00065 F020 00048
SC18F INCORROUT	EXEC–IEFWTP00–JECS BUFFER LOCKOUT, BAD SPOOL ERROR PROCESSING.	X00004 F020 00004
SC180 INCORROUT	IEFSMGET–FAILS TO TRUNCATE LONG SYSOUT RECORDS	X00258 F020 S/ZAP
SC180 INCORROUT	IEFSMGET–REPORT WRITER–LINE OVERLAID BY PREVIOUS LINE.	X00816 F020 S/ZAP
SC180 INCORROUT	JECS–IEFSMGET–DUPLICATE LINES OF LOW CORE PRINTED	X00260 F020 S/ZAP
SC181 INCORROUT	EXEC–IEFMSGJP–IEF863I OVERLAYS SECOND, THIRD LINES OF MSG.	X00063 F020 00005
SC181 PERFM	EXEC–IEFVMC–STAE EXIT CLOSES ACB BEFORE DAR DUMP.	X00151 F020 00005
+SC182 ABEND0C5	IEFSD082–089–DUE TO INCORR HANDLING OF EMPTY DSB	X00819 F020 S/ZAP
+SC182 ABEND13E	IEF0XC07–WHEN WRITER WITH USER EXIT IS CANCELED .	X00272 F020
SC182 ABEND513	EXEC–IEFVMA–WHEN TAPE OUTPUT DEVICE FOR USER WRITER	X00005 F020 00005
&SC183 ABEND80A	EXEC–IEFSD305–IEFSD304–IEFVSDRD–WARMSTART–MORE THAN 4 JOBS ACTIVE	X00032 F020 00072
SC183 INCORROUT	EXEC–IEFSD303–JOBQ SPACE LOST AFTER SYSTEM FAIL + WARM START	X00803 F020
SC183 INCORROUT	EXEC–IEFSD309–SYSIO ERROR–HARDCOPY LOG –SYSTEM REST ART	X00034 F020 00025
SC184 ABEND001	EXEC–IEFXT00D–TAPE DATA SET ON ALLOCATION "VOLSER" LOST	X00232 F020 00049
SC184 PERFM	EXEC–TAPE DRIVER REMAINS LOADED AND READY AFTER JOB IS CANCELLED	X00232 F020
SC184 WAIT	EXEC–IEFSD097–MSGIEF238A ANSWER W/WAIT CAUSES 0C5	X00814 F020
SC186 ABEND 80A	EXEC–IEFSD515–80A OCCURS AFTER EXCLUSIVE ENQ ON Q5–NO DEQ DONE.	X00067 F020
SC186 INCORROUT	EXEC–IEFSD161–SWADS–I/O–ERROR–CHECKPOINT/RESTART–SW ITCH–SWADS–DVC.	X00062 F020
SC186 INCORROUT	EXEC–IEFSD598–P/P ISSUES RESERVE MACRO AND ABEND BEFORE DEQUEUE	X00238 F020 00060
&SC187 INCORROUT	EXEC–IEFZGJB1–TAPES REMAIN ALLOCATED IF PASS OR RETAIN SPECIFIED	X00255 F020 00071
SC187 MSGIEF280E	FAILED TO PUT OUT MSGIEF280E FOR DISP OLD, KEEP TAPE DATA SETS 11/	X00251 F020 S/ZAP
+SC187 MSGIEF287I	GC24–5092– DS REQ NEW LEVELS OF INDEX NOT CATALOGED	X00484 F020 PUBCH
SC187 PERFM	EXEC–IEFZGJB1–TAPE DRIVER REMAINS LOADED AFTER JOB CANCELLED.	X00251 F020 S/ZAP
SC188 INCORROUT	EXEC–IEFVEA–SHOULD NOT BE ABLT TO START PGM IEFOSC0 1 FROM JCL	X00228 F020
SC188 INCORROUT	IEFVHA–PROC WITH OVERRIDING SYSIN DD * CAUSES NULL STATEMENT	X00252 F020 S/ZAP
SC188 PERFM	IEE1103D–FAILS TO ASK TO RELOAD UCS + FCB ON 3211 AFTER VARY	X00273 F020 S/ZAP
SC189 INCORROUT	IEFVHF–OVERRIDE OF CONT JCL STMT IN PROC DOES NOT RECOGNIZE CONT PN	X00264 F020 S/ZAP
SC1CD INCORROUT	EXEC–IFCEXXXA–SENSE PRINTOUT + CORRELATION NUMBER FOR 3211.	X00048 F020 00040
SC1CE ABEND500	EXEC–IGC0008E–ABEND500 AFTER SVC 15 BECAUSE GPR 7 ALL ZEROS	X00313 F020
SC1CE INCORROUT	EXEC–IGC0408E–DDR CAUSES SVC 91 TO PGM CHK DURING TAPE SWAP	X00312 F020
SC1CE INCORROUT	EXEC–IGC0608E–SL TAPES NOT VERIFIED CORRECTLY ON MULTI–VOL BY DDR	X00311 F020
SC1CE INCORROUT	EXEC–IGC0708E–CAUSES INCORRECT EREP PRINTOUT AFTER 3330 SWAP.	X00072 F020 00050
SC1CE INCORROUT	EXEC–IGFDDRSR–DURING SYSRES SWAP CAUSES UCBERR FLG ON ON CONSOLE.	X00057 F020 00051
SC1CE WAIT0A03	EXEC–IGFVMCE0–PGM CHK IF MONITOR CALL INTERRUPTS ENABLED–CTL REG8	X00052 F020
SC1C3 ABEND 0C5	IECIPR IECIPR12 IECIPR1A IECIPR1B 0C5 IN IEECMWSV DURING EXECUTION.	X00229 F020 00057
SC1C3 ABEND0C4	IGC0001F–PURGE–SVC16–CVT AND TCB REGISTERS NOT INITIALIZED 11/07/7	X00287 F020
SC1C3 ABEND0C5	IECIPR–DURING CLOSE WHILE RUNNING IEBUPDTE	X00287 F020
SC1C3 DOC	GC38–1003–0 OS/VS MESSAGE LIBRARY, SYSTEM CODES. CODE 400 IN ER.	X00267 F020 PUBCH
SC1C3 DOC	GC38–1003–0 OS/VS MESSAGE LIBRARY, SYSTEM CODES. CODE 400 IN ER. CO	X00267 F020 PUBCH
SC1C3 INCORROUT	EXEC–IECXCP–SMF TYPE RECORDS DO NOT CONTAIN EXCP COUNT.	X00278 F020
SC1C3 INCORROUT	IECXCP IECIOSB ASSEM ERROR IN IOS WHEN APR IS SPECIFIED.	X00046 F020 00038
SC1C3 LOOP	IECIOSB LOOP AT LABEL TCCWS510 FOR SEVEN INSTRUCTIONS.	X00804 F020 00057
SC1C3 MSGIEA000I	IECINT–SEEK CHECK USING BDAM APPLICATIONS	X00297 F020
SC1C3 MSGIEA778I	GC38–1001–UNDOCUMENTED MSG ON PAGE DEVICE IO ERROR.	X00472 F020 PUBCH
+SC1C3 MSGIF0203	GC26–3791–GEN IECIOQE IOS NOT SUPPORTING UCB + RQE ADDR ABOVE 32.	X00486 F020 PUBCH
SC1C3 WAIT	IGFVMCF6 SYS WAIT AFTER SUCCESSFUL RECOVERY FROM MACH CK.	X00047 F020 00039
SC1C3 WAIT903	IECIOSB IECXCP PGMCHK UNRESOLVED LABEL BLDLST03+1.	X00805 F020 00057
SC1C5 ABEND	EXEC–IEAATC–SUBTASK ENVIRONMENT–FRB FROM WRONG SUBP OOL	X00270 F020
SC1C5 ABENDC13	EXEC–IGC0001C–IN TASK TRYING TO USE A GRAPHICS DEVICE.	X00003 F020 00003
SC1C5 ABEND0C6	EXEC–IEAPGEX–USER REGS DESTROYED AT SPIE EXIT.	X00239 F020 00062
SC1C5 ABEND0C9	EXEC–IEA0TI03–MIDNIGHT TQE BAD–UPDATED EARLY THEN 0 C9 WHEN REFER	X00056 F020 00055
SC1C5 ABEND60A	EXEC–IEANTM01–IEANTM0C–RUNNING WITH SUBTASKING	X00037 F020
SC1C5 INCORROUT	CMPL–PGRLSE–INVALID BRANCH GENERATED FOR LIST FORM.	X00240 F020 00064
&SC1C5 INCORROUT	EXEC–IEAAIH00 R9 USED IN PROG CHECK FLIH AND NOT RESTORED	X00262 F020 00074
SC1C5 INCORROUT	IEAAIH–SVC FLIH SUPVSR LOCK A BACKUP OF SVC PSW BY TWO.	X00253 F020

CMPNT–SYMPTOM	DESCRIPTION	****OS/VS****	APAR NO. FIXED–ACTION
SC1C5 LOOP	EXEC–IEAAIH–IOS IS BEING REENTERED AT THE ENABLE DISABLE POINT.		X00236 F020
+SC1C5 LOOP	IEAATA–GETMAIN ABEND LOOP WHEN TERMINATING CICS		X00247 F020 00079
SC1C5 LOOP	IEAATC–WHEN RUNNING OUT OF FIXED PQA		X00243 F020
&SC1C5 MSGIEA000I	EXEC–IGC0005A–OVERRUN TRYING TO WRITE SYS1.DUMP		X00249 F020 00069
SC1C5 PERFM	EXEC–IEAATA–IRB OF DAUGHTER NOT FREED ON EXIT FROM DAUGHTER TASK.		X00241 F020 00063
SC1C5 PERFM–	MODESET–MACRO IS NOT IN THE SYSTEM		X00474 F020
SC1C5 WAIT	EXEC–IEAATC–DISABLED WAIT RUNNING IN TRANSIENT AREA LOADING TASK		X00141 F020 00037
&SC1C5 WAIT	IEAAD0F–SVC51 SETS BIT IN TCB BUT NEVER CLEARS BIT		X00817 F020 00075
+SC1C5 WAIT	IEAAPS–IECINT–WITH ALL TASKS BELOW PARTITION ZERO DEACTIVATED		X00810 F020
SC1C5 WAIT903	EXEC–IEFSMFAT–PAGE EXCEPTION–TIOT ADDRESS–WHILE IOS SWITCH ON		X00237 F020 00027
SC1C8 ABEND0C1	EXEC–IEAANIP–ASSEMBLY ERRORS AT SYSGEN TIME		X00234 F020
SC1C8 PERFM	EXEC–SGIEAGSV–NEW BLDL RSVC + RAM LISTS AS SYSTEM DEFAULT.		X00150 F020 00031
SC1D8 ABEND0CX	IGG0199W PL/1 COMPILERS PROGRAM CHECK DURING CLOSE OF SPOOLED DATA		X00008 F020 00009
SC1D0 ABEND	IGGR19BH TURNS SITE BIT OFF FOR UNDEFINED LENGTH RECORDS		X00288 F020
SC1D0 ABENDF37	IGG0198G,BSAM PAPER TAPE EOV–BAD DATA IN REG 1		X00400 F020
SC1D0 ABEND0CX	IGG0191C,0CX WHEN IGG019AV REMOVED FROM RAM LIST		X00009 F020 00009
SC1D0 ABEND0CX	IGG0196W GETMAIN IS NOT BEING DONE FOR 3211 WORK AREA		X00010 F020 00009
SC1D0 ABEND0C5	IGC0906H SYNADEF AFTER BSAM I/O ERROR		X00367 F020
SC1D0 ABEND001	IGG019BB WRONG LENGTH RECORD BSAM RECFM=U. AFTER READ.		X00292 F020 S/ZAP
SC1D0 ABEND001	IGG0197C–IGG0197D,RUNNING 1419 SAMPLE PROG		X00306 F020 CRCMV
SC1D0 ABEND01	SC1D0–IGGR19BH– WRONG LENGTH RECORD ON BSAM READ RECFM=U, BECAUSE S		X00154 F020
SC1D0 ABEND300	IGC0010E IGC00020 THE POINTER TO THE DEB IN THE DCB IS NOT VALID,		X00397 F020
SC1D0 INCORROUT	IGG019AR LAST RECORD OF FIRST VOLUME IS READ TWICE		X00156 F020
SC1D0 INCORROUT	IGG0191C USE OF DD DUMMY WITH BAD BLOCKSIZE DOES NOT RESULT IN AN 0		X00377 F020
SC1D0 INCORROUT	IGG0191T NO MCS FLAG, ROUTE CODES OR DESCRIPTOR CODES,		X00398 F020
SC1D0 INCORROUT	IGG0196I IGG0196A DEB ADDR IN DCB OVERLAID BY ANOTHER TASK		X00431 F020
SC1D0 INCORROUT	SGIEC0UC THE H11 IMAGE IN SYSGEN MACRO SGIEC0US IS BAD		X00013 F020
SC1D0 MSGIEC124I	IGG0197E THE LENGTH FIELD FOR MESSAGE IEC124I IS X"30" INSTEAD OF X		X00399 F020
SC1D1 ABEND0CX	IFG0202I IGG0200J ABENDS WITH 0C5 BECAUSE OF BAD REG A		X00364 F020
SC1D1 ABEND0C5	IFG0200V,SMF PROG CHECK LOOP AFTER START INIT		X00022 F020 00014
SC1D1 ABEND106	IFG0200Y TASKS ABEND WITH 106 WHEN TRYING TO FETCH IGG020P1		X00299 F020 CRCMV
SC1D1 ABEND213	IFG0195P,ISAM–BDAM READING FMT3 DSCB ON SECOND VOL.		X00121 F020 S/ZAP
SC1D1 ABEND613	IFG0552V ABEND ON TAPE OPEN RDBACK, REREAD FEOV CLOSE		X00125 F020 S/ZAP
SC1D1 ABEND737	D1508 IFG0554N FEOV WITH RC=10 IN MSGIEC027I		X00376 F020 S/FIX
SC1D1 INCORR	SC1D1–IFG0202A–IFG0202C–IFG0552R–IFG0553P–IFG0554L– INCORRECT USER		X00023 F020 00013
SC1D1 INCORRECT	IFG0196M OPEN MODULE IFG0196M MAKES AN INCOMPLETE TEST FOR RECFM=D.		X00359 F020
SC1D1 INCORROUT	FREEPOOL LEAVES 8 BYTES OF CORE. OPEN ERRONEOUSLY SET DCBBFALN=F		X00123 F020 S/ZAP
SC1D1 INCORROUT	IGG0230D TCLOSE REREAD DOES NOT REPOSITION DCB POINTER		X00130 F020
SC1D1 MSGIEC147I	IECPDINI IFG0190P IEC147I ISSUED WITH ABEND713 MSG SHOULD BE IEC148		X00127 F020
SC1D1 PERFM	IGC0002G,PARALLEL OPEN DEGRADES PERFORMANCE		X00356 F020
SC1D1 PERFM	IGC0002I SCRATCH INCORRECTLY VALIDITY CHECKS PARAMETER LIST		X00362 F020
SC1D4 MSGIEF133I	MSG IEF133I ISSUED IN ERROR RETURN CODE 64 SHOULD BE 1C.		X00450 F020
SC1D7 ABENDA0A	IGC0005C IGG019KC A0A ABEND IN IGC0005C TRYING TO FREE IOB TWICE.		X00440 F020 S/ZAP
SC1D7 INCORROUT	IGGR19KM,3330 SPACE CALC ERROR WHEN RECORD SPANS 3 TRACKS		X00014 F020
SC1D7 INCORROUT	IGG019KJ–IGG019KL DYNAMIC BUFFERING, "S" CODED FOR KEY ADDR. KEY IS		X00093 F020
SC1D7 INCORROUT	IGG019LC WRONG TTR FEEDBACK WHEN READING BY KEY WITH EXTENDED SEARC		X00088 F020
SC1D7 INCORROUT	IGG019LC WRONG TTR FEEDBACK WHEN READING BY KEY WITH EXTENDED SEARC		X00088 F020
SC1D7 MSGIEW1082	IGGR19K0–IGG019LA PTF00192 CAUSES MSGIEW0192		X00442 F020
SC1D7 WAIT	IGGR19KN–IGG019JB–IGG019KL,WAIT IN SVC1		X00447 F020
SC1D7 WAIT	IGG0191L,CHANNEL PROG CHECK BDAM CREATE AND TRACK OVERFLOW		X00435 F020
SC1D7 WAIT903	IGG0193G DUE TO PAGE EXCEPTION WHEN BDAM I/O APPN CROSSES 2K BOUN		X00363 F020 S/ZAP
SC1D8 ABEND0C5	LOAD MODE WITH NO WRITE CHECK MAY PROGRAM CHECK IN IGG0192R.		X00289 F020 S/ZAP
SC1D8 ABEND001	IGG019HA IGG019GG IGG019JH IGG019JG ISAM DATA SET RESIDES ON RPS DE		X00021 F020 00012
SC1D8 ABEND03E	IGG0195G OUT OF SPACE WITH ONE RECORD ON SECOND TO LAST TRACK		X00360 F020
SC1D8 ABEND806	IGG0192R IGG0192J OPEN LOAD PARAMETER LIST OVERLAID		X00020 F020 00012

CMPNT–SYMPTOM	DESCRIPTION	****OS/VS****	APAR NO. FIXED–ACTION
SC1D8 INCORROUT	IGG019H3–IGG019H7 BISAM READ CP4 POINTER IN DCB WORKAREA INVALID	X00394 F020	
SC1D8 INCORROUT	INVALID OVERFLOW CHAINS WITH DISP=SHR	X00448 F020	
SC1D8 LOOP	IGG0202I,LOOP IN IGG019GA DUE TO REG 4 ISLFBW EQUALS ZERO.	X00001 F020	00001
SC1D9 WAIT	IGG019DG WHEN I/O ERROR OCCURS REG 15 BAD	X00012 F020	00009
SC1I0 LOOP	IBCDMPRS,AT EOV OF FIRST TAPE VOLUME	X00110 F020	
SC1S1 ABEND837	SGASMPAK INSUFFICIENT SYSUT2 SPACE ALLOCATED BY SYSGEN JOBSTREAM	X00296 F020	CRCMV
SC1S1 ABEND0F5	SGIE1DS IFG0554Z ADD EXCEPTION IN IGC019 BAD REG 13	X00303 F020	CRCMV
SC1S1 INCORRECT	GENERATE SVC 87 INTABLE AS WRONG TYPE IF MCS CONSOLES IN SYSTEM	X00293 F020	S/FIX
SC1S1 INCORROUT	SGIE11DS INCORRECT OUTPUT DURING STAGE I SYSGEN –	X00235 F020	
SC1S2 PERFM	SRL–GC24–5092–STARTER SYSTEM I/O ADD RESTRICTIONS W/ICA FEATURE	X00200 F020	PUBCH
SC1S5 INCORROUT	SGIEF442–SYSGEN FAILS TO GEN "ORDER" CARD FOR CSECT IEFSD161.	X00396 F020	
SC1U0 INCORROUT	IGC0208BIEHDASDR UNIT MARKED NOT READY BEFORE SVC91	X00294 F020	
SC1U0 PROGCK	IEHDEXCP 0C1 ABEND USING DUMP FUNCTION OF IEHDASDR	X00112 F020	
SC10A ABEND400	IHKPUT–IHKRER–DUE TO OVERLAID IOB IN QMPA	X00337 F020	
SC103 INCORROUT	EXEC–IFNX1A–ATTRIBUTE ERROR IN INNER MACROS CALLED BY +SYSLIST	X00217 F020	00067
SC104 ABEND0C4	HEWLFROU– LKED HEWLFEND 0C4 TRYING TO LKED VERY LARGE FORTRAN PROG	X00300 F020	S/ZAP
SC104 ABEND0C4	HEWLMEND LARGE PL11 LINKEDIT ABENDS 0C4	X00368 F020	S/ZAP
SC104 INCORROUT	HEWLFESD LINK EDIT NOT RESOLVING RLD TO BLANK COMMON	X00027 F020	00020
SC104 INCORROUT	HEWLFESD THE LINKAGE EDITOR RESOLVED A VCON INCORRECTLY.	X00822 F020	S/FIX
SC104 MSGIEW0294	HENLFOUT HEWLFRAT MSG IEW0294 ISSUED IN ERROR	X00029 F020	00020
SC106 INCORROUT	EXEC–IFDOLT15–R1255AA TEST FAILS	X00148 F020	00047
SC106 INCORROUT	EXEC–IFDOLT55–USING REI CAN NOT ENTER REQ PARAMETER	X00149 F020	00047
SC106 INCORROUT	EXEC–IFDOLT56–DASDI ERROR DATA NOT PRINT AFTER TERM INATING RETAIN	X00209 F020	S/ZAP
SC106 INCORROUT	IFDOLT00–T2955Z TERMINATED NO RESTART FOR OLTEP	X00146 F020	00047
SC106 INCORROUT	IFDOLT05–06–T1403A–B–D–E OLD 360 TESTS CAUSE ERROR REL 20	X00147 F020	S/ZAP
SC106 INCORROUT	OLT–IFDOLT30–COMMUNICATION INTERVAL–NEW DEV/TEST RQST NOT HONORED	X00073 F020	00047
SC106 INCORROUT	T1403–A–IFDOLT48–MSGS NOT ROUTED TO CONSOLE	X00145 F020	00047
SC107 INCORROUT	EXEC–IFFAGA07–CALL TO ORGEN OVERLAYS GTRU GIVES WRONG DISPLAY	X00320 F020	
SC107 INCORROUT	IFFAHA04–2250 OPTIMIZED VECTORS MAY BE BAD IF ZAP FOR P47520 ON	X00315 F020	
SC107 PERFM	IFFAGA07–UNABLE TO OMIT CORRELATED ENTITY AFTER CALL TO ORGEN	X00318 F020	
SC107 PERFM	IFFAHA13–UNABLE TO OMIT AFTER CALL TO PTEXT WITH UPDATE	X00319 F020	
SC111 INCORROUT	GTF–IMDMEDIT–MACRO ASSEMBLY ERROR INVALID PROTOTYPE STMT	X00201 F020	00029
SC113 ABEND0C4	EXEC–HMDPRLOD–TRYING TO CLEAR SYS1.DUMP DATA SET	X00208 F020	
SC113 ABEND0C9	HMDPRDMP–WHEN PRINTING A SADUMP	X00039 F020	
SC113 INCORROUT	HMDPRPCR–INCORR P/P BOUNDARIES USED FOR ABENDING SUBTASK	X00211 F020	
SC116 INCORROUT	HMAPTF01–DOES NOT CORRECTLY PROCESS PTFS WITH 10 OBJECT MODULES	X00212 F020	S/ZAP
VSPTF SC18E–00048	5741–VS–PTF 00048 IS AVAILABLE	00048 F020	CHART
VSPTF SC18F–00004	5741–VS–PTF 00004 IS AVAILABLE	00004 F020	CHART
VSPTF SC1B2–00005	5741–VS–PTF 00005 IS AVAILABLE	00005 F020	CHART
VSPTF SC1B3–00023	5741–VS–PTF 00023 IS AVAILABLE	00023 F020	CHART
+VSPTF SC1B3–00023	6 SUPERSEDED BY 00072 11/15/72,PO"KEEPSIE	00023 F020	
VSPTF SC1B3–00023	7 PTF IN ERROR–TAPE 7201 VS	00023 F020	
VSPTF SC1B3–00025	5741–VS–PTF 00025 IS AVAILABLE.	00025 F020	CHART
VSPTF SC1B3–00061	5741–VS–PTF 00061 IS AVAILABLE	00061 F020	CHART
+VSPTF SC1B3–00072	PTF00072 AVAILABLE 11/13/72 TAPE 7205	00072 F020	CHART
VSPTF SC1B4–00049	5741–VS–PTF 00049 IS AVAILABLE	00049 F020	CHART
VSPTF SC1B6–00022	5741–VS–PTF 00022 IS AVAILABLE	00022 F020	CHART
VSPTF SC1B6–00060	5741–VS–PTF 00060 IS AVAILABLE	00060 F020	CHART
+VSPTF SC1B7–00071	PTF 00071 AVAILABLE 11/13/72 TAPE 7205	00071 F020	CHART
VSPTF SC1B8–00006	5741–VS–PTF 00006 IS AVAILABLE	00006 F020	CHART
VSPTF SC1CD–00040	5741–VS–PTF 00040 IS AVAILABLE	00040 F020	CHART
VSPTF SC1CE–00018	5741–VS–PTF 00018 IS AVAILABLE	00018 F020	CHART
VSPTF SC1CE–00032	5741–VS–PTF 00032 IS AVAILABLE	00032 F020	CHART
VSPTF SC1CE–00033	5741–VS–PTF 00033 IS AVAILABLE	00033 F020	CHART
VSPTF SC1CE–00043	5741–VS–PTF 00041 IS AVAILABLE	00043 F020	CHART

CMPNT–SYMPTOM	DESCRIPTION	****OS/VS****	APAR NO. FIXED–ACTION
VSPTF SC1CE-00050	5741-VS-PTF 00050 IS AVAILABLE		00050 F020 CHART
VSPTF SC1CE-00051	5741-VS-PTF 00051 IS AVAILABLE		00051 F020 CHART
VSPTF SC1CE-00052	5741-VS-PTF 00052 IS AVAILABLE		00052 F020 CHART
VSPTF SC1CH-00002	5741 VS PTF 00002 IS AVAILABLE		00002 F020 CHART
VSPTF SC1CJ-00037	5741-VS-PTF 00037 IS AVAILABLE		00037 F020 CHART
VSPTF SC1C3-00038	5741-VS-PTF 00038 IS AVAILABLE		00038 F020 CHART
VSPTF SC1C3-00039	5741-VS-PTF 00039 IS AVAILABLE		00039 F020 CHART
VSPTF SC1C3-00057	PTF 00057 AVAILABLE 10/27/72		00057 F020 CHART
+VSPTF SC1C3-00065	PTF0065 AVAILABLE 11/13/73 TAPE 7205		00065 F020 CHART
VSPTF SC1C5-00003	PTF 00003 AVAILABLE 10/27/72		00003 F020 CHART
VSPTF SC1C5-00008	5741-VS-PTF 00008 IS AVAILABLE		00008 F020 CHART
VSPTF SC1C5-00011	5741-VS-PTF 00011 IS AVAILABLE		00011 F020 CHART
VSPTF SC1C5-00027	PTF 00027 AVAILABLE 10/27/72		00027 F020 CHART
VSPTF SC1C5-00028	5741-VS-PTF 00028 IS AVAILABLE		00028 F020 CHART
VSPTF SC1C5-00030	5741-VS-PTF 00030 IS AVAILABLE		00030 F020 CHART
VSPTF SC1C5-00042	5741-VS-PTF 00042 IS AVAILABLE		00042 F020 CHART
VSPTF SC1C5-00046	5741-VS-PTF 00046 IS AVAILABLE		00046 F020 CHART
VSPTF SC1C5-00055	5741-VS-PTF 00055 IS AVAILABLE		00055 F020 CHART
VSPTF SC1C5-00056	5741-VS-PTF 00056 IS AVAILABLE		00056 F020 CHART
VSPTF SC1C5-00059	5741-VS-PTF 00059 IS AVAILABLE		00059 F020 CHART
VSPTF SC1C5-00059	6 SUPERSEDED BY 00027 11/01/72,PO"KEEPSIE		00059 F020
VSPTF SC1C5-00063	PTF 00063 AVAILABLE 10/20/72		00063 F020 CHART
+VSPTF SC1C5-00063	6 SUPERSEDED BY 00079 11/15/72,PO"KEEPSIE		00063 F020
VSPTF SC1C5-00064	PFT 00064 AVAILABLE 10/27/72		00064 F020 CHART
+VSPTF SC1C5-00069	PTF00069 AVAILABLE 11/13/72 TAPE 7205		00069 F020 CHART
+VSPTF SC1C5-00073	PTF00073 AVAILABLE 11/13/72 TAPE 7205		00073 F020 CHART
+VSPTF SC1C5-00074	PTF00074 AVAILABLE 11/13/72 TAPE 7205		00074 F020 CHART
+VSPTF SC1C5-00075	PTF 00075 AVAILABLE 11/13/72		00075 F020 CHART
+VSPTF SC1C5-00079	PTF 00079 AVAILABLE 11/13/72 TAPE 7205		00079 F020 CHART
VSPTF SC1C8-00031	5741-VS-PTF 00031 IS AVAILABLE		00031 F020 CHART
VSPTF SC1C8-00031	9 CONTINUED		00031 F020
VSPTF SC1C8-00031	91 CONTINUED		00031 F020
VSPTF SC1D0-00035	5741-VS-PTF IS AVAILABLE		00035 F020 CHART
VSPTF SC1D0-00054	5741-VS-PTF 00054 IS AVAILABLE		00054 F020 CHART
VSPTF SC1D1-00013	5741-VS-PTF 00013 IS AVAILABLE		00013 F020 CHART
VSPTF SC1D1-00014	5741-VS-PTF 00014 IS AVAILABLE		00014 F020 CHART
VSPTF SC1D7-00010	5741-VS-PTF 00010 IS AVAILABLE		00010 F020 CHART
VSPTF SC1D8-00001	PTF 00001 IS AVAILABLE TAPE NUMBER 7201		00001 F020 CHART
VSPTF SC1D8-00012	5741-VS-PTF 00012 IS AVAILABLE		00012 F020 CHART
VSPTF SC1D8-00053	5741-VS-PTF 00053 IS AVAILABLE		00053 F020 CHART
VSPTF SC1I1-00034	5741-VS-PTF 00034 IS AVAILABLE		00034 F020 CHART
VSPTF SC100-00045	5741-VS-PTF 00045 IS AVAILABLE		00045 F020 CHART
VSPTF SC103-00007	5741-VS-PTF 00007 IS AVAILABLE		00007 F020 CHART
VSPTF SC103-00041	5741-VS-PTF 00041 IS AVAILABLE		00041 F020 CHART
VSPTF SC103-00067	PTF 00067 AVAILABLE 10/27/72		00067 F020 CHART
VSPTF SC104-00020	5741-VS-PTF 00020 IS AVAILABLE		00020 F020 CHART
VSPTF SC106-00047	5741-VS-PTF 00047 IS AVAILABLE		00047 F020 CHART
VSPTF SC113-00029	5741-VS-PTF 00029 IS AVAILABLE		00029 F020 CHART

Part 4, Section 3: Program Temporary Fixes Resolved

The following program temporary fixes (PTFs) have been incorporated into the operating system with Release 2.

Program Temporary Fixes - Release 02.0

PTF Number	Components(s)
370X-00001-2	5741-SC1-D8
370X-00002-2	5741-SC1-CH
370X-00003-2	5741-SC1-C5
370X-00004-2	5741-SC1-BF
370X-00005-2	5741-SC1-B2
370X-00006-2	5741-SC1-B8
370X-00007-0	5741-SC1-03
370X-00008-2	5741-SC1-C5
370X-00009-2	5741-SC1-D0
	5741-SC1-D9
	5741-SC1-DB
370X-00010-2	5741-SC1-D7
370X-00011-2	5741-SC1-C5
370X-00012-2	5741-SC1-D8
370X-00013-2	5741-SC1-D1
370X-00014-2	5741-SC1-D1
370X-00015-0	5741-SC1-C5
370X-00016-2	5741-SC1-04
370X-00017-0	5741-SC1-C5
370X-00018-2	5741-SC1-CE
370X-00020-2	5741-SC1-04
370X-00021-2	5741-SC1-B6
370X-00022-2	5741-SC1-B6
370X-00023-2	5741-SC1-B3
370X-00025-2	5741-SC1-B3
370X-00026-0	5741-SC1-C3
	5741-SC1-C5
370X-00027-2	5741-SC1-C5
370X-00028-2	5741-SC1-CM
370X-00029-2	5741-SC1-13
370X-00030-2	5741-SC1-C5
370X-00031-0	5741-SC1-C8
370X-00032-2	5741-SC1-CE
370X-00033-2	5741-SC1-CE
370X-00034-0	5741-SC1-I0
	5741-SC1-I1
370X-00035-2	5741-SC1-D0
370X-00036-2	5741-SC1-D7
370X-00037-2	5741-SC1-CJ
370X-00038-2	5741-SC1-C3
370X-00039-2	5741-SC1-C3
370X-00040-0	5741-DN5-27
370X-00041-0	5741-SC1-03
370X-00042-2	5741-SC1-C5
370X-00043-2	5741-SC1-CE
370X-00045-2	5741-SC1-00
370X-00046-2	5741-SC1-CJ
370X-00047-1	5741-SC1-06
370X-00048-2	5741-SC1-BE
370X-00049-2	5741-SC1-B4
370X-00050-2	5741-SC1-CE
370X-00051-2	5741-SC1-CE
370X-00052-2	5741-SC1-CE
370X-00053-2	5741-SC1-D8
370X-00054-2	5741-SC1-D4
370X-00055-2	5741-SC1-C5
370X-00056-2	5741-SC1-C5
370X-00057-2	5741-SC1-C3
370X-00058-2	5741-SC1-U0
370X-00059-2	5741-SC1-C5
370X-00060-2	5741-SC1-B6
370X-00061-0	5741-SC1-B3
370X-00062-2	5741-SC1-C5
370X-00063-2	5741-SC1-C5
370X-00064-2	5741-SC1-C5
370X-00065-2	5741-SC1-C3
370X-00067-2	5741-SC1-03
370X-00068-2	5741-SC1-CA
370X-00069-2	5741-SC1-C5

PTF Number	Component(s)
370X-00071-2	5741-SC1-B7
370X-00072-2	5741-SC1-B3
370X-00073-2	5741-SC1-C5
370X-00074-2	5741-SC1-C5
370X-00075-2	5741-SC1-C5
370X-00076-2	5741-SC1-C5
370X-00077-2	5741-SC1-C3
370X-00078-2	5741-SC1-B7
370X-00079-2	5741-SC1-C5
370X-00082-0	5741-SC1-C5
370X-00084-0	5741-SC1-C3
370X-00085-2	5741-SC1-D6
370X-00087-2	5741-SC1-C5
370X-00088-2	5741-SC1-C5
370X-00093-0	5741-SC1-D7
370X-00094-2	5741-SC1-C3
370X-00096-2	5741-SC1-C5
370X-00103-2	5741-SC1-C8
370X-00123-0	5741-SC1-B2
370X-00131-0	5741-SC1-D9

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