APAR VM65317 provides new VMSES/E function to support a mixed-release environment in an SSI cluster. The documentation changes for this new function are as follows:

THE FOLLOWING CHANGES HAVE BEEN MADE TO THE SYSTEM REFERENCE LIBRARIES:
START PUBLICATION CHANGE*******
PUBLICATION TITLE: z/VM VMSES/E Introduction and Reference

RELEASE: 6.2.0

ORDER NUMBER: GC24-6243-01

CHAPTER: 12
PAGE: 135
ABSTRACT: Add BYPASSED to list of states in build status table

BODY: In the section entitled "Software Inventory Files Used by the VMFBLD EXEC", under the heading "Build Status Table", the status of BYPASSED needs to be added to the list of states in the last sentence of the first paragraph.

CHAPTER: 12
PAGES: 135-136
ABSTRACT: Add VM SYSPINV to list files used by the VMFBLD EXEC

BODY: In the section entitled "Software Inventory Files Used by the VMFBLD EXEC", add the system-level product inventory table (VM SYSPINV) to the section:

System-Level Product Inventory Table
The system-level Product Inventory table specifies which products are installed on which systems or members. It also identifies any products that are superseded by a newer level of the product installed on a system or member. For more information, see "The System-Level Product Inventory Table (VM SYSPINV) on page 735.

CHAPTER: 13
PAGES: 162-164
ABSTRACT: Update syntax for PRODLEV record in SERVICE $PRODS file

BODY: In the section entitled "The SERVICE $PRODS File", update the syntax of the PRODLEV record in the SERVICE $PRODS file as follows:

servlvl
is the service level of the product.

CHAPTER: 13

PAGES: 164-165
ABSTRACT: Replace section "The systemid $PRODS file"

BODY: Replace the section entitled "The systemid $PRODS file" with the following:

The systemid $PRODS file

The systemid $PRODS file contains the same records and syntax as the SERVICE $PRODS file, with the exception of the following:

* The DCL variable value &fromvarn is replaced, for specific records, with minidisk-specific values or SFS-specific values. Similarly, the DCL variable value &tovarn is replaced with minidisk-only specific values.

* COPYPART, ERASEPART, COPYHELP, and ERASEHELP record syntax:

```
>>--recid--compname-.-COPYPART--.--.--from_userid--from_vdev--.------------>
                           |-ERASEPART-|    '--DIR--from_dirid------------'
                           |-COPYHELP---|
                           '-ERASEHELP--'
                                                    v-------------------------.
>--to_userid--to_vdev---.-NONE----.--prodid---filename--filetype--.--------><
                          '-UPCASE-'
```

DDRCMS record syntax:

```
                                                                v------------------------.
>>--recid--compname--DDRCMS--to_userid--to_vdev---filename--filetype--.-----><
```

The systemid $PRODS file can contain an ERROR record. The format is:

```
>>-recid-compname--ERROR--to_userid--to_vdev--------------------------><
```

The changed variables and values that pertain to these records are:

from_userid
is the owning user ID of the test build disk.

from_vdev
is the address of the test build disk.

from_dirid
is the fully-qualified SFS directory of the test build directory.

to_userid
is the owning user ID of the production build disk.

to_vdev
is the address of the production build disk.

All remaining variables are described under "The SERVICE $PRODS File" on page 162.

CHAPTER: 20
PAGE: 281

ABSTRACT: Add new usage note to LOCALMOD EXEC documentation

BODY: In the "Usage Notes" section for the "LOCALMOD EXEC", add a new usage note as follows:

11. Creating or reworking a local modification for a cross-system highest release level program residing on the SSI system common disk (PMAINT 551, by default) must be done from a member which has the highest release of the product installed in the SSI cluster.

CHAPTER: 20
PAGES: 333-338
ABSTRACT: Add HLVLCHK to Table 18 "Build List Options"

BODY: In Table 18 "Build List Options", add the new build list option HLVLCHK to part handlers VMFBDCOM ("Replacement Objects"), VMFBDMOD ("Modules") and VMFBDPMD ("Modules with CPLINK"):

>>--HLVLCHK---><

specifies that VMFBDxxx will do highest release level checking when processing objects in the build list. Objects in the build list will always be built in a single-system environment, but will only be built when running the build on a member of an SSI cluster that is running the highest release level of the associated product.

CHAPTER: 20
PAGE: 341
ABSTRACT: Add VM SYSPINV file to VMFBLD EXEC documentation

BODY: In the section entitled "Input and Output Files under the documentation for the VMFBLD EXEC, add the following file to the "Input Files" section:

VM SYSPINV	The system-level product inventory table.

CHAPTER: 20
PAGE: 341
ABSTRACT: Add appid $HLVLSRV file to VMFBLD EXEC documentation

BODY: In the section entitled "Input and Output Files under the documentation for the VMFBLD EXEC, add the following file to the "Input/Output Files" section:

appid $HLVLSRV	List of serviced parts and associated build requirements for cross-system highest release level objects.

CHAPTER: 20
PAGE: 358
ABSTRACT: Add HLVLCHK to "Objects Serviced by Complete Replacement" section

BODY: In the section entitled "Objects Serviced by Complete Replacement", add

the new build list option HLVLCHK to the "Build List Options (Replacement Objects)" section for the VMFBDCOM part handler:

```
>>--HLVLCHK-------------------------------------------------------><
```

specifies that VMFBDCOM will do highest release level checking when processing objects in the build list. Objects in the build list will always be built in a single-system environment, but will only be built when running the build on a member of an SSI cluster that is running the highest release level of the associated product.

CHAPTER: 20
PAGE: 368
ABSTRACT: Add HLVLCHK to "Executable Modules" section

BODY: In the section entitled "Executable Modules", add the new build list option HLVLCHK to the "Build List Options (Modules)" section for the VMFBDMOD part handler:

```
>>--HLVLCHK-------------------------------------------------------><
```

specifies that VMFBDCOM will do highest release level checking when processing objects in the build list. Objects in the build list will always be built in a single-system environment, but will only be built when running the build on a member of an SSI cluster that is running the highest release level of the associated product.

CHAPTER: 20
PAGE: 368
ABSTRACT: Add HLVLCHK to "Executable Modules When Using CPLINK or BIND" section

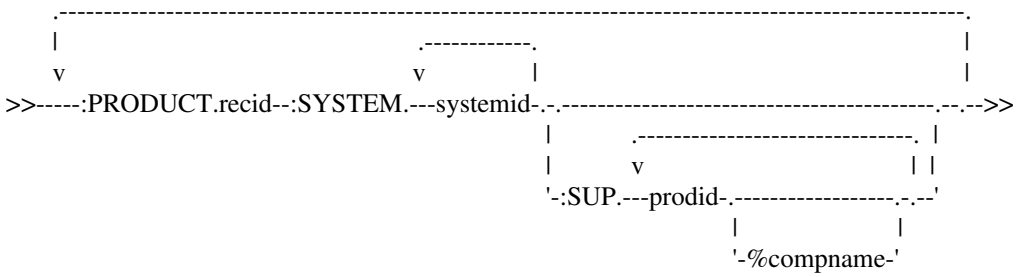
BODY: In the section entitled "Executable Modules When Using CPLINK or BIND", add the new build list option HLVLCHK to the "Build List Options (Modules using CPLINK or BIND)" section for the VMFBDPMD part handler:

```
>>--HLVLCHK-------------------------------------------------------><
```

specifies that VMFBDCOM will do highest release level checking when processing objects in the build list. Objects in the build list will always be built in a single-system environment, but will only be built when running the build on a member of an SSI cluster that is running the highest release level of the associated product.

CHAPTER: 22
PAGE: 736
ABSTRACT: Update syntax for system-level product inventory table

BODY: In the section entitled "The System-Level Product Inventory Table (VM SYSPINV)", update the syntax of the system-level product inventory table as follows:



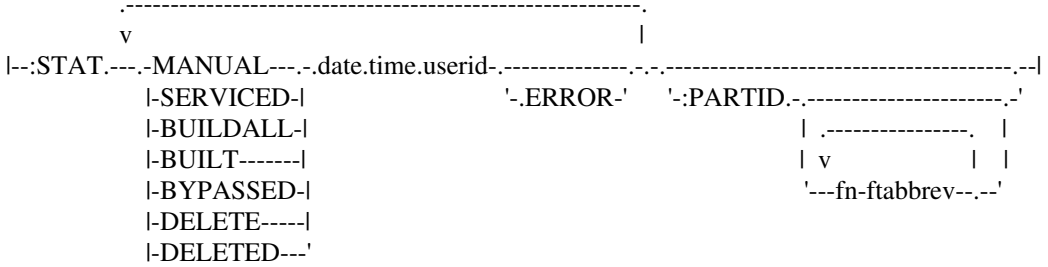
:SUP.
identifies products replaced (superseded) by this product, such as a new version or release of a product. That is, the value of this tag is a list of the PRODIDs which the product in the :PRODUCT tag supersedes.

prodid
is the 7-8 character alphanumeric identifier assigned to the product by IBM (for example, 1VMVMC23).

%compname
is the component name preceded by a percent sign (%), for example %CMS. compname is a 1-16 character alphanumeric identifier.

CHAPTER: 22
PAGE: 736
ABSTRACT: Add BYPASSED to syntax of service-level build status table

BODY: In the section entitled "The Service-Level Build Status Table (bldid SRVBLDS)", add the status BYPASSED to the syntax of the :STAT tag of the system-level build status table as follows:



BYPASSED
indicates that the building of an object has been bypassed because the object is superseded by the same object on a higher release level.

CHAPTER: 22
PAGE: 760
ABSTRACT: Update location of the service-level production status table

BODY: In the section entitled "The Service-Level Production Status Table (prodid SRVPROD)", change the sentence

"The service-level production status table resides on the System Inventory disk and is updated by the SERVICE EXEC and the PUT2PROD EXEC."

to

"The service-level production status table resides on the Production Inventory disk (by default, PMAINT 41D) and is updated by the SERVICE EXEC and the PUT2PROD EXEC."

APPENDIX: C
PAGE: 780
ABSTRACT: Update VM SYSPINV entry in Table 31 "Input/Output Files"

BODY: In Table 31 "Input/Output Files", update the entry for the VM SYSPINV file as follows:

File ID	Used as Input by	Provided as Output by	Used as Temporary File by
VM SYSPINV	PUT2PROD, SERVICE, VMFBLD		

END PUBLICATION CHANGE*******
START PUBLICATION CHANGE*******
PUBLICATION TITLE: z/VM CP Planning and Administration

RELEASE: 6.2.0

ORDER NUMBER: SC24-6178-03

CHAPTER: 25
PAGE: 711
ABSTRACT: Add description of Cross-System Highest Release Level Programs

BODY: In Chapter 25 "Setting Up z/VM Single System Image Clusters", add a new section entitled "Cross-System Highest Release Level Programs" after the section entitled "Single Maintenance Stream" and before the section entitled "Common System Configuration File":

Cross-System Highest Release Level Programs

In an SSI cluster, certain resources - for example, the user directory, the system configuration file, the permanent data record (PDR) and shared DASD devices - are shared and managed by all members in the cluster. If the members in an SSI cluster are running different release levels of z/VM, certain programs which manage shared resources are required to be at the highest release level that is running in the cluster. These programs must be on all members in the cluster regardless of the release level running on each member. These "highest release level programs" reside on the SSI system common disk (PMAINT 551, by default).

When a z/VM release which supersedes all other releases running on the members in an SSI cluster is installed on a member of the cluster, z/VM

installation processing places these programs from the superseding release on the SSI system common disk, replacing all programs from the superseded release. When these programs are serviced on the highest release level running in the cluster, the programs are serviced as normal, being built and copied to the SSI system common disk. However, for all members running a lower-level, superseded z/VM release, these programs cannot be built during the service process because this would back-level the parts on the SSI system common disk. Instead, when these programs are serviced on any superseded release running in the cluster, the service process bypasses the building of these parts so that the parts from the highest release level installed in the cluster remain on the SSI system common disk.

CHAPTER: 30
PAGE: 800
ABSTRACT: Add note about decommissioning last highest level release member

BODY: In the section "Before You Begin the Decommissioning Procedure", add the following note to the end of the section:

Note:
In an SSI cluster in which members have different releases installed, if the member being decommissioned is the last member on which the highest release level product is installed, the cross-system highest release level programs residing on the SSI system common disk (PMAINT 551, by default) will remain at that highest release level.

END PUBLICATION CHANGE*******
START PUBLICATION CHANGE*******
PUBLICATION TITLE: z/VM Other Components Messages and Codes

RELEASE: 6.2.0

ORDER NUMBER: GC24-6207-01

CHAPTER: 3
PAGE: 165
ABSTRACT: Add new message VMF1240E

BODY: In the section entitled "VMSES/E Messages", under the heading "VMF002E - VMF1490E", add new message VMF1240E after message VMF1239I and before message VMF1300E:

VMF1240E command cannot be used by user ID userid on system sysname because the acquired Software Inventory Disk does not match the z/VM release (vrm) of this system

Explanation: The user ID listed in the message has invoked the named command on the listed z/VM system. This command cannot be used for its intended purpose on this system, because the z/VM release of the system differs from that of the Software Inventory (disks and SFS directories) that are associated with the given user ID.

System Action: RC=100.

Command processing stops.

User Response: Logoff the current user ID, and logon as the maintenance user ID that is appropriate for the system that is identified by this message. Run the named command while logged on as the latter user ID.

CHAPTER: 3
PAGE: 217
ABSTRACT: Add new message VMF2307E

BODY: In the section entitled "VMSES/E Messages", under the heading "VMF1507E - VMF3064I", add new message VMF2307E after message VMF2306W and before message VMF2307W:

VMF2307E PPF for component compname not found in VM SYSSUF table

Explanation: In the system-level service update facility table (VM SYSSUF), either the indicated component was not found or a product parameter file for the component was not found.

System Action: Command processing stops.

User Response: Confirm that the correct VM SYSSUF table is available and that the VM SYSSUF table content has not been corrupted.

CHAPTER: 3
PAGE: 245
ABSTRACT: Add new messages VMF2890I, VMF2891I and VMF2891W

BODY: In the section entitled "VMSES/E Messages", under the heading "VMF1507E - VMF3064I", add new messages VMF2890I, VMF2891I and VMF2891W after message VMF2886I and before message VMF2900I:

VMF2890I Object objname not {built | deleted}. prodid1 superseded by higher release level product ID prodid2

Explanation: The specified object was not built or not deleted because the product being serviced is superseded by a higher release level product.

System Action: Command processing continues.

User Response: Subsequent messages VMF2891W and/or VMF2891I provide additional information on what action, if any, needs to be taken. Message VMF2891W specifies a corresponding APAR or local modification for the higher release level product that needs to be applied to obtain an updated object or to delete the object. If message VMF2891W specifies an APAR, service should not be placed into production (that is, PUT2PROD should not be run) until that APAR has been applied to the higher release level product. If message VMF2891W specifies a local modification, the modification should be assessed, and applied, if appropriate, before the PUT2PROD command is used. For message

VMF2891I, the corresponding APAR is included in the base of the higher release level product, so no additional action is needed.

VMF2891I APAR aparnum is included in the base higher release level prodid%compname

Explanation: Previous message VMF2890I indicated that an object was not built or not deleted because the product being serviced is superseded by a higher release level product. The specified APAR is included in the base of the higher release level product.

System Action: Command processing continues.

User Response: None.

VMF2891W {APAR aparnum | Local modification modid} needs to be applied on higher release level prodid%compname

Explanation: Previous message VMF2890I indicated that an object was not built or not deleted because the product being serviced is superseded by a higher release level product. The APAR or local modification (or both, if appropriate) specified by this message needs to be applied to the specified higher release level product to obtain an updated object or to delete the object.

System Action: Command processing continues.

User Response: If an APAR number is specified, log on to the maintenance user ID corresponding to the highest release level in the SSI cluster. To determine if the APAR is already applied, issue the command SERVICE prodid%compname STATUS aparnum, where prodid%compname is the specified higher release level and aparnum is the specified APAR. If the APAR is applied, no further action is needed. If it is not applied, apply the specified APAR on the higher release level to obtain an updated object.

If a local modification ID is specified and the local modification applies to the higher release level, log on to the maintenance user ID corresponding to the highest release level in the SSI cluster. To determine if the local modification was already applied, issue the command VMFINFO ppfname compname (SETUP. On the "Serviceable Parts/Usable Forms Query Panel," enter the object name given in previous message VMF2890I and select "Service level of part(s)." If the local modification was already applied, no further action is needed. If it was not applied, apply the specified local modification on the higher release level to obtain an updated object.

CHAPTER: 3
PAGE: 248
ABSTRACT: Add new message VMF2936I

BODY: In the section entitled "VMSES/E Messages", under the heading "VMF1507E - VMF3064I", add new message VMF2936I after message VMF2935E and before message VMF3001E:

VMF2936I command command processing is in progress, which might require several seconds (or minutes) to complete

Explanation: The command indicated in this message was issued. Based on the amount or type of data that has to be processed, the time required for this command to complete can range from several seconds to several minutes. During this period, no messages are displayed on the console.

System Action: Command processing continues.

User Response: None.

END PUBLICATION CHANGE*******