

**Licensed Products Migration Matrix for VM/ESA and z/VM
or
WHAT IS SUPPORTED WHERE for VM
=====**
A Migration Planning Aid

Version 5 Level 3
=====

04/25/05

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About This Document

The following table lists IBM licensed programs that are supported in VM environments (includes: Products, Program Offerings, and PRPQ's). It may be useful to you if your applications depend on one or more of these products. The table is arranged alphabetically by product name.

This document contains information from many different sources.

This information has been collected and verified to the best of our abilities. If you know of an error or a problem please let us know. All input and corrections are welcome and should be directed to the author.

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Definitions

A blank cell indicates that support information for this Version.Release.Modification level was not available at the time of publication. You should contact IBM Service for specific questions.

Some symbols and acronyms used in the table are:

X	Indicates that this Version.Release.Modification level of this product is supported in the environment represented by that column.
na	Mode is not applicable. Product does not run in the host. But is supported with this VM environment.
-	Indicates product is not support by IBM in a given VM environment. Some "AS-IS" products have programming support services available for a fee.
EoS	End of Service (synonym = End of Currency).
FCS	First Customer Ship.
GA	General Availability.
PRPQ	Programming Request for Price Quotation (IBM custom built program products).
TBD	To Be Determined.
WfM	Equates to: Withdrawal from Marketing (synonym = End of Marketing).
	In the left margin denotes new products and note changes since the last version.
* \$ % @ + **	Indicate there is information in the first table note below this row. The information may relate to service or some special information about this product running on a specific level of VM.

Note: Due to space constraints, we cannot list all the information which may be relevant to running a particular product in a particular VM environment. You should always check with your IBM Service representative or on HONE for the latest information on installation and service.

Service for PRPQs ranges from full Central Support, to 100 days of support, to none.

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The following symbols are used in the VM/ESA and z/VM columns:

- 370** Executes in a 370 mode virtual machine using 24-bit addressing, and 370 I/O.
- Tol** Toleration mode: Executes in an XA mode virtual machine using 24-bit addressing and XA I/O. Tol means 370-XA architecture toleration.
- Note:** some translators (eg. HLASM, PL/I V2, PASCAL) will generate code that will use 31-bit addressing.
- Exp** Exploitation mode: Executes in an XA mode virtual machine using 31-bit addressing and XA I/O. Exp means 370-XA architecture exploitation. Some products which exploit 31 bit addressing may require that a segment be saved below the 16 megabyte line. This information is contained in the individual product documentation. I will note this when I have that information.
- Svm** At least one Server machine runs only in a 370 mode virtual machine, user code will run in an XA or XC mode virtual machine.
- XCTol** XC Toleration: Executes in an XC mode virtual machine and is either XA-370 Tolerant (see definition of *Tol* above) or XA-370 Exploitive (see definition of *Exp* above). VM Data Space Support is not exploited.
- XCExp** XC Exploitation: Executes in an XC mode virtual machine and uses/exploits the VM Data Space Support offered by the ESA/XC architecture.
- 370A** 370 Accomodation: On VM/ESA Version 2, program(s) *must* execute in a virtual machine with 370 Accomodation mode set to ON.

New in Version dated 10/26/04

- Added column for z/VM Version 5 Release 1. Changes to records to reflect support for z/VM V5 are not flagged as changes. Only new product additions and changes to records, such as Withdrawal from Marketing and End of Service, are flagged.
- Additions to the Matrix:
 - IBM DB2™ Server for VSE and VM 7.3.0
 - TCP/IP Level 510
 - Performance Toolkit for VM™ feature for z/VM V4.4 and V5.1
 - RACF/VM feature for z/VM V5.1
 - DirMaint feature for z/VM V5.1
 - PRF feature for z/VM V4
 - RTM feature for z/VM V4
 - High Level Assembler and the Toolkit Feature V1.5.0
 - IBM Debug Tool for z/VM V4.1
 - Tivoli Storage Manager V5

Changes in Version dated 04/25/05

- Additions to the Matrix:
 - IBM Backup and Restore Manager for z/VM V1.1
 - IBM Tape Manager for z/VM V1.1
 - DB2 for VSE and VM V7.4
- Changes to product entries
 - Changed incorrect program numbers 5608-ISM and 5608-ISX to 5698-ISM and 5698-ISX, respectively, as well as changed the Withdrawal from Marketing dates
 - Added Withdrawal from Marketing and Discontinuance of Service dates for Tivoli Storage Manager products
 - Added Withdrawal from Marketing dates for DB2 for VSE & VM V7.3
 - Added Withdrawal of DB2 for WWW Connection for VM/ESA
 - Added Discontinuance of Service date for DB2 for VSE and VM V7.2

How to Get an Updated Document

The LPs Migration Matrix is a point in time compilation of information regarding IBM LPs that run on the VM operating system from IBM. The most current version is available on the VM home page on the World Wide Web at URL <http://www.ibm.com/eserver/zseries/zvm/techinfo/lpmigr/>

To find the most current information concerning IBM Licensed Products consult the IBM Sales Manual (available online at <http://www.ibm.com/common/ssi/>, your IBM Representative, or authorized IBM Business Partner.

SUMMARY of Which VM Release to Order and What is Supported

As of September 10, 2004, you can purchase:

- z/VM V4.4.0
- z/VM V5.1.0

As of September 24, 2004, IBM supports:

- z/VM V3.1.0 - This version will be supported until December 31, 2005.
- z/VM V4.3.0 - This release will be supported until May 30, 2005.
- z/VM V4.4.0 - This release will be supported until September 30, 2006.
- z/VM V5.1.0 - This release will be supported until September 30, 2007.

VM End of Service/End of Marketing Dates

For the current End of Service dates for VM, refer to the z/VM Web site at:

<http://www.vm.ibm.com/techinfo/lpmigr/vmleos.html>

For the current End of Marketing dates for VM, refer to the z/VM Web site at:

<http://www.vm.ibm.com/techinfo/lpmigr/vmlwfm.html>

Licensed Products Migration Matrix for VM/ESA and z/VM

NOTES:

1. Date in parenthesis after (or below) Program Number is the planned availability date for announced products which are not yet available (or the date is labeled EoS; see Definitions, page iii).
2. An asterisk (*) in the header of the table indicates that release level of the VM product has been withdrawn from marketing.
3. A percent sign (%) in the header of the table indicates that release level of the VM product has ended service.
4. Table notes apply to the record(s) above that note, unless otherwise stated.

Please note that the appearance of a product in this document does not imply the product is available in all countries.

All product information in this matrix is "point in time" information and may be out of date. For the most current and accurate product information, you should check the IBM Sales Manual website at URL:

<http://www.ibm.com/common/ssi/>

Table 1 (Page 1 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
Note: Access Security Exits, 5799-XBC, PRPQ #P81067, is no longer available.									
Note: ACF/NCP Version 2, 5735-XX9; EoS = 6/30/91. ACF/NCP 3.x.0, 5667-124; EoS = 12/31/92. ACF/NCP = <i>Advanced Communications Function/Network Control Program</i>									
ACF/NCP	5668-854 (EoS 9/30/95)	4.2.0 Withdrawn @ 12/31/93	na	-	-	-	-	-	-
Note: @ ACF/NCP Version 4 Release 2 was withdrawn from marketing 12/31/93.									
Note: ACF/NCP 4.3.0, 5668-854; EoS = 6/30/90.									
ACF/NCP	5668-854	4.3.1 Withdrawn 9/03/03	na	na	na	na	na	na	na
Note: ACF/NCP V4 Subset 4.0.0, 5668-754; EoS = 12/31/92. ACF/NCP V4 Subset has been replaced by ACF/NCP Version 5.									
Note: ACF/NCP 5.2.0, 5668-738; EoS = 6/30/90. ACF/NCP 5.2.1, 5668-738; EoS = 12/91. ACF/NCP 5.3.0, 5668-738; EoS = 12/92. ACF/NCP V5 R3.0 was withdrawn from marketing 9/21/93.									
ACF/NCP	5668-738	5.4.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
ACF/NCP	5688-231 (EoS 9/95)	6.1.0 Withdrawn 9/25/93	na	-	-	-	-	-	-
Note: ACF/NCP 6.1.0 includes support of the 3745.									
ACF/NCP	5688-231 (EoS 9/96)	6.2.0 Withdrawn 1/28/94	na	na	na	na	na	na	na
Note: ACF/NCP V6.2.0 supports the new IBM 3745 expansion frame and the IBM 3746 Model 900. The IBM 3745-31A and 3745-61A 16MB storage capability is also supported.									
ACF/NCP	5688-231	6.3.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
ACF/NCP	5648-063 (EoS 12/97)	7.1.0 Withdrawn 10/28/94	na	na	na	na	na	na	na
ACF/NCP	5648-063 (EoS 10/31/98)	7.2.0 Withdrawn 6/30/95	na	na	na	na	na	na	na
ACF/NCP	5648-063	7.3.0 Withdrawn 3/29/96	na	na	na	na	na	na	na

Table 1 (Page 2 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
ACF/NCP	5648-063	7.4.0 Withdrawn 11/29/96	na	na	na	na	na	na	na
ACF/NCP	5648-063	7.5.0 Withdrawn 9/26/97	na	na	na	na	na	na	na
ACF/NCP	5648-063	7.6.0 Withdrawn 10/30/98	na	na	na	na	na	na	na
ACF/NCP	5648-063	7.7.0 Withdrawn 9/24/99	na	na	na	na	na	na	na
ACF/NCP	5648-063	7.8.0 Withdrawn 7/27/01	na	na	na	na	na	na	na
ACF/NCP	5648-063	7.8.1	na	na	na	na	na	na	na
Note: The tuning feature of NTuneNCP, 5648-089, is now shipped with ACF/NCP Version 7 Release 8.1 Refer to IBM Announcement Letter 201-169, dated June 12, 2001 for additional details.									
Note: ACF/SSP = <i>Advanced Communications Function/System Support Program</i> ACF/SSP 3.4.1, 5664-289 EoS = 1/31/91. ACF/SSP 3.5.0 5664-289 EoS = 6/92. ACF/SSP 3.6.0 5664-289 EoS = 6/93. ACF/SSP 3.7.0 5664-289 EoS = 6/94.									
ACF/SSP	5664-289 (EoS 1/96)	3.8.0 Withdrawn 9/06/00	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: ACF/SSP 3.8.0 includes a new feature, NCPMON. This was available for ACF/SSP 3.7.0 9/92.									
ACF/SSP	5654-009 (EoS 1/31/01)	4.1.0 Withdrawn 6/30/95	Tol	Tol	Tol	Tol	Tol	Tol	Tol
ACF/SSP	5654-009	4.3.0 Withdrawn 3/29/96	Tol	Tol	Tol	Tol	Tol	Tol	Tol
ACF/SSP	5654-009	4.4.0 Withdrawn 11/29/96	Tol	Tol	Tol	Tol	Tol	Tol	Tol
ACF/SSP	5654-009	4.5.0 Withdrawn 9/26/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol
ACF/SSP	5654-009	4.6.0 Withdrawn 10/30/98	Tol	Tol	Tol	Tol	Tol	Tol	Tol
ACF/SSP	5654-009	4.7.0 Withdrawn 9/24/99	Tol	Tol	Tol	Tol	Tol	Tol	Tol
ACF/SSP	5654-009	4.8.0 Withdrawn 7/27/01	Tol	Tol	Tol	Tol	Tol	Tol	Tol

Table 1 (Page 3 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
ACF/SSP	5654-009	4.8.1	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: The tuning feature of NTuneNCP, 5648-089, is now shipped with ACF/SSP Version 4 Release 8.1 Refer to IBM Announcement Letter 201-169, dated June 12, 2001, for additional details.</p>									
<p>Note: ACF/VTAM = <i>Advanced Communications Function/Virtual Telecommunications Access Method</i> ACF/VTAM V3 for VM/ESA 3.3.0, 5684-095; EoS = 12/31/93. ACF/VTAM V3 for VM/ESA 3.4.0, 5684-095; EoS = 01/31/96.</p>									
ACF/VTAM V3 for VM/ESA	5684-095 (EoS 1/31/01)	3.4.1 Withdrawn	Exp XCTol \$	-	-	-	-	-	-
<p>Note: VTAM 3.4.1 provides VTAM data compression capability.</p> <p>\$ New features - DBCS for VSCS, NPM/VTAM Performance Monitor, and Variable MORE/HOLD - are only supported on VM/ESA R2 and later.</p>									
<p>Note: ACF/VTAM V3 for VM/SP Release 1.1 and 1.2, 5664-280; EoS = 6/91. ACF/VTAM V3 for VM/SP 3.2.0, 5664-280; EoS = 12/92. ACF/VTAM V3 for VM/SP 3.3.0, 5664-280; EoS = 12/93.</p>									
ACF/VTAM V3 for VM/SP	5664-280 (EoS 1/31/01)	3.4.0 Withdrawn 3/31/00	\$	\$	\$	\$	\$	\$	\$
ACF/VTAM V3 for VM/SP	5664-280 (EoS 1/31/01)	3.4.1 Withdrawn 3/31/01	\$	\$	\$	\$	\$	\$	\$
<p>Note: ACF/VTAM for VM/SP 3.4.1 is the last release of this product - future enhancements will be in the ACF/VTAM for VM/ESA (5684-095) product. VTAM 3.4.1 provides VTAM data compression capability.</p> <p>.... VTAM V3 R4 for VM/SP does NOT support the Integrated Communication Adapter in the VM/ESA R1.0 ESA Feature environment.</p> <p>\$ For VM/ESA Version 2 you must use ACF/VTAM V3 for VM/ESA (5684-095) or ACF/VTAM V4 for VM/ESA and VSE/ESA (5654-010).</p>									
ACF/VTAM V4 for VM/ESA and VSE/ESA	5654-010	4.2.0 *	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: * VTAM Version 4 Release 2 for VM/ESA requires, at a minimum, operating system VM/ESA Version 1 Release 2.1 (5684-112). However, Release 2.1 and Release 2.2 do not support all of the VTAM V4R2 functions. Those functions are full VSCS network-qualified names and full buffer trace. Release 2.2 does support full VSCS network-qualified names. Support for all functions is provided in VM/ESA Version 2 Release 1 (5654-030).</p>									
<p>Note: ACF/VTAM V3 for 9370 3.2.0, 5684-052; EoS = 12/92. ACF/VTAM for 9370 will not run on ES/9000 processors.</p>									
ACF/VTAM V3 for 9370	5684-052 (EoS 5/31/96)	3.3.0 Withdrawn 3/31/95	-	-	-	-	-	-	-
<p>Note: AConnS = <i>IBM SAA Application Connection Services</i> SAA AConnS/VM Version 1 was withdrawn from marketing 12/20/93. AConnS R1.2, 5684-099; EoS = 4/94. AConnS R1.3, 5684-099; EoS = 4/94.</p>									
<p>Note: ACRITH = <i>high-ACcuracy aRITHmetic</i> ACRITH was withdrawn from marketing effective 5/31/91. ACRITH is replaced by ACRITH XSC. XSC = <i>eXtended Scientific Computation</i> ACRITH 1.3.0, 5664-185; EoS = 3/25/92.</p>									

Table 1 (Page 4 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
ACRITH XSC	5684-129 (EoS 7/07/94)	1.1.0 Withdrawn	-	-	-	-	-	-	-
Note: * ... ACRITH XSC APAR PN02105 is needed. @ ACRITH XSC Version 1 was withdrawn from marketing 3/07/94.									
Note: AD/Cycle C/370 R1.1, 5688-216, EoS 6/95.									
AD/Cycle C/370	5688-216	1.2.0 *	Exp XCTol %	Exp XCTol %	Exp XCTol %	Exp XCTol %	Exp XCTol %	Exp XCTol %	Exp XCTol %
Note: % C/370 (V1.2 and V2.1) and AD/Cycle C/370 will exploit 31-bit addressing as long as VSAM datasets are not used. If VSAM datasets are used, the mode is 370/TOL. * AD/Cycle C/370 1.2.0 is VMSES/E enabled AD/Cycle C/370 R2 requires one of: <ul style="list-style-type: none"> • AD/Cycle LE/370 R3 or later • C/370 Library V2R2 (5688-188) AD/Cycle C/370 R2 replaces the C/370 Compiler V2R1 (5688-187) AD/Cycle C/370 is replaced by IBM C/370 for VM/ESA (5654-033). See entry on page 31.									
Note: AD/Cycle COBOL SF/MVS & VM V2 Release 1, 5688-045; EoS = 6/30/93.									
AD/Cycle COBOL SF	5688-045 (EoS 2/24/95)	2.2.0 Withdrawn 8/24/94	-	-	-	-	-	-	-
AD/Cycle COBOL SF	5696-737 (EoS 9/30/02)	3.1.0 Withdrawn 3/05/01	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: Full name = <i>IBM SAA AD/Cycle COBOL Structuring Facility/MVS and VM</i> . AD/Cycle COBOL SF is replaced by IBM Cobol SF/MVS & VM, 5696-737									
AD/Cycle COBOL/370 \$	5688-197 (EoS 9/30/97)	1.1.0 Withdrawn 9/06/00	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
Note: AD/Cycle COBOL/370 Version 1 is a follow on to VS COBOL II Version 1 Release 3. \$ AD/Cycle Cobol/370 has been renamed to IBM Cobol for MVS & VM (5688-197). See the entry on page 31. * See APAR PN28726 (PTFs: UN45227 - 45238) relating to VSAM file 31-bit support.									
Note: AD/Cycle CODE/370 R1 (5688-194) see CODE/370 .									
Note: AD/Cycle Language Environment/370 Release 1, 5688-198; EoS = 12/31/93.									
AD/Cycle Lan- guage Environment/370	5688-198 (EoS 3/31/96)	1.2.0 Withdrawn 4/30/93	-	-	-	-	-	-	-

Table 1 (Page 5 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
AD/Cycle Language Environment/370	5688-198 (EoS 3/31/97)	1.3.0 Withdrawn 3/31/95	Exp	-	-	-	-	-	-
<p>Note: AD/Cycle LE/370 is a runtime environment and library for programming languages. <i>AD/Cycle C/370, AD/Cycle Cobol/370 and AD/Cycle PL/I</i> are all supported.</p> <p>.... AD/Cycle LE/370 is VMSES/E enabled beginning at the Release 3 level.</p> <p>.... VMPRF (5684-073) works with LE/370, it requires APAR VM59419 and LE/370 service at January 1995 level or later.</p> <p>.... AD/Cycle LE/370 has been renamed to (IBM) Language Environment for MVS & VM (5688-198). See entry on page 34.</p>									
AD/Cycle PL/I MVS & VM	5688-235 (EoS 6/30/96)	1.1.0 Withdrawn 6/30/95	-	-	-	-	-	-	-
AD/Cycle PL/I MVS & VM	5688-235	1.1.1	-	-	-	-	-	-	-
<p>Note: AD/Cycle PL/I MVS & VM R1 does not support AD/Cycle CODE debugging of PL/I applications.</p> <p>.... AD/Cycle PL/I MVS & VM has been renamed to IBM PL/I for MVS & VM (5688-235). See entry on page 32.</p>									
AD/Cycle PrDM/MVS & VM	5648-005 (EoS 4Q94)	1.1.0 Withdrawn 3Q94	Exp * %	Exp * %	Exp * %	Exp * %	Exp * %	Exp * %	Exp * %
<p>Note: Full name of AD/Cycle PrDM is: <i>IBM SAA AD/Cycle Professional Document Manager/MVS & VM Version 1</i>. AD/Cycle PrDM pre-reqs: ISPF V3 R2 (5684-043), ISPF/PDF V3 R2 (5684-123), and DCF V1 R4 (5748-XX9).</p> <p>* ISPF/PDF needs to be at PUT9303 in the VM/ESA environment. % needs ISPF/PDF APAR: VM56757 (PTF UM25101).</p>									
AD/Cycle PROLOG	5696-309 (EoS 6/30/96)	1.1.0 Withdrawn 2/29/96	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
AD/Cycle PROLOG	5696-309 (EoS 6/30/96)	1.1.1 Withdrawn 2/29/96	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: Full name of AD/Cycle PROLOG: <i>IBM AD/Cycle PROLOG/MVS & VM</i>. AD/Cycle PROLOG is a follow on product to IBM Prolog (5706-236). AD/Cycle PROLOG provides full code compatibility between the VM host and the OS/2 environment with the AD/Cycle PROLOG/2 product.</p>									
Note: Ada Compiler/370 VM/CMS 2.1.2, 5709-025; EoS = 9/27/91.									
Note: Ada VM to MVS Compiler 2.1.2, 5706-053; EoS = 9/27/91.									
Note: Ada Runtime Lib VM/CMS 2.1.2, 5709-027; EoS = 9/27/91.									
<p>Note: Ada Runtime Lib/370 1.1.0, 5706-295; EoS = 4/30/92. Ada Runtime Lib/370 1.2.0, 5706-295; EoS = 5/31/93. Ada Runtime Lib/370 1.3.0, 5706-295; EoS = 8/31/94.</p> <p>Ada/370 1.1.0, 5706-292; EoS = 4/30/92. Ada/370 1.2.0, 5706-292; EoS = 5/31/93. Ada/370 1.3.0, 5706-292; EoS = 8/31/94.</p>									
Ada Runtime Lib/370	5706-295 (EoS 11/30/94)	1.4.1 @ Withdrawn 8/31/04	Exp	Exp	Exp	Exp	Exp	Exp	Exp

Table 1 (Page 6 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
Ada/370	5706-292 (EoS 11/30/94)	1.4.1 Withdrawn 8/31/04 @	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: @ Ada/370 and Ada/Runtime Library/370 were withdrawn from marketing effective 5/25/94.</p> <p>ADA/370 R3 and ADA Runtime Library/370 R3 development tools can run in XA Toleration mode and the compiler runs below the 16MB line. The ADA/370 R3 compiler will produce code that can exploit 31-bit addressing.</p> <p>Ada/370 pre-reqs the Ada Runtime Library/370.</p>									
ADPS/M	5664-365 (EoS 12/01/95)	1.1.1 Withdrawn @	-	-	-	-	-	-	-
ADPS/P	5664-366 (EoS 12/01/95)	1.1.1 Withdrawn @	-	-	-	-	-	-	-
<p>Note: @ ADPS/M and ADPS/P (5664-365 and 5664-366) were withdrawn from marketing effective 7/05/94.</p> <p>ADPS/P = <i>Application Development Project Support/Process Mechanism</i> ADPS/M = <i>Application Development Project Support/Application Development Model</i></p>									
ADSTAR Distributed Storage Manager (ADSM)	5648-020 (EoS 4/24/98)	1.1.0 Withdrawn 1/08/97	-	-	-	-	-	-	-
ADSTAR Distributed Storage Manager (ADSM)	5654-A02 (EoS 1/31/01)	2.1.0 \$ Withdrawn 12/31/99	Tol	-	-	-	-	-	-
(Tivoli) ADSTAR Distributed Storage Manager (ADSM)	5697-VM3 (EoS 1/31/01)	3.1.2 Withdrawn 12/31/99	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note:</p> <p>Tivoli ADSM V3 R1 is replaced by Tivoli Storage Manager, S/390 Edition, Version 3 Release 7, 5697-TSO (see page 56). See Announcement Letter 299-282, dated 9/28/99, for details on Tivoli Storage Manager V3 R7.</p>									
AE/FORMS	5764-044	1.1.0	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
<p>Note: * AE/FORMS V1 R1 runs in at least XA Toleration mode.</p> <p>Note: AE = <i>Application Enabling</i>.</p> <p>AE/FORMS is PRPQ #P04231 and is marketed "AS-IS". Optional support service is available.</p>									
AFP FONT Collection	5648-113 (EoS 1/31/01)	1.1.0 Withdrawn 3/31/99	X	X	X	X	X	X	X
<p>Note: Replaces the Font Feature of PSF/VM (5684-141) which was withdrawn 5/95.</p>									
AFP FONT Collection for MVS, OS/390, VM and VSE	5648-B33	2.1.0	X	X	X	X	X	X	X
<p>Note: This font collection contains support for the new Euro currency and support for the new code pages.</p> <p>Note: AGSS/VM 1.1.1, PRPQ #P04246 (5764-011), was withdrawn from marketing 9/30/97 and ended service in 1998.</p>									

Table 1 (Page 7 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
ANO/VM	5654-007 (EoS 4/24/98)	1.1.0 Withdrawn 6/27/97	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: ANO = Automated Network Operations. ANO/VM is VMSES/E enabled.									
APE	5668-808	2.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
APE	5668-808	2.1.1	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: APL2 1.2.0, 5668-899; EoS = 11/88. APL2 and APL2 AE 1.3.0, 5668-899 and 5688-003; EoS = 3/94. APL2 & APL2 AE Version 1 were withdrawn from marketing 12/18/92. APL2 Version 2 (5688-228) replaces APL2 Version 1.									
Note: APL2 2.1.0, 5688-228; EoS = 9/25/94. APL2 AE 2.1.0, 5688-229; EoS = 9/25/94.									
APL2	5688-228	2.2.0 %	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: When APL2 is installed in saved segments, one of the saved segments must reside below the 16 Meg line. % APL Version 2 Release 2 provides extended cross-system compatibility and cooperative processing with other IBM APL2 platform products. Cooperative processing is now available across TCP/IP-connected APL2 systems running on VM, MVS, AIX/6000, OS/2, and Sun Solaris. APL2 V2 R2 was available 3/25/94.									
APL2 AE	5688-229	2.2.0	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$
Note: \$ When APL2 AE is installed in saved segments, one of the saved segments must reside below the 16 Meg line.									
APPC Application Suites for MVS/ESA and VM/ESA	5654-025 (EoS 1/31/01)	1.1.0 Withdrawn 3/31/00	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: APT-AC 1.4.2, 5740-M53; EoS = 8/26/93.									
APT-AC	5740-M53 Withdrawn	1.5.0	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
APT-AC	5740-M53	1.5.1 Withdrawn 9/03/03	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: APT-AC = Automatically Programmed Tool - Advanced Contouring. APT-AC R5 pre-reqs the VS FORTRAN Version 2 Release 5 Library.									
Note: AS Version 1 Releases 2, 3, and 4: EoS 12/87. AS Version 1 Release 5, 5767-001 and 5767-032: EoS 12/31/92. AS Version 2 Release 1, 5688-108: EoS 3/31/94. AS Version 2 Release 2, 5688-108: EoS 11/28/97. AS Version 3 Release 1: EoS 10/31/95. AS Version 3 Release 2: EoS 11/28/97. AS Version 4 Release 1: EoS 01/31/2001 AS Version 4 Release 2: EoS 01/31/2001 AS is now supported by ASTRAC, a privately owned company based in Warwick, U.K. A new version of AS, Version 5, was made available by ASTRAC in 3Q 1998. Additional information on ASTRAC and their support for AS is available at their website, http://www.astrac.com/as/ , by e-mail to Rob Cobby, ASTRAC Managing Director, rob.cobby@astrac.com, or by calling ASTRAC at +44 1926 623060.									

Table 1 (Page 8 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
AS PMC	5767-038	1.1.0 Withdrawn 12/31/97	Exp						
Note: Full name for AS PMC is: <i>Application System Project Management Costing.</i>									
ASCII Application Access for MVS & VM	5797-236 @	1.1.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: @ ASCII Application Access runs as a VTAM application under GCS.									
Note: Assembler: see also <i>High Level Assembler</i> (5696-234).									
ASSEMBLER H	5668-962 (EoS 10/31/95)	2.1.0 Withdrawn							
Note: HLASM (5696-234) is intended to replace H Assembler Version 2. * to support VM: PTF UN23457 (avail 3/93) supersedes; PTFs: UL68992 (APAR PL56877), UL69939, and UN04112. • ASSEMBLER H 2.1.0 replaces OS Assembler H 1.5.0.									
Note: Attachable Media Manager/VM 1.1.0, 5684-140; EoS = 6/92.									
Attachable Media Manager/VM	5684-140 (EoS 11/01/94)	1.2.0 Withdrawn 5/01/94 @							
Note: @... AMMR was withdrawn from marketing effective 5/01/94. * ... see APAR VM55227 (for 3490 device support). % ... see APAR VM55955 (open - 4/30/93 ISPF panel problem).									
AWAY Facility/VM	5799-FLP (EoS 1994)	1.1.0 Withdrawn	-	-	-	-	-	-	-
AWAY Facility/VM	5799-FLP	2.0.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: AWAY/VM is a PRPQ, number P81237.									
Bar Code OCR	5688-021	1.1.0	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: BARS/VM 1.1.0, 5785-DJD; EoS = 12/31/93.									
BARS/VM	5785-DJD (EoS 10/31/99)	1.1.1	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: BARS/VM is an EMEA only product. BARS = <i>Backup, Archive, and Retrieval System</i>									
Note: BASIC see <i>IBM Basic</i>									
BookManager BUILD	5684-026 (EoS 3/29/96)	1.1.0		-	-	-	-	-	-

Table 1 (Page 9 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
BookManager BUILD	5684-026 (EoS 3/29/96)	1.2.0 * Withdrawn 3/29/96	Exp XCTol \$ %	-	-	-	-	-	-
<p>Note: % PTF UM20014 (APAR VM49060) in the VM/ESA R1.1 environment (for NLS use). * PTF UG00374</p> <p>\$ BookManager BUILD 1.2.0 was generally available on 09/28/90. This level did not provide 31-Bit Addressing exploitation. 03/31/91 Release 2 was refreshed and the refreshed copy of this product will provide 31-Bit addressing exploitation on VM/ESA R2+. All customers with BookManager BUILD 1.2.0 should have re-ordered the product from ISMD.</p>									
BookManager BUILD/VM	5684-026	1.3.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
BookManager READ	5684-062 (EoS 3/29/96)	1.1.0		-	-	-	-	-	-
BookManager READ	5684-062 (EoS 3/29/96)	1.2.0 +	Exp XCTol \$ * %	-	-	-	-	-	-
<p>Note: * ... PTF UG00366 (APAR GC04233) is needed for installation. + PTF UG00373 (superseded by UG00499, available 2/93).</p> <p>% PTF UM20014 (APAR VM49060) in the VM/ESA R1.1 environment (for NLS use).</p> <p>\$ BookManager READ 1.2.0 was generally available on 09/28/90. This level did not provide 31-Bit Addressing exploitation. 03/31/91 Release 2 was refreshed and the refreshed copy of this product will provide 31-Bit Addressing exploitation on VM/ESA R2+. All customers with BookManager READ 1.2.0 should have re-ordered the product from ISMD.</p>									
BookManager READ/VM	5684-062	1.3.0	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *
Note: * PTF GC05366 is needed with VM/ESA V2 R1.0 and above									
Note: BookMaster Release 2, 5668-015; EoS = 3/29/91. BookMaster Release 3, 5668-015; EoS = 2/12/93.									
BookMaster	5688-015	1.4.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: BookMaster Version 1 Release 4, 5688-015; only is supported in environments where the VM components CP and CMS, are at the same Release level.</p> <p>BookMaster Release 4 works with DCF and can Exploit the XA environment when installed with DCF Release 4. The full IBM trademark name is <i>Publishing Systems BookMaster</i>.</p>									
Note: BrowseMaster Version 1, 5688-009; EoS = 12/31/91. BrowseMaster Version 1 is replaced by BrowseMaster Version 2									
BrowseMaster	5688-224	2.1.0							
BrowseMaster	5688-224	2.1.1	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
<p>Note: * BrowseMaster Version 2 needs the VS PASCAL Runtime Library present to exploit in the XA or ESA environments. Note that not all utilities are supported in 31-bit mode. Please refer to product documentation for details.</p>									
Bulletin/VM	5799-EGE	1.1.0 Withdrawn	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: Bulletin/VM is PRPQ # P81094.									
Note: C for System/370 1.1.1, 5713-AAH; EoS 9/89.									
Note: C/370 Compiler 1.1.1, 5688-040; EoS = 12/90. C/370 Compiler 1.2.0, 5688-040; EoS = 12/93. C/370 Compiler Version 1 was withdrawn from marketing 8/30/91.									

Table 1 (Page 10 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
C/370 Compiler V2	5688-187	2.1.0 Withdrawn 6/30/98		-	-	-	-	-	-
<p>Note: The C/370 Compiler Version 2 (VM and MVS Features) was withdrawn from marketing effective 10/31/94. It is replaced by AD/Cycle C/370 Version 1 Release 2 (5688-216) for use with either C/370 Library V2 R2 or AD/Cycle LE/370 R3 (VSE features of C/370 Compiler V2 will remain available).</p> <p>% C/370 (V1.2 and V2.1) and AD/Cycle C/370 will exploit 31-bit addressing as long as VSAM datasets are not used. If VSAM datasets are used, the mode is 370/TOL. C/370 Compiler requires one segment be saved below the 16 Meg line on VM/ESA (ESA) environments.</p> <p>The C/370 Compiler is replaced by AD/Cycle C/370 (5688-216). See entry on page 5.</p>									
<p>Note: C/370 Library 1.1.1, 5688-039; EoS = 12/90. C/370 Library 1.2.0, 5688-039; EoS = 12/93. C/370 Library Version 1 was withdrawn from marketing 9/30/93.</p>									
C/370 Library V2	5688-188	2.1.0 Withdrawn 6/30/98		-	-	-	-	-	-
C/370 Library V2	5688-188	2.2.0 @	370 Exp XCTol %	370 Exp XCTol %	Exp XCTol %	Exp XCTol %	Exp XCTol %	Exp XCTol %	Exp XCTol %
<p>Note: @ C/370 Library Version 2 Release 2 is VMSES/E enabled.</p> <p>The C/370 Library V2 R2 supports AD/Cycle C/370 Compiler Release 2 (5688-216). The V2 R2 Library supports the C/370 Compiler V2R1 (5688-187) for compatibility, but no enhancements are provided in the Version 2 Compiler for support/exploitation of new features in the new release of the library;</p> <p>% The C/370 Library component and the Common Execution Library (CEL) interface from the Language Environment for MVS & VM (5688-198) are included in VM/ESA V2 at no additional charge.</p>									

Table 1 (Page 11 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
CADAM	5635-001	3.3.0 Withdrawn 9/03/03	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$
<p>Note: \$ For VM/ESA R2.2, V2R1 and V2R2, CADAM 3.3.0 must be at PTF level 4 or higher. Also, GAM/SP R3.1 must have APARs PN13752 and PN54236 installed.</p> <p>CADAM pre-reqs GAM/SP R3 and Assembler H V2 or High Level Assembler. The associated products of the CADAM Version 3.3 family are also supported on the above levels of VM</p> <p>The following products are associated products in the CADAM Version 3.3 family:</p> <p>Three new products:</p> <ul style="list-style-type: none"> • 5635-110 ... HVAC (Heating, Ventilation, Air Conditioning) • 5635-111 ... P&ID and Piping Systems Integrator • 5635-112 ... Media Output for Shaded Images <p>And these products for V3 R3:</p> <ul style="list-style-type: none"> • 5635-001 ... Interactive Design System • 5635-002 ... Manufacturing System • 5635-003 ... 3D Piping • 5635-004 ... 3D Structures • 5635-005 ... Interference Manager • 5635-006 ... Engineering Catalog Design Base • 5635-008 ... 3D Mesh Geometry • 5635-014 ... AEC Schematics <p>The following products are stabilized at their current levels but may be installed and supported with CADAM V3 R3.</p> <ul style="list-style-type: none"> • 5635-007 ... Interactive Solids Design % (Withdrawn) • 5635-009 ... Lathe (Withdrawn) • 5635-010 ... CADIMS (Computer-Aided Dimensional Inspection Management System) % (Withdrawn) <p>% These 2 products were withdrawn from marketing 3/01/94 and ended service in 1994.</p>									
CADI	5684-064	1.1.2	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: CAEDS Version 3, 5709-019; EoS = 1/29/93.									
CAEDS	5717-002 (EoS 12/31/94)	4.1.0 Withdrawn							
Note: CAEDS Version 4 was withdrawn from marketing 3/31/94. It is replaced by I-DEAS Master Series Programs (on the RS/6000) see announcement letter 293-668.									
Note: CallUp Version 1 Release 1 and 2, 5799-CZE; EoS = 12/31/92.									
CallUp R1 and R2 were PRPQ P85094. CallUp the program product (5684-160, below) replaces the PRPQ (5799-CZE, above).									
Note: CallUp 1.3.0, 5684-160; EoS = 3/31/94. APARs VM53726 and VM53744 (PTF UV56099), and APAR VM54252 (PTF UV56075) were needed in the VM/ESA R2 environment.									
CallUp	5684-160	1.3.1	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
CallUp Directory EXT/VM	5799-FDF	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: CallUp Directory Extensions/VM PRPQ # P81223; Allows organizational charting. For TECHNICAL ASSISTANCE (USA Only): 1-800-237-5511 (specify product CUA2001)									

Table 1 (Page 12 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
CalWeek/VM	5799-FBB (EoS 1995)	1.1.0 Withdrawn	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: CalWeek/VM is PRPQ # P81221.</p> <p>For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)</p>									
CAMkit/370	5648-003 (EoS 4/15/02)	1.1.0 Withdrawn 8/27/97	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
<p>Note: CAMkit/370 requires (1) CADAM Interactive Base R21 (5668-840) and CADAM Access (5713-ADT), or (2) CADAM Interactive Design System V3 (5635-001). Optionally, requires other products, please see the CAMkit/370 announcement and product documentation.</p>									
<p>Note: CATIA Version 3 Release 1, 5612-001; EoS = 12/31/91. CATIA Version 3 Release 2.1, 5612-001; EoS = 11/92. CATIA Version 3 Release 2.3, 5612-001; EoS = 8/93.</p> <p>Due to performance and user space constraints CATIA Version 3 Release 2 was the last release for the VM/SP and VM/ESA 370 Feature environments.</p>									
CATIA	5613-201	3.2.1 Withdrawn 8/11/92							
<p>Note: CATIA 3.2.1 is a pre-req to CATIA 3.2.3</p>									
<p>Note: CATIA 3.2.2 (5613-201) was never generally available and was withdrawn.</p>									
CATIA	5613-201 (EoS 9/94)	3.2.3 Withdrawn 8/11/92							
<p>Note: @ CATIA Version 3 Releases 2.3 REQUIRED HB35343 (PTF UB07276) in the VM/ESA R2 environment. \$ APAR HB33414 (PTF UB06538) is needed for FBA support. * APAR HB37480 for the VM/ESA R2.1 environment (PTF UB08388).</p> <p>CATIA V3 R2.3 pre-reqs CATIA V3 R2.1 .</p>									
CATIA	5613-201 (EoS 1995)	3.2.5							
<p>Note: CATIA Version 3 Release 2.5 was replaced by CATIA Solutions, 5627-xxx.</p> <p>@ CATIA Version 3 Releases 2.5 requires APAR HB35343 (PTF UB07287) in the VM/ESA R2 environment. See also APAR HB35403.</p> <p>* See APAR HB37480 for the VM/ESA R2.1 environment.</p> <p>\$ APAR HB33414 (PTF UB06807) is needed for FBA support.</p> <p>CATIA 3.2.5, a complete refresh of the product, is a maintenance release.</p> <p>% co-reqs GAM/SP Version 1 Release 3.1 .</p> <p>CATIA support for the V3 R2.3 and R2.4 environments is extended until 09/30/94.</p>									
CATIA Solutions	5627-xxx	4.1.0 Withdrawn 3/31/98							
<p>Note: See table note on the next page for CATIA Version 4 Solutions products detailed list. CATIA Version 4 will be shipped under the system program order # 5628-VCA for VM systems.</p>									

Table 1 (Page 13 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
CATIA Solutions	5627-xxx	4.1.1 Withdrawn 3/31/99							
<p>Note: CATIA Version 4 Release 1.1 includes the following:</p> <ol style="list-style-type: none"> 1. Functional enhancements for CATIA.Exact Solids Product * (5627-SOE) 2. CATIA.Feature-Based Design Product * (5627-FEA). 3. a preventative maintenance refresh for all Version 4 Release 1.0 products. <p>* both 1 and 2 above pre-req CATIA.Object Manager Product (5627-COM).</p>									
CATIA Solutions	5627-xxx	4.1.3 Withdrawn 3/31/99							
CATIA Solutions	5627-xxx	4.1.4 Withdrawn 3/31/99							
CATIA Solutions	5627-xxx	4.1.5 Withdrawn 3/31/99	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: See the entry for a more current release of CATIA V4 Solutions for a list of the component products or see announcement letter 295-381 for more details.</p>									
CATIA Solutions	5627-xxx	4.1.6 Withdrawn 3/31/99	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$
<p>Note: See the entry for a more current release of CATIA V4 Solutions for a list of the component products or see announcement letters 296-062 and 296-064 for more details.</p>									

Table 1 (Page 14 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
CATIA Solutions	5627-xxx (EoS 10/03/05)	4.1.7 Withdrawn 3/31/99	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$

Note: CATIA V4 Solutions model data is fully compatible between the supported operating systems. See announce letters 296-406 and 296-408 for complete details.

CATIA Solutions Version 4 pre-reqs GAM/SP Release 3.1 Put 9105 (5668-978) and VS FORTRAN Library Version 2 Release 5 (5668-805) or later.

\$ For Catia Object Manager running in this environment you must install APAR PN54236 for GAM/SP R3.1.

@ If APAR VM57904 is installed on VM/ESA R2.1, you must install APAR PN54236 for GAM/SP R3.1. EoS for CATIA solutions will be effective October 30, 2005.

CATIA Solutions Version 4 include the following application solutions. Highlighted products are enhanced in V4.1.7:

--- CATIA Application Architecture Infrastructure ---
5627-ATT CATIA.CPW/Automated Test Tools Product
5627-CCC CATIA/CADAM Coupler Product
5627-CDA CATIA.Data Management - Access Product
5627-CDM CATIA.Data Management Product
5627-CDS CATIA.Distributed Services Product
5627-COM CATIA.Object Manager Product
5627-DR2 CATIA.2D Wireframe and Annotation
5627-GII CATIA.Graphics Interactive Interface
5627-IGC CATIA.IGES Mil Standard 28000 Product
5627-IGI CATIA.IGES Interface Product
5627-IMD CATIA.Image Design Product
5627-LIB CATIA.Library Product
5627-LIC CATIA.Data Management - Library Product
5627-PA3 CATIA.3D Parametric Variational Modeler
5627-PBG CATIA.Publishing Product (pre-reqs: 5627-COM Obj. Mgr.)
5627-SOE CATIA.Exact Solids Product (V4 R1.1) (pre-reqs: 5627-COM Obj. Mgr.)
5627-SOM CATIA.Solid Mock-up Product
5627-SWE CATIA.CPW/Software Environment Product
5627-WF3 CATIA.3D Wireframe Product
--- Equipment & Systems Engineering (ESE) Solutions ---
5627-BDG CATIA.2D Building Design Product
5627-ELD CATIA.Electrical Device and Support Modeling
5627-ELG CATIA.Electrical Generative Formboard Product
5627-ELW CATIA.Electrical Wire Bundle Installation
5627-FIT CATIA.Fitting Simulation Product
5627-SCH CATIA.System Schematics Product
5627-SPA CATIA.Space Analysis Product
5627-SPN CATIA.Space Navigation Product
5627-TU3 CATIA.3D Tubing Design Product
--- Mechanical Design Solutions (Mech) Version 4 products: ---
5627-ASS CATIA.Assembly Modeling Product
5627-DRA CATIA.Drafting Product
5627-DRS CATIA.Draw-Space (2D/3D) Integration Product
5627-FEA CATIA.Feature-Based Design Product (V4 R1.1) (pre-reqs: 5627-COM Obj. Mgr.)
5627-SHE CATIA.Sheetmetal Design Product
--- Manufacturing (MFG) Solutions Version 4 products: ---
5627-MAA CATIA.Milling Analysis Product
5627-NCB CATIA.Manufacturing Infrastructure
5627-NCR CATIA.Rough Cutting Product
5627-NC3 CATIA.Fixed Axis Milling Product
5627-NC5 CATIA.Multiple Axis Milling Product
5627-NES CATIA.Nesting Product
5627-ROC CATIA.Robot and Controller Definition
5627-ROS CATIA.Cell Design and Robot Programming
5627-TUR CATIA.Lathe Product
--- Shape Design & Styling Solutions (SDS) Version 4 products: ---
5627-ASU CATIA.Advanced Surface Design Product
5627-DEV CATIA.Develop Product
5627-FRF CATIA.Free Form Design Product
5627-GEO CATIA.Geodesic Product
5627-SUD CATIA.Surface Design Product
--- Analysis & Simulation (ANS) Solutions Version 4 products: ---
5627-ANI CATIA.Analysis Infrastructure Product
5627-ANS CATIA.ANSYS Interface Product
5627-ELF CATIA.ELFINI Solver Product
5627-FEM CATIA.Finite Element Modeler Product
5627-GPS CATIA.Generative Parts Stress Analysis Product
5627-KIN CATIA.Kinematics Product
5627-NAS CATIA.NASTRAN Interface Product
5627-SPM CATIA.Scientific Presentation Manager

Note: CDPF 1.2.0, 5668-997; EoS = 11/21/90.									
Note: CFSearch/370 1.1.3, 5664-329; EoS = 7/18/91.									
Note: CICS/CMS 1.1.0, 5668-795; EoS = 12/31/93.									
Note: CICS/VM 1.1.0, 5684-011; EoS = 2/90. CICS/VM 1.2.0, 5684-011; EoS = 12/31/93. CICS/VM was withdrawn from marketing 12/31/92.									
Note: CIEDS/CBDS 4.3.0, 5664-374; EoS = 6/30/89. CIEDS/CBDS 4.4.0, 5664-374; EoS = 9/30/91. CIEDS/CBDS 4.5.0, 5664-374; EoS = 12/31/92. CIEDS/CBDS = <i>Computer-Integrated Electrical Design Series/Circuit Board Design System.</i>									
Note: Cleanroom Certification Assistant 1.1.0, PRPQ # P04262 (5764-029), was withdrawn from marketing and ended service in 1994.									
Note: Clustered FORTRAN (5799-DKZ, PRPQ # P88040) has been withdrawn effective 5/92.									
CMS Parallel Fortran RPQ	5799-DGW (EoS 1996)	1.1.0 Withdrawn 3/31/98							
Note: The above PRPQ (P81051) pre-reqs, VS FORTRAN 2.5.0. PRPQ is titled <i>CMS Support for VS Fortran</i> .									
CMS Pipelines / LEXX	5799-DKF *	1.1.1	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: * CMS PIPELINES code, excluding LEXX, is shipped as part of the VM/ESA base, starting with VM/ESA R1.1. As of January 31, 2003, LEXX is available from the VM Downloads page at http://www.ibm.com/download/packages/ . It has been updated to support the latest levels of z/VM, however the package is provided As-Is , with no support.									
Note: CMS Pipelines 1.1.4, 1.1.5, and 1.1.6, 5785-RAC, ended service as of 3/31/92.									
CMS REXX Compiler	5664-390 (EoS 9/22/94)	1.1.0 Withdrawn 3/31/92		-	-	-	-	-	-
Note: CMS REXX Compiler is replaced by <i>REXX/370 Compiler</i> 5695-013 and <i>REXX/370 Library</i> 5695-014.									
CMS REXX Library	5684-124 (EoS 9/22/94)	1.1.0 Withdrawn 3/31/92		-	-	-	-	-	-
Note: CMS REXX Library 5684-124 is replaced by <i>REXX/370 Library</i> 5695-014. CMS REXX was withdrawn from marketing 3/92.									
Note: CMS Utilities Feature 1.1.0 - Feature of 5684-112; EoS = 12/31/93.									
CMS Utilities Feature	*		Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: * The CMS Utilities function is a priced feature of VM/ESA and z/VM V3. With z/VM V4 and later, the CMS Utilities function is no longer priced and is integrated into base z/VM.									
Note: COBOL: see also <i>VS/COBOL II</i> or <i>AD/Cycle COBOL/370</i> (or <i>OS COBOL</i>).									
(IBM) COBOL for OS/390 & VM	5648-A25	2.1.0 Withdrawn 9/29/00	Exp	Exp	Exp	Exp	Exp	Exp	Exp
(IBM) COBOL for OS/390 & VM	5648-A25	2.2.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: IBM COBOL for OS/390 & VM is a replacement for IBM Cobol for MVS & VM, 5688-197. See IBM Announcement Letter 297-131, dated May 6, 1997, for additional information.									
(IBM) COBOL and CICS Command Level Conversion Aid for OS/390 and VM	5648-B05	2.1.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: Short name: CCCA									

Table 1 (Page 16 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
(IBM) COBOL Workstation Function for IBM Cobol for OS/390 & VM	Feature of 5648-A25	2.1.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: IBM Cobol Workstation Function is a feature of IBM Cobol for OS/390 & VM.</p> <p>IBM Cobol Workstation Function may be ordered as an MES for installed users of IBM Cobol for OS/390 & VM or IBM Cobol for MVS & VM. The charge type selected for the base program must be a monthly license charge.</p>									
Note: COBOL IAD (InterActive Debug) see OS VS COBOL IAD (5734-CB4).									
COBOL Report Writer Pre-compiler and Libraries	5798-DYR (EoS 12/31/94)	1.3.0		-	-	-	-	-	-
COBOL Report Writer Pre-compiler and Libraries	5798-DYR \$	1.4.0	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %
<p>Note: The pre-compiler must run in 24-bit mode but will generates code that will run in 31-bit mode.</p> <p>% Support is required for VM/ESA V2. Contact the support hotline at (206) 725-7431 or 011-44-181-540-8409 for the most current support.</p> <p>\$ As of 9/1/98 program services have been extended indefinitely for this product.</p>									
Note: COBOL Report Writer Library 1.2.0, 5798-DZX, ended service as of 12/31/92.									
COBOL Report Writer Library	5798-DZX \$	1.4.0	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %	Tol Exp XCTol %
<p>Note: % Support is required for VM/ESA V2. Contact the support hotline at (206) 725-7431 or 011-44-181-540-8409 for the most current support.</p> <p>\$ As of 9/1/98 program services have been extended indefinitely for this product.</p>									
(IBM) COBOL SF	5696-737	3.1.0 Withdrawn 3/05/01	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: * IBM CODE/370 V1 R1 and V1 R1.1 were withdrawn from marketing in 1994 and ended service in August 1995.									
CODE/370	5688-194 (EoS 3/31/03)	1.2.0 * Withdrawn	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: Full name of the above is <i>CoOperative Development Environment/370 Version 1</i> . This is an editing, compiling and debugging environment. It replaces COBOL IAD (5734-CB4) and the VS COBOL II (5668-958) Debugger. It is a follow on to INSPECT for C/370 and PL/I.</p> <p>See the <i>CODE/370 General Information Manual</i> (GC26-4661) for more details on using this product.</p> <p>* This product has been renamed to IBM Debug Tool for z/OS and OS/390. See the entry on page 32.</p>									

Table 1 (Page 17 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
CRS	5799-ENT	1.1.0	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
<p>Note: CRS = <i>Conference Room Scheduler</i>, and is PRPQ # P81204.</p> <p>For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)</p> <p>Pre-reqs: ISPF V2 R2 and later, and WAKEUP and GETFMADR modules from VM/IPF or the CMS Utilities Feature of VM/ESA.</p>									
Note: CSFI 1.1.1, 5688-132; EoS = 1/31/94.									
CSFI	5688-132	1.2.1 Withdrawn							
CSFI	5688-132	1.3.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: CSFI = <i>Communications Subsystem for Interconnection</i>. CSFI replaces GTMOSI (an EMEA only Program Offering) 5785-ABZ.</p>									
<p>Note: CSP/AD 3.1.1 (5668-813) EoS = 6/89. CSP/AD Version 3 Release 2 (5668-813), EoS = 8/28/92. CSP = <i>Cross System Product</i>.</p>									
CSP/AD	5668-813 \$ (EoS 12/31/98)	3.3.0 Withdrawn 12/31/97	Exp XCTol *	-	-	-	-	-	-
<p>Note: * Requires PTF UN75001 (this PTF supersedes UN48800) - available now. Please check the product install bucket on RETAIN for the most current information.</p> <p>\$ CSP/AD V3 R3 is not enabled for Year 2000. Year 2000 Toleration is provided by APAR PN87466, available from CSP service, 1-800-237-5511. See also Information APAR II09591.</p> <p>.... The EZ-PREP, EZ-RUN and PWS features of CSP/AD V3 R3 are withdrawn from marketing as of 1/29/97 and ended service as of 11/28/97. See IBM announce letter 996-273 for feature codes.</p>									
<p>Note: CSP/AE 3.1.1 (5668-814) EoS 6/89. CSP/AE Version 3 Release 2 (5668-814), EoS 8/28/92.</p>									
CSP/AE	5668-814 \$ (EoS 12/31/98)	3.3.0 Withdrawn 12/31/97	Exp XCTol *	-	-	-	-	-	-
<p>Note: * Requires PTF UN75004 (this PTF supersedes UN48798) - available now. Please check the product install bucket on RETAIN for the most current information.</p> <p>\$ CSP/AE V3 R3 is not enabled for Year 2000. Year 2000 Toleration is provided by APAR PN87466, available from CSP service, 1-800-237-5511. See also Information APAR II09591.</p>									
Note: CSP/QUERY 1.2.1, 5668-918; EoS = 12/31/90.									
Note: CUF see <i>CMS Utilities Feature</i> .									
Current-OV/VM Workgroup Program	5621-416	1.1.0 Withdrawn 5/31/97	na	na	na	na	na	na	na
<p>Note: Co-reqs on the Host OfficeVision/VM and one of the REXX Libraries (5695-014 or 5684-124).</p> <p>Current-OV/VM Workgroup is withdrawn from marketing effective 5/31/97. It is replaced by IBM OV/VM support for Lotus Notes Clients, announcement number 296-358, dated 9/24/96.</p>									

Table 1 (Page 18 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
CVIEW	5664-296 (EoS 6/30/94)	2.1.3 Withdrawn	370A	-	-	-	-	-	-
Note: CVIEW was withdrawn from marketing 11/30/93. Replacement: CVIEW is being packaged as a component of the Pass-Through product (5684-100), starting with Version 2 Release 1.1.									
Note: DAE (<i>Distributed Automation Edition</i>) - Communications System/VM 1.1.0, 5684-057; EoS = 9/27/91.									
DAE - Communi- cations System/VM	5684-057 (EoS 10/16/98)	1.2.0 Withdrawn		-	-	-	-	-	-
DAE - Communi- cations System/VM	5684-057 (EoS 10/16/98)	1.2.1 Withdrawn		-	-	-	-	-	-
DAE - Communi- cations System/VM	5684-057 (EoS 10/16/98)	1.2.2 Withdrawn 9/24/97		-	-	-	-	-	-
Note: * The 'CS2POOLS' segment must be saved below the 16 Meg. line for DAE - Communications System/VM in the VM/ESA environment.									
Note: DAE - Host Link/VM 1.1.0, 5684-059; EoS = 9/27/91.									
DAE - Host Link/VM	5684-059 (EoS 10/16/98)	1.2.0 Withdrawn		-	-	-	-	-	-
DAE - Host Link/VM	5684-059 (EoS 10/16/98)	1.2.1 Withdrawn		-	-	-	-	-	-
DAE - Host Link/VM	5684-059 (EoS 10/16/98)	1.2.2 Withdrawn 9/24/97		-	-	-	-	-	-
DAE - Logistics	5684-058 (EoS 4/24/98)	1.1.0 Withdrawn 6/04/97		-	-	-	-	-	-
Note: DAE - Logistics was withdrawn from marketing effective 7/05/94.									
DAE = <i>Distributed Automation Edition</i> .									
Data Compression Program for VM/ESA	5697-235 (EoS 1/31/01)	1.1.0 Withdrawn 11/30/99	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: Data Compression Program for VM/ESA requires PTF UM27737									
DB2™ Datajoiner	*	2.1.0	na	na	na	na	na	na	na
DB2™ Datajoiner	*	2.1.1	na	na	na	na	na	na	na
Note: *... This product is packaged for AIX and Windows NT. The DRDA Application Server support allows Application Requestors to access multi-vendor data via Datajoiner. See IBM Announcement letters 297-363, dated 9/16/97, and 298-264, dated 7/28/98, for additional details.									
DB2™ for VSE & VM	5648-158 (EoS 1/31/01)	5.1.0 Withdrawn 10/20/99	Exp XCTol \$	-	-	-	-	-	-
DB2™ for VSE & VM	5648-A70 (EoS 9/30/02)	6.1.0 Withdrawn 9/05/01	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$

Table 1 (Page 19 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
DB2™ for VSE & VM	5697-F42 (EoS 5/02/05)	7.1.0 Withdrawn 12/14/01	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$
DB2™ for VSE & VM	5697-F42 (EoS 3/31/06)	7.2.0 Withdrawn 3/28/03	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$
DB2™ for VSE & VM	5697-F42	7.3.0 Withdrawn 9/17/04	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$
DB2™ for VSE & VM	5697-F42	7.4.0	-	Exp XCTol \$	-	-	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$
Note: DB2 for VSE & VM can be licensed only on standard processor engines. \$... The DB2 DataSpaces Support Option will exploit VM/ESA DataSpaces. To facilitate migration, a migration kit is being added to DB2 Server for VSE & VM, Version 6 Release 1. Beginning June 25, 1999, all new purchases of DB2 Server for VSE & VM will contain this migration kit.									
DB2 Forms for VM and VSE	5697-F16 (EoS 4/04/04)	1.1.0 Withdrawn 3/14/03	*	*	*	*	*	*	*
Note: * DB2 Forms runs on a workstation and allows you to easily create and display Windows-based DB2 applications. See IBM Announcement Letter 299-099, dated April 27, 1999, or the IBM Sales Manual entry for 5697-F16 for additional details.									
DB2 WWW Connection for VM/ESA	*	1.1.0 Withdrawn	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: *... DB2 World Wide Web (WWW) Connection for VM/ESA, originally made available at no-charge as an "as is" product, is no longer available for download.									
DataHub/2	5667-134 (EoS 6/16/95)	1.2.0 Withdrawn 10/05/95	X	X	X	X	X	X	X
Note: DataHub Support/VM is a feature of SQL/DS Version 3 and available 6/25/93. See also the <i>SQL/DS</i> entry later in this table.									
DataRefresher	5696-703	1.1.0 Withdrawn 4/27/99	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: DataRefresher replaces DXT V2, 5668-788.									
Note: DBEDIT 1.1.0 (5798-DLL) EoS 2/87.									
DBEDIT	5798-DLL (EoS)	1.3.3 Withdrawn	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: DBEDIT is no longer supported.									
Note: DBRAD VM 1.1.0, 5798-FAP; Withdrawn 12/31/97, EoS = 3/90. DBRAD = <i>Data Base Relational Application Directory</i> , an EMEA Product Offering.									
Note: DCF 1.3.2, 5748-XX9 EoS = 11/04/91. DCF = <i>Document Composition Facility</i>									

Table 1 (Page 20 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
DCF	5748-XX9	1.4.0 % **	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: % ... See Information APAR II06220 for DCF Release 4 (last update 12/28/92).</p> <p>DCF Release 4 enhanced: Double Byte Character (DBC) Feature provides DBC support and support for the CICS command level interface.</p> <p>** ... New DCF Release 4 enhancements were announced 3/95 (see announcement letter 295-129) available via PTF 4/95 and DCF Viewer Feature 7/28/95.</p>									
<p>Note: DCP/VM Version 1 (5664-362); EoS = 6/93. DCP/VM was withdrawn from marketing 3/93. DCP was a JAPANESE only product.</p>									
<p>Note: DCS/CDF 1.1.0 5668-865 EoS 12/86.</p>									
DCS	5668-865 (EoS 7/30/94)	1.2.4 Withdrawn 3/31/98							
<p>Note: DCS = <i>Data Communication Service</i></p>									
<p>Note: DFDSM is now: <i>ADSTAR Distributed Storage Manager</i>.</p>									
<p>Note: DFSMS/VM Version 1 Release 1, 5706-116; EoS 10/31/99</p>									
DFSMS/VM	Feature of 5684-112	210+	*	*	*	*	*	*	*
<p>Note: \$ DFSMS/VM Function Level 210 is a feature available on VM/ESA R1.1. % DFSMS/VM Function Level 220, available 9/18/92, is a feature available on VM/ESA V1 R1.1 and V1 R2.0. * DFSMS/VM Function Level 221 became available 3/26/93 and is a feature of VM/ESA R2.0 and later releases.</p>									
<p>Note: DFSORT /CMS 1.1.0, 5664-325; EoS = 4/30/91.</p>									
DFSORT /CMS	5684-134	2.1.0 @	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: @ See the Install Bucket for DFSORT/CMS for current installation requirements.</p>									
<p>Note: DIOF Version 2.1.0, 5785-HAH (a program offering in EMEA) was withdrawn from marketing 10/91 and has been EoS since 3/86.</p>									
<p>Note: DIOF V3.1.0, 5785-HAX; EoS = 4/30/92. DIOF = <i>Display Input/Output Facility</i>, a program offering in EMEA and A/FE only.</p>									
DirMaint	Feature of 5739-A03	FL410	-	-	Exp	Exp *	Exp @	Exp @	-

Table 1 (Page 21 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
DirMaint	Feature of 5741-A05 (EoS 9/30/07)	FL510	-	-	-	-	-	-	Exp @
<p>Note: Starting with z/VM Version 4, VM/DIRMAINT is shipped as a priced feature of z/VM. See IBM Announcement letter 201-163, dated May 29, 2001, for complete details. DirMaint see <i>VM/DIRMAINT</i> for the product which operates on VM/ESA and z/VM V3.1.</p> <p>* ... DirMaint requires the PTF for APAR number VM62908 for z/VM V4.2. This service has been pre-applied to DirMaint prior to shipment. Also, the PTF for APAR number VM62933 is required to support the IBM PCI Cryptographic Accelerator with z/VM V4.2. This service in not pre-applied. See IBM Announcement Letter 201-286, dated October 4, 2001, for additional information.</p> <p>@ ... DirMaint requires the PTF for APAR number VM63033 for z/VM V4.3. This service is not pre-applied but it is shipped with z/VM V4.3 on the GA level RSU (Recommended Service Upgrade) tape. See IBM Announcement Letter 202-104, dated April 30, 2002 for additional information.</p>									
Note: DIS Release 1, 5706-113; EoS = 3/91. DIS Release 2, 5706-113; EoS = 5/22/92.									
Note: DIS Version 1 (5706-113) has been transferred from an IBM to a Metaphor brand name.									
Note: DITTO V3 R1.0, 5688-052; EoS = 11/28/97									
DITTO	5688-052 (EoS 12/31/01)	3.2.0 Withdrawn 6/30/00	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: * PTFs UN55037 and UN70819 are required for VM/ESA V2 R1.0 and higher. DITTO Version 3 Release 2 Productivity Feature for VM was available 12/93.</p>									
DITTO/ESA	5654-029 (EoS 12/31/97)	1.1.0 * Withdrawn 12/31/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: * DITTO/ESA 1.1.0 is VMSES/E enabled.									
DITTO/ESA	5654-029 (EoS 3/31/01)	1.2.0 *	Tol	Tol	Tol	Tol	Tol	Tol	Tol
DITTO/ESA	5654-029	1.3.0 *	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: * DITTO/ESA 1.2.0 and future releases are VMSES/E enabled.									
<p>Note: DMS/CMS 1.2.0, 5748-XXB; EoS = 6/27/92. DMS/CMS Version 1 was withdrawn from marketing effective 8/30/91. DMS = <i>Display Management System</i></p>									
DMS/CMS	5684-113	2.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: DOS/VS COBOL Version 1 Release 2 (5746-CB1 & 5746-LM4) Withdrawn 12/31/99, EoS = 3/26/92.									
DOS/VS-VM/SP SORT/MERGE	5746-SM2 (EoS 4/30/99)	2.5.0 Withdrawn 12/29/97							
<p>Note: DrawMaster 1.1.0, 5664-388; EoS 4/30/89. DrawMaster 1.1.1, 5664-388; EoS 8/26/93.</p>									
<p>Note: DW/370 1.1.1, 5664-370; EoS 9/88 DW/370 1.2.0, 5664-370; EoS 10/17/92 DW/370 1.2.1, 5664-370; EoS 12/31/94 DW/370 2.1.0, 5684-091; EoS 06/30/96</p>									

Table 1 (Page 22 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
DW/370	5684-091 (EoS 5/03/04)	2.2.0 Withdrawn 3/03/03	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: DW/370 = <i>DisplayWrite/370</i>. A per user based fee structure is available 6/93 for DW/370 Version 2.</p>									
<p>Note: DXT 2.3.0, 5668-788; EoS = 12/90. DXT 2.4.0, 5668-788; EoS = 12/31/92.</p>									
DXT	5668-788 (EoS 12/15/99 \$)	2.5.0 Withdrawn 10/05/95	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: \$ DXT is replaced by DataRefresher, 5696-703. See the entry for DataRefresher on page 21.</p>									
<p>Note: ECF Version 1 Release 1 (5664-327); EoS = 7/01/91. ECF Version 1 Release 2 (5664-327); EoS = 11/28/97.</p>									
<p>Note: ECFORMS Version 1 Release 2 (5799-DFN); EoS = 6/91. ECFORMS version 1 was withdrawn from marketing 8/18/93 (withdrawn in EMEA effective 5/31/93). ECFORMS Version 1 Release 3 (5785-MCB); EoS = 12/18/93.</p>									
ECFORMS	5684-164 (EoS 4/24/98)	2.1.0 Withdrawn 06/27/97	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: ECFORMS Version 2 replaces ECFORMS Version 1 Release 3. A per user based fee structure is available with Version 2. Full name is <i>IBM Electronic Forms Management Systems</i>.</p>									
<p>Note: ELSAP 1.1.0, PRPQ #P04242 (5764-007), was withdrawn from marketing as of 4Q97 and ended service in 2Q98.</p>									
<p>Note: EMCS Version 1 Release 2 (5709-031); EoS = 5/91. <i>EMCS</i> = <i>Enterprise Management Control Series</i>.</p>									
<p>Note: EMCS AFMT Version 1 (5709-032); EoS = 5/91. <i>AFMT</i> = <i>Advanced Function Management Tools</i>. EMCS is replaced by Application Systems (AS) Project Management.</p>									
<p>Note: EML, 1.2.0 5799-BTB; (PRPQ P81005) was withdrawn and EoS 8/24/92. <i>EML</i> = <i>Elementary Math Library (Fortran)</i> Most EML function is included in the VS Fortran V2 library.</p>									
<p>Note: Enterprise View, 5758-BY1, EnterpriseWeb Calendar, 5758-BY0, EnterpriseWeb Mail, 5758-BY5, EnterpriseWeb Secure/VM, 5758-BY4, and EnterpriseWeb/VM, 5758-BYA, were withdrawn from marketing through the Software Vendor Marketing Program (SVMP) as of March 2000. Software provider Beyond Software was acquired by NEON Systems as of October 1999. EnterpriseWeb/VM is now available as Shadow Web Server for VM. Contact NEON Systems at 800-505-6366 or 281-634-8225 or visit their web site at http://www.neonsys.com for additional information.</p>									
<p>Note: EP 1.1.0, 5735-XXB; EoS = 11/90. EP 1.2.0, 5735-XXB; EoS = 12/92.</p>									
EP	5735-XXB (EoS 10/4/04)	1.4.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
EP	5735-XXB (EoS 10/4/04)	1.6.1 Withdrawn 9/03/03	na	na	na	na	na	na	na
<p>Note: EP 1.7.0, 5735-XXB; EoS = 12/92.</p>									
EP	5735-XXB	1.8.0 Withdrawn 9/03/03	na	na	na	na	na	na	na

Table 1 (Page 23 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
EP	5735-XXB	1.9.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
EP	5735-XXB (EoS 9/30/95)	1.10.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
Note: EP 1.10.0, 5735-XXB, was withdrawn from marketing 4/30/93. It was replaced by EP R11.									
EP	5735-XXB	1.11.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
EP	5735-XXB	1.12.0 Withdrawn 9/25/98	na	na	na	na	na	na	na
EP	5735-XXB	1.14.0	na	na	na	na	na	na	na
Note: EP pre-reqs the appropriate levels of ACF/NCP and ACF/SSP. For Release 12 these are ACF/NCP V7 R1.0 and ACF/SSP V4 R1.0.									
EPDM	5695-101	1.1.0	na *	na *	na *	na *	na *	na *	na *
Note: EPDM = Enterprise Performance Data Manager/MVS * EPDM runs on MVS but can collect, store and report on VM data.									
Note: EREP 5654-260, Ver. 3 Release 4; EoS = 5/31/92.									
EREP	5654-260	3.5.0 *	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: EREP Version 3 Release 5 supersedes all previous releases of EREP. * See APAR VM54504 (PTF UV56895) new function device support.									
Note: ESCE/VM 1.2.0, 5664-392: EoS 9/30/90 ESCE/VM 1.3.0, 5664-392: EoS 6/14/96									
Note: ESE/VM 1.2.0, 5664-391: EoS 9/30/90. ESE/VM 1.3.0, 5664-391: EoS 6/14/96.									
Note: ESCON Manager Release 1, 5688-008; EoS = 6/93 (EMEA EoS = 11/93).									
ESCON Manager	5688-008 (EoS 4/24/98)	1.2.0 Withdrawn 6/27/97	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: ESSL 1.3.0, 5668-863; Withdrawn 9/30/97, EoS 3/30/91. ESSL 1.4.0, 5668-863 and ESSL - Scalar only 1.4.0, 5688-138; EoS = 11/24/92. ESSL Version 1 (5668-863) and ESSL - Scalar Version 1 (5688-138) were withdrawn from marketing 7/21/92.									
ESSL/370	5688-226 (EoS 6/30/94)	2.1.0 Withdrawn 1/28/94		-	-	-	-	-	-
Note: @ ESSL Version 2 Release 1 was withdrawn from marketing 1/28/94. ESSL/370 Version 2 replaces ESSL Version 1 (5668-863) and ESSL - Scalar Version 1 (5688-138).									

Table 1 (Page 24 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
ESSL/370	5688-226 (EoS 3/31/02)	2.2.0 Withdrawn 3/05/01	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: ESSL/370 V2 R2 is VMSES/E enabled. Full name for ESSL/370 is <i>IBM Engineering and Scientific Subroutine Library Vector and Scalar/370 Version 2</i></p> <p>* Support for VM/ESA 370 Feature R1.5 will be provided for the ESSL/370 Scalar Library. VM/ESA 370 Feature R1.0 is not a supported environment for ESSL Version 2 Release 2.0.</p>									
Note: Executive Decisions/VM 1.1.1, 5688-094; EoS = 10/16/93.									
Executive Decisions/VM %	5688-094 (EoS 10/31/94)	1.1.2 Withdrawn 6/16/93		-	-	-	-	-	-
<p>Note: % Replacement Product Information: IBM has selected two vendors; <i>Comshare</i> and <i>Intelligent Office Company, Ltd. (I.O.C.)</i>, to give current Executive Decisions users and future EIS users a wider choice of platforms and enhanced function. Agreements with these vendors also include the sharing of Executive Decisions design points by IBM, and the identification of migration paths from Executive Decisions to these vendor's products.</p> <p>Executive Decisions/VM Version 1 Release 1 was withdrawn from marketing 6/16/93.</p>									
<p>Note: * expEDite/VM 1.1.0, 5767-062; EoS = 6/30/93. 6/93 is a USA date. In << EMEA >> : expEDite/VM Version 1.0 (5767-062), was withdrawn from marketing 9/30/93, and will be EoS effective 3/31/94. IBM expEDite/VM was withdrawn 11/92. It is replaced by IBM expEDite Base/VM Version 4 (below) (version change to V4 R1 was to be consistent with the version and release level of IBM Information Exchange).</p>									
expEDite Base/VM	5767-062 (EoS 4/30/99)	4.1.0 Withdrawn 12/16/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: In EMEA expEDite Base/VM is product number 5785-EET									
Extended Facilities Product	5648-A09 (EoS 10/16/98)	1.1.0 Withdrawn 12/29/97	X	X	X	X	X	X	X
Extended Facilities Product	5648-A17	2.1.0	X	X	X	X	X	X	X
File Exchange/VM User Interface	5785-EEY \$	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
File Exchange/VM User Interface	5785-EEY	1.2.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: The <i>IBM File Exchange/VM User Interface</i> replaces the user interface program for VM/CMS users of the IBM File Exchange Service which is currently available via the Service Delivery Centres (which will not be supported after 31 December 1994). \$... This is an EMEA only product.</p>									
Filemanager/VM	5799-FLT (EoS 1996)	1.1.0 Withdrawn	Tol	Tol	Tol	Tol	Tol	Tol	Tol

Table 1 (Page 25 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
FLSF	5668-890 (EoS 4/26/97)	1.1.0 Withdrawn 12/16/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: FLSF = <i>Font Library Service Facility</i> . FLSF is superseded by AFP Font Collection, 5648-B33 . See entry on page 7.									
Note: FMS/VM 1.1.0, 5785-RAE; EoS = 6/92. End of Marketing was also 6/92. FMS/VM was an EMEA only product.									
Note: Formula Formatter (SMFF) 1.0.0, 5798-DPW; EoS 9/86. It was replaced by a Feature of DCF (5748-XX9).									
Note: FORTRAN H Opt 1.3.0, 5796-PKR; EoS 6/86.									
Note: FORTRAN IAD V1 R2, 5734-FO5, was withdrawn from marketing 12/18/92 (note: EoS was 5/86).									
Note: FORTRAN: see <i>VS FORTRAN</i> .									
Note: FPDIF 1.1.0, 5799-DRD; Is no longer available or supported. FPDIF = <i>Floating-Point Data Interchange Facility</i> , PRPQ # P88041									
Note: FSF (File Storage Facility) 1.1.3, 5798-DMY; Withdrawn 12/31/97, EoS 12/87.									
Note: FTP Version 2, 5664-315; EoS = 12/03/92. FTP is superseded by NetView FTP VM Version 1 (5684-048).									
FTP PS/55 V2	5799-PGX	2.1.0							
Note: Full name of the above is: <i>PS/55 File Transfer Program VM/CMS Version 2</i> . This product is available in Asia Pacific countries.									
Note: GAM/SP Release 2, 5668-978 ended service in 4/90.									
GAM/SP	5668-978 (EoS 4/24/98)	1.3.0 Withdrawn 6/27/97		-	-	-	-	-	-
GAM/SP	5668-978	1.3.1 Withdrawn 6/27/97	Svm XCTol * %	Svm XCTol * %	Svm XCTol * %	Svm XCTol * %	Svm XCTol * %	Svm XCTol * %	Svm XCTol * %
Note: % see APAR PN54236 - PTFs UN58851 (1.3.0) and UN58852 (1.3.1)) * For GAM Release 3 (5668-978) in the XA/ESA/XC environments see APAR PN13752 (HIPER - PTFs UN15585 (1.3.0) and UN15586 (1.3.1)). <i>GAM/SP Graphics Access Method/System Product.</i> <i>Svm</i> in the GAM/SP records indicates that only GTM (Graphics Task Monitor) requires a 370 mode virtual machine.									
GASP	5799-AXX (EoS 1/96)	1.3.8		-	-	-	-	-	-
GASP	5799-AXX (EoS 1/96)	1.3.9		-	-	-	-	-	-
GASP	5799-AXX	1.3.10	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: GASP = <i>Graphics Attachment Support Program</i> Applications using GASP may be exploitive (i.e. GASP must reside below the 16M line but applications can call GASP from above the line).									
Note: Gateway Security Modifications 5799-XBA, PRPQ # P81070 is no longer available.									

Table 1 (Page 26 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
GDDM OS/2-Link	5688-113 (EoS 10/31/94)	1.0.0 \$	na	na	na	na	na	na	na
<p>Note: This product ships to the HOST but down-loads to and executes on OS/2.</p> <p>\$ GDDM-PCLK V1.1 and GDDM OS/2-Link V1.0 are now packaged and installed with the GDDM/VM Version 3 base. Both GDDM-PCLK Version 1.1 (5604-095) and GDDM-OS/2 Link Version 1.0 have had service extended to 10/31/94.</p>									
GDDM-CSPF	5688-013 (EoS 6/7/94)	1.1.0 Withdrawn 2/01/94							
<p>Note: GDDM-CSPF was withdrawn from marketing 2/01/94.</p>									
<p>Note: GDDM-GKS 1.1.0, 5668-802; EoS = 4/15/93.</p>									
GDDM-GKS	5668-802	1.1.1 Withdrawn 5/30/97	Exp	Exp	Exp	Exp	Exp	Exp	Exp
GDDM-GKS	5668-802	1.1.2	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: GDDM-GKS 1.1.2 is only supported with GDDM/VM Version 3 Release 1 and Release 1.1.</p>									
GDDM-GKS	5668-802	1.1.3	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: GDDM-GKS 1.1.3 is only supported with GDDM/VM Version 3 Release 2.</p>									
<p>Note: GDDM-IMD 2.1.0, 5668-801; EoS = 4/15/93. IMD = <i>Interactive Map Definition</i>.</p>									
GDDM-IMD	5668-801	2.1.1 Withdrawn 5/30/97	Exp	Exp	Exp	Exp	Exp	Exp	Exp
GDDM-IMD	5668-801	2.1.2	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: GDDM-IMD 2.1.2 is only supported with GDDM/VM Version 3 Release 1 and Release 1.1.</p>									
GDDM-IMD	5668-801	2.1.3	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: GDDM-IMD 2.1.3 is only supported with GDDM/VM Version 3 Release 2.</p>									
<p>Note: GDDM-IVU 1.1.0, 5668-723; EoS = 4/15/93. IVU = <i>Image View Utility</i>.</p>									
GDDM-IVU	5668-723	1.1.1 Withdrawn 5/30/97	Exp	Exp	Exp	Exp	Exp	Exp	Exp
GDDM-IVU	5668-723	1.1.2	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: GDDM-IVU 1.1.2 is only supported with GDDM/VM Version 3 Release 1 and Release 1.1.</p>									
GDDM-IVU	5668-723	1.1.3	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: GDDM-IVU 1.1.3 is only supported with GDDM/VM Version 3 Release 2.</p>									
<p>Note: GDDM-PGF 2.1.0, 5668-812; EoS = 4/15/93. PGF = <i>Presentation Graphic Facility</i>.</p>									
GDDM-PGF	5668-812	2.1.1 Withdrawn 5/30/97	Exp	Exp	Exp	Exp	Exp	Exp	Exp
GDDM-PGF	5668-812	2.1.2	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: GDDM-PGF 2.1.2 is only supported with GDDM/VM Version 3 Release 1 and Release 1.1.</p>									

Table 1 (Page 27 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
GDDM-PGF	5668-812	2.1.3	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: GDDM-PGF 2.1.3 is only supported with GDDM/VM Version 3 Release 2.									
GDDM-REXX	5664-336	1.1.0 Withdrawn 5/30/97	*	*	*	*	*	*	*
Note: * GDDM-REXX is now packaged and installed with the GDDM/VM Version 3 base.									
Note: GDDM/graPHIGS Version 1 (5668-792) EoS = 3/17/92 GDDM/graPHIGS V1 was withdrawn from marketing effective 12/17/91.									
Note: GDDM/graPHIGS Version 2: GDDM/graPHIGS 2.1.0, 5688-093; EoS = 12/31/91. GDDM/graPHIGS 2.2.1, 2.2.2 and 2.2.3 are all superseded by GDDM/GraPHIGS 2.2.4.									
GDDM/graPHIGS	5688-093 12/31/05	2.2.4 Withdrawn 9/08/04	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: GDDM/graPHIGS V2 will be withdrawn from marketing effective 9/08/94. GDDM/VM Version 2, 5664-200; EoS = 4/15/93.									
GDDM/VM	5684-168 (EoS 3/31/97)	3.1.0	Exp XCTol	-	-	-	-	-	-
GDDM/VM	5684-168	3.1.1	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: % See APAR PN39848 support for CMS 10 (opened 5/93). The GDDM-PCLK and GDDM-OS/2 Link features are withdrawn from marketing, effective 6/4/96. GDDM-REXX is now packaged and installed with the GDDM/VM Version 3 base. GDDM-CSPF is not supported in the GDDM/VM V3 environment.									
GDDM/VM	5684-168	3.2.0 \$ *	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: \$ GDDM/VM 3.2.0 is enabled for VMSES/E * See the Installation Bucket for GDDM/VM 3.2.0 for the latest installation requirements.									
Note: GDDM/VMXA 2.2.0, 5684-007; EoS = 4/15/93.									
GDDM/VMXA	5684-007	2.3.0 Withdrawn 5/30/97	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: GDDM/VMXA V2 R3 supersedes GDDM/VM V2 R2 and GDDM/VMXA V2 R2.									
Note: GDQF Version 1, 5668-905; EoS = 12/31/91. GDQF Version 2 Release 1, 5688-169; EoS = 05/01/93.									

Table 1 (Page 28 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
GDQF	5688-169	2.2.0 Withdrawn 9/03/03	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$
<p>Note: \$ GDQF Version 2 needs the VS PASCAL Runtime Library present to exploit in the XA or ESA environments. Note that not all Utilities are supported in 31-bit mode. Please refer to product documentation for details. GDQF = <i>Graphical Display and Query Facility</i>. GDQF was withdrawn from marketing effective 9/03/03.</p>									
<p>Note: geoManager Version 1: geoManager 1.1.2, 5685-105; EoS = 6/30/93 geoManager 1.1.3, 5685-105; EoS = 12/30/93 geoManager 1.1.4, 5685-105; EoS = 7/31/95 geoManager 1.1.5, 5685-105; EoS = 12/06/97.</p>									
geoManager	5685-105	1.1.6	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$	Exp \$
<p>Note: \$ geoManager 1.1.x needs the PL/I Runtime Library (5668-911) present to exploit in the XA or ESA environments.</p>									
<p>Note: GPG/GFIS Version 1, 5668-941; EoS = 6/18/91.</p>									
<p>Note: Graphics Program Generator (GPG) Version 2: GPG 2.2.4, 5688-050; EoS 12/92. GPG 2.2.5, 5688-050; EoS 12/31/93 GPG 2.2.6, 5688-050; EoS 2/28/95 GPG 2.2.8, 5688-050; EoS 6/30/97</p>									
GPG	5688-050	2.2.9	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: GroupTalk 1.1.0, 5799-DDK; EoS = 12/31/91. GroupTalk Convene 1.1.0, 5799-DDL: EoS = 12/31/91.</p>									
High Level Assembler	5696-234 (EoS 12/29/95)	1.1.0 Withdrawn 3/24/95	-	-	-	-	-	-	-
High Level Assembler	5696-234 (EoS 3/31/02)	1.2.0 Withdrawn 9/25/98	Tol	Tol	Tol	Tol	Tol	Tol	Tol
High Level Assembler	5696-234 (EoS 10/6/03)	1.3.0 Withdrawn 9/25/00	Tol	Tol	Tol	Tol	Tol	Tol	Tol
High Level Assembler	5696-234	1.4.0 Withdrawn 5/25/04	Tol	Tol	Tol	Tol	Tol	Tol	Tol
High Level Assembler	5696-234	1.5.0	Tol	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: Short name = HLASM. Full name = <i>IBM High Level Assembler/MVS & VM & VSE</i> . Price changes for HLASM were announced 4/05/94 -- see Ann. Letter 394-070. HLASM 1.5 supports development of applications requiring 64-bit addressing. See announcement 204-122. HLASM is the follow on to Assembler H Version 2 (5668-962).</p>									
High Level Assembler Toolkit Feature	Feature of 5696-234 (3/31/02)	1.2.0 Withdrawn 9/25/98	Tol	Tol	Tol	Tol	Tol	Tol	Tol
High Level Assembler Toolkit Feature	Feature of 5696-234 (EoS 10/6/03)	1.3.0 Withdrawn 9/25/00	Tol	Tol	Tol	Tol	Tol	Tol	Tol

Table 1 (Page 29 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
High Level Assembler ToolKit Feature	Feature of 5696-234	1.4.0 Withdrawn 5/25/04	Tol	Tol	Tol	Tol	Tol	Tol	Tol
High Level Assembler ToolKit Feature	Feature of 5696-234	1.5.0	Tol	Exp	Exp	Exp	Exp	Exp	Exp
Note: High Level Assembler Toolkit Feature is a separately priced feature of High Level Assembler. See announcement letters 295-498, dated 12/12/95, 298-271, dated 7/28/98, 200-217, dated 7/11/00, and 204-122, dated 6/08/04 for details.									
Host Management Facilities	5684-157 (EoS 6/30/94)	1.1.0 Withdrawn 11/19/93	Tol *	-	-	-	-	-	-
Host Management Facilities	5684-157 *	1.1.1 @	Tol	Tol %	Tol %	Tol %	Tol %	Tol %	Tol %
Note: Full name of the above is: <i>Host Management Facilities/VM Release 1</i> (HMF/VM). @ HMF/VM R1.1 is VMSES/E enabled. % For support of z/VM V3 and V4 R1, HMF/VM 1.1.1 requires PTF UM29829 (APAR VM62632). For z/VM V4 R2, the PTF for APAR number 62632 is required and has been pre-applied when HMF/VM is ordered via the SDO for z/VM V4 R2 (5739-A04). * As of Sept. 5, 2001, Feature number 5767 was withdrawn from marketing. End of Service for feature 5767 is Sept. 30, 2002.									
IBM Backup and Restore Manager for z/VM	5697-J06 (4/29/05)	1.1.0	-	-	-	-	-	Exp XCTol	Exp XCTol
Note: IBM Backup and Restore Manager for z/VM (5697-J06) was announced on April 22, 2005 (205-039). Availability is planned for April 29, 2005.									
Note: IBM BASIC 1.1.x, 5668-996; EoS = 12/86.									
IBM BASIC VM	5668-996	1.2.0	370A	370A	370A	370A	370A	370A	370A
IBM C for VM/ESA	5654-033	3.1.0 @	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: IBM C for VM/ESA is a replacement for IBM C/370 Compiler (5688-187) and AD/Cycle C/370 (5688-216). Requires (IBM) Language Environment for MVS & VM Rel. 5 (5688-198) or the Common Execution Library (CEL) that is shipped with VM/ESA V2 (5684-112) to execute. @ IBM C for VM/ESA is VMSES/E enabled.									
IBM C/C++ for z/VM	5654-A22	1.1.0 @	-	-	-	-	-	Exp XCTol	Exp XCTol
Note: @ IBM C/C++ for z/VM is VMSES/E enabled.									
IBM Cobol for MVS & VM	5688-197 (EoS 12/31/01)	1.2.0 Withdrawn \$ 9/06/00	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: This product was formerly known as AD/Cycle Cobol/370. The product number, 5688-197, remains unchanged. \$ IBM cobol for MVS & VM is replaced by IBM Cobol for OS/390 & VM, 5648-A25 . See entry on page 17.									

Table 1 (Page 30 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
IBM Debug Tool for z/OS and OS/390	5688-194 (EoS 5/31/04)	1.3.0 Withdrawn 3/31/03	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
Note: IBM Debug Tool for z/OS and OS/390 V1 R3 is the replacement product for Code/370 V1 R2. It supports VM/ESA and z/VM, with limitations. See IBM Announcement Letter 201-340, dated November 27, 2001 or the IBM Sales Manual entry for 5688-194, for additional information.									
IBM Debug Tool for z/VM V4.1	5654-A23	4.1.0 @	-	-	-	-	-	Exp XCTol	Exp XCTol
Note: See IBM Announcement Letter 204-212, dated September 21, 2004 or the IBM Sales Manual entry for 5654-A23, for additional information.									
Note: Debug Tool uses OS Simulation macros for I/O which necessitates the Debug Tool operating system interface module to be resident below the 16 MB line.									
IBM PL/I for MVS & VM	5688-235	1.1.1	Tol	Tol	Tol	Tol	Tol	Tol	Tol
IBM PL/I Workstation Function for IBM PL/I	Feature of 5688-235	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: IBM PL/I Workstation Function may be ordered as an MES for installed users of IBM PL/I for MVS & VM or IBM OS PL/I V2. The charge type selected for the base program must be a monthly license charge.									
Note: IBM PROLOG 1.1.0, 5706-236; EoS = 3/31/91. Needs 370ACCOM ON									
IBM PROLOG	5706-236 (EoS 6/30/96)	1.2.2 Withdrawn 2/29/96							
Note: IBM Prolog (5706-236) replaces VM/Prolog (5785-ABH) program offering. IBM Prolog is replaced by AD/Cycle Prolog/MVS & VM (5696-309).									
Note: IBM Prolog Language Workbench/VM 1.1.0, 5787-AAF; EoS = 6/30/92 and was withdrawn from marketing effective 12/18/92.									
IBM Tape Manager for z/VM	5697-J08 (4/29/05)	1.1.0	-	-	-	-	-	Exp XCTol	Exp XCTol
Note: IBM Tape Manager for z/VM (5697-J08) was announced on April 22, 2005 (205-036). Availability is planned for April 29, 2005.									
Note: IBM VisualLift for MVS, VSE and VM V1 R1.0, 5648-109: Withdrawn: 9/2000, End of Service: 6/30/2002.									
IBM VisualLift for MVS, VSE and VM	5648-109 (EoS 3/31/03)	1.1.1 Withdrawn 3/31/03	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol

Table 1 (Page 31 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
IBM VisualLift for MVS, VSE and VM	5648-109 (EoS 3/31/03)	1.1.2 Withdrawn 9/06/00	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: ICKDSF, 5747-DS1, is Stand Alone, while ICKDSF for VM, 5684-042, is a CMS program. They perform similar/same function, but the former is not Operating System dependent; and therefore is not contained in this Matrix.									
Note: ICKDSF (for VM) 1.11.0, 5684-042; EoS = 6/28/91. ICKDSF (for VM) 1.12.0, 5684-042; EoS = 3/31/92. ICKDSF (for VM) 1.13.0, 5684-042; EoS = 6/30/93. ICKDSF (for VM) 1.14.0, 5684-042; EoS = 5/20/94. ICKDSF (for VM) 1.15.0, 5684-042; EoS = 9/30/95.									
ICKDSF for VM	5684-042 (EoS 11/30/03)	1.16.0 Withdrawn 11/22/02	Tol	Tol	Tol	Tol	Tol	Tol	Tol
ICKDSF for VM	5684-042	1.17.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: IFS 1.1.0, 5748-XXC; EoS 2/90.									
Note: IGES Processor 1.1.0, 5668-904; EoS 2/89. IGES Processor 2.2.0 is superseded by IGES Processor 2.3.0.									
IGES Processor	5688-047	2.3.0 Withdrawn 8/27/97							
IGES Processor	5648-001	3.1.0 Withdrawn 9/3/03	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: Full name for IGES is: <i>Initial Graphics Exchange Specification Processor</i> . Version 3 was available 9/17/93.									
Note: IHF 2.1.2, 5664-363; EoS = 11/90. IHF = <i>Image Handling Facility</i> . IHF is still being marketed although it is past end of currency.									
Note: IISR 1.1.0, 5688-199; EoS = 12/31/92. IISR was withdrawn from marketing 7/06/93. IISR = <i>IBM Integrated Information Storage and Retrieval</i> .									
Note: Info Center/1 Version 1 Release 1, 5668-897; EoS = 12/31/92. Info Center/1 is superseded by the Info Center/E feature of IBM Application System 2.2.0 (5688-108) and AS Version 3 (5648-018). The Info Center/E feature is supported in the same environments as AS 2.2.0 which includes VM/ESA.									
Info /Management	5664-322	3.1.0		-	-	-	-	-	-
Info /System	5664-323	3.1.0		-	-	-	-	-	-
Note: * Info/Sys APAR VM48700 (PTF UV54857) is needed in VM/ESA R2 environment.									
Info VM/VSE	5668-919 (12/31/98)	3.1.0	na	na	na	na	na	na	na
Note: Info VM/VSE is a data tape to be used in conjunction with Info /System (5664-323). Central Programming support is NOT provided.									
INSPECT	5658-995 (EoS 4/24/98)	1.1.0 Withdrawn 6/30/97		-	-	-	-	-	-

Table 1 (Page 32 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
ISPC V2	5688-092	2.1.1	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: ISPC = <i>Industry Standard Plotting Commands</i>									
Note: ISPF V2 for VM Release 2, 5664-282; EoS = 9/27/93. ISPF V2 for VM/XA Release 2, 5684-014; EoS = 1/18/93. ISPF V3 for VM 3.1 0, 5684-043; EoS = 9/27/93.									
ISPF V3 for VM	5684-043 \$	3.2.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: See the Installation Bucket for ISPF for the latest information on installing ISPF V3 for VM. \$ End of Service for the SCLM component only: 4/24/98									
Note: ISPF/PDF V2 for VM Release 2, 5664-285; EoS = 9/27/93. ISPF/PDF V2 for VM/XA 2.2.0, 5684-015; EoS = 1/18/93. ISPF/PDF V3 for VM 3.1.0, 5684-123; EoS = 3/31/92.									
ISPF/PDF V3 for VM	5684-123 \$	3.2.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: \$ End of Service for the SCLM component only: 4/24/98									
Note: KnowledgeTool 1.1.1, 5798-RXD; EoS = 12/18/91. KnowledgeTool Version 1 was withdrawn from marketing 9/18/91. It is replaced by KnowledgeTool Version 2 Release 2 (5685-010).									
Note: KnowledgeTool 2.1.x, 5685-010; EoS 10/90.									
KnowledgeTool	5685-010 (EoS 12/14/96)	2.2.0 Withdrawn 2/14/96							
Note: LanguageAccess 1.1.0, 5688-172; EoS = 6/30/92. LanguageAccess 1.1.1, 5688-172; EoS = 5/06/93. Full name of this product is <i>IBM SAA LanguageAccess</i> . LanguageAccess was withdrawn from marketing effective 1/06/93.									
Note: (IBM) Language Environment for MVS & VM: LE 1.4.0, 5688-198; EoS 1/31/01 LE 1.5.0, 5688-198; EoS 9/30/02 LE 1.6.0, 5688-198; EoS 9/30/02 LE 1.8.0 is shipped with z/VM V3.1, V4, and V5. In z/VM V4 LE is upgraded to the level shipped in z/OS Release 4 and shipped as a base component of z/VM. No other levels of LE are supported for VM.									
Note: LANRES/VM 1.1.0, 5799-DZR; EoS = 3/31/92. The above was PRPQ # P81088, it is replaced by the program product below.									
Note: LANRES/VM 1.1.0, 5684-142; EoS = 12/31/93. LANRES/VM 1.2.0, 5684-142; EoS = 6/30/96 LANRES/VM 1.2.1, 5684-142; EoS = 6/30/96 LANRES/VM 1.2.2, 5684-142; EoS = 6/30/96									
LANRES/VM	5684-142	1.3.0 * Withdrawn 3/07/00	Feature @	Feature @	-	-	-	-	-

Table 1 (Page 33 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
LANRES/VM	5684-142	1.3.1 * Withdrawn 3/07/00	Feature @	Feature @	-	-	-	-	-
<p>Note: LANRES/VM is included as a feature of VM/ESA Version 2 and z/VM Version 3. As of z/VM Version 4 LANRES/VM is withdrawn and it is not supported on z/VM V4 or V5. See IBM Announcement letter 201-163, dated May 29, 2001 for additional details.</p> <p>@ ... The LANRES/VM and LFS/ESA features of VM/ESA, 6063 and 6083, were withdrawn from marketing as of 3/7/00. The LANRES/VM features for z/VM V3, 6468 and 1014, are withdrawn from marketing effective June 30, 2003.</p> <p>Alternatives for LANRES/VM are documented in the redbook titled <i>S/390 File and Print Serving</i>, order number SG24-5330, and available at website publib-b.boulder.ibm.com/Redbooks.nsf/RedbookAbstracts/sg245330.html?Open, and in the white paper titled <i>Migration Roadmap for LANRES for z/VM Customers - Where to go from here?</i>, available at website www.ibm.com/servers/eserver/zseries/library/whitepapers/lanres_zvm_migration.html.</p> <p>LANRES/VM R3 is VMSES/E enabled.</p> <p>* Support for Novell Netware V3.11 is discontinued effective 6/30/96. See announcement letter 995-149 for details.</p>									
Note: LAN File Services/ESA 1.1.0, 5648-039; EoS 6/30/96.									
LAN File Services/ESA	5648-039 Withdrawn 3/07/00	Feature of 5654-030	Feature @	- \$	- \$	- \$	- \$	- \$	- \$
<p>Note: LFS/ESA R1 is VMSES/E enabled.</p> <p>LFS/ESA is included as a feature of VM/ESA Version 2 and subsequent releases.</p> <p>@ ... The LANRES/VM and LFS/ESA features of VM/ESA, 6063 and 6083, were withdrawn from marketing as of 3/7/00. Alternatives for LANRES/VM are documented in "<i>S/390 File and Print Serving</i>", order number SG24-5330.</p> <p>\$... LFS/ESA is not shipped with z/VM Version 3, Version 4, or Version 5 and is not supported on these operating system.</p>									
<p>Note: LISP products are not found in this table because: LISP AE 1.1.0, 5664-334; LISP DE 1.1.0, 5664-335; and LISP/VM 1.2.3, 5798-DQZ are all now Vendor Products.</p> <p>LISP/VM, 5798-DQZ is withdrawn from marketing as of 12/31/97. No service or support is currently provided by IBM.</p>									
<p>Note:</p> <p>LLF Under VM/ESA R1.0 5799-EGW has been withdrawn and is no longer supported.</p> <p>LLF = <i>Limited Lock Facility</i> .</p>									
LLF VM/ESA PRPQ 1.1	5799-EGW	1.1.1	\$	\$	\$	\$	\$	\$	\$
<p>Note: LLF = <i>Limited Lock Facility</i> , PRPQ # P04047.</p> <p>Supports TPF Version 3 Release 1 for LLF testing with the hardware or via simulation.</p> <p>\$ LLF function is superseded by the Multi Path Lock Facility simulation capability in VM/ESA Release 2 and later. This provides a test environment for TPF customers to test their systems without requiring the additional Multi Path Lock Facility hardware.</p>									
Note: Lotus 1-2-3/M 1.1.0, 5713-AGL; EoS = 9/92.									
Lotus 1-2-3/M	5713-AGL	1.2.0 Withdrawn							
Lotus 1-2-3/M	5713-AGL	1.2.1 Withdrawn							
Note: Still supported for VM/ESA V2 R1									
Note: MAP (Manu. Auto. Proto.) 1.3.1, 5798-FBG; EoS = 11/90.									
Note: MPSX 1.1.7, 5740-XM3; EoS 6/89.									
Note: MPSX/370 Version 2 Release 1, 5668-739; EoS = 12/31/91.									

Table 1 (Page 34 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
MPSX/370 V2	5668-739	2.2.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
MPSX/370 V2	5668-739	2.2.1	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: MPSX 2.2.0 was the level available in the USA. MPSX 2.2.1 was the level available in EMEA and AFE.									
MPSX/370 V2	5668-739	2.2.2	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
MSHF2	5688-091	1.1.0							
Note: MSHF2 = Matrix Switch Host Facility 2									
Note: MUMPS/VM 3.1.0, 5706-218; EoS = 12/91.									
MUMPS/VM	5706-218 (EoS 2/10/95)	3.2.0 Withdrawn 2/10/95	-	-	-	-	-	-	-
Note: MUSIC/SP 2.1.0, 5750-ACF; EoS = 12/90. MUSIC/SP 2.2.0, 5750-ACF; EoS = 12/31/91.									
MUSIC/SP	5750-ACF	2.3.0							
MUSIC/SP	5750-ACF	2.4.0							
Note: MUSIC/SP is published and licensed by McGill University Systems Inc..									
Note: NCPG 1.2.1 and 1.2.2, 5668-757; EoS = 10/30/93.									
NCPG	5668-757	1.2.3 Withdrawn 8/27/97	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: NCPG/XL 1.1.1 and 1.1.2, 5688-030; EoS = 10/30/93.									
NCPG/XL	5688-030	1.1.3 Withdrawn 8/27/97	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
NETCENTER Graphic Network Monitor	5799-DQW	1.1.0							
Note: NETCENTER (PRPQ # P85133) allows VM to be a sub-host attached to an MVS host running NETCENTER Graphics Network Monitor Program Offering, 5793-AJX.									
Note: NetView 1.2.0, 5664-204; EoS = 12/90.									
NetView	5664-204 (EoS 11/15/96)	1.3.0 Withdrawn 3/09/94							
Note: NetView Version 1 was withdrawn from marketing 3/09/94. It is replaced by NetView Version 2 for VM/ESA (5756-051). * APAR # VM40639 (NetView PTFs: UV50979 (for Rel 312) and UV50978 (for Rel 311). --- available now. Also see NetView APAR #: VM43897 and VM44265 (PTFs: UV51453 and UV51763 respectively).									
Note: NetView DM 1.1.0, 5684-017; EoS 6/90.									
NetView DM	5684-017 (EoS 10/1/97)	1.2.0 Withdrawn 3/31/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol

Table 1 (Page 35 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
NetView FTP VM	5684-048 (EoS 10/31/99)	1.1.1 Withdrawn 3/31/97	Tol	Tol	Tol	Tol	Tol	Tol	
Note: NetView SolutionPac 1.1.0, 5759-025; EoS = 4/17/93. Full name of this product was: <i>IBM SolutionPac NetView Automated Network Operations/VM</i> . NetView SolutionPac was withdrawn from marketing 12/15/92.									
NetView V2 for VM	5684-111 (EoS 10/1/97)	2.2.0 * Withdrawn 1/03/96		-	-	-	-	-	-
Note: No future enhancements are planned for the NetView V2 for VM (5684-111) product. * COS (common operational services) gateway function is available with APAR VM55147 (PTFs: UV57611-UV57613).									
NetView V2 for VM/ESA	5756-051 (EoS 5/31/94)	2.2.0 Withdrawn 3/03/03		-	-	-	-	-	-
NetView V2 for VM/ESA	5756-051 (EoS 12/31/95)	2.3.0 * Withdrawn 3/03/03	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: NetView V2 R3 for VM/ESA co-reqs ACF/NCP Version 4 (5668-854) and VTAM Version 3 Release 3 for VM/ESA (5684-095), or later releases. * See APAR VM55427 for Pipeline automation function.									
Note: NetView/Access 1.1.0, 5684-028: EoS 12/90. NetView/Access 1.2.0, 5684-028: EoS 6/30/92 NetView/Access 1.3.0, 5684-028: EoS 4/30/96 NetView/Access 1.3.1, 5684-028: EoS 4/30/96									
NetView/Access	5684-028	1.3.2 Withdrawn 6/07/95	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: NetView Performance Monitor (NPM) Version 1: NPM 1.2.0, 5684-001: EoS 6/88 NPM 1.3.0, 5684-001: EoS 8/28/92 NPM 1.5.0, 5684-001: EoS 6/30/94 NPM 1.5.1, 5684-001: EoS 6/30/94									
NPM	5684-001 (EoS 4/24/98)	1.6.0 Withdrawn 6/27/97	Exp	Exp	Exp	Exp	Exp	Exp	Exp
NPM	5654-011 (EoS 4/24/98)	2.1.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
NPM	5654-011	2.2.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: Compatibility: NPM Version 2 to NPM Version 1 communication is not supported. NPM V2 co-reqs: ACF/NCP Version 4 or later, VSE/VSAM Version 1 or later, and ACF/VTAM V3 R4 or later.									
NPSI	5668-981 (EoS 9/30/95)	1.4.3 Withdrawn 12/31/93	na	na	na	na	na	na	na
Note: NPSI Version 1 Release 4.3 was withdrawn from marketing 12/31/93.									

Table 1 (Page 36 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
NPSI	5668-719 (EoS 9/30/95)	2.1.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
<p>Note: NPSI 3.1.0; EoS 9/89. NPSI X.25 3.2.0, 5688-035; EoS = 12/31/91. NPSI X.25 3.3.0, 5688-035; EoS = 12/31/92. NPSI X.25 V3 R3.0 was withdrawn from marketing 9/21/93.</p>									
NPSI X.25	5688-035 (EoS 9/30/95)	3.4.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
NPSI X.25	5688-035 (EoS 9/30/95)	3.5.0 Withdrawn 9/28/90	na	na	na	na	na	na	na
NPSI X.25	5688-035 (EoS 9/30/95)	3.6.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
NPSI X.25	5688-035 (EoS 6/30/99)	3.7.0 Withdrawn 6/30/95	na	na	na	na	na	na	na
NPSI X.25	5688-035	3.8.0 Withdrawn 9/25/98	na	na	na	na	na	na	na
NPSI X.25	5688-035	3.9.0	na	na	na	na	na	na	na
<p>Note: NPSI = NCP Packet Switching Interface. NPSI pre-reqs the appropriate levels of ACF/NCP and ACF/SSP. Refer to the announcement letters for complete details.</p>									
NRF	5668-963 (EoS 10/5/04)	1.3.0 Withdrawn 9/3/03							
NRF	5668-963 (EoS 12/30/92)	1.4.0 Withdrawn 9/3/03	na	na	na	na	na	na	na
<p>Note: NRF 1.5.0, 5668-963; EoS = 12/92.</p>									
NRF	5668-963	1.6.0 Withdrawn	na	na	na	na	na	na	na
NRF	5668-963 (EoS 9/30/95)	1.7.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
NRF	5668-963	1.8.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
NRF	5668-963	1.9.0	na	na	na	na	na	na	na
<p>Note: NRF = Network Routing Facility. NRF pre-reqs the appropriate levels of ACF/NCP and ACF/SSP. For Release 9 these are ACF/NCP V7 R1.0 and ACF/SSP V4 R1.0.</p>									
<p>Note: NSF 1.2.0, 5685-003; EoS = 12/31/90. NSF 1.3.0, 5685-003; EoS = 12/31/92. NSF 1.4.0, 5685-003; EoS = 12/31/93.</p>									

Table 1 (Page 37 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
NSF	5685-003	1.5.0	370A	370A	370A	370A	370A	370A	370A
Note: NSI 1.4.0, 5668-951; EoS 9/89.									
NSI	5668-951 (EoS 3/31/02)	1.5.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
Note: NSI 1.5.1, 5668-951; EoS = 6/30/92.									
NSI	5668-951	1.6.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
Note: NSI = <i>Non-Sna Interconnect</i> . NSI 1.6.0 is expected to be the last release of NSI. It is recommended for use with 3745s and 3720s.									
Note: NTO 1.1.x and 1.2.x; EoS 11/90.									
NTO	5735-XX7 (EoS 3/31/02)	1.4.0	na	na	na	na	na	na	na
NTO	5735-XX7	1.5.1 Withdrawn 9/3/03	na	na	na	na	na	na	na
Note: NTO 1.6.0, 5735-XX7; EoS = 12/92.									
NTO	5735-XX7	1.7.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
NTO	5735-XX7 (EoS 9/30/95)	1.8.0	na	na	na	na	na	na	na
NTO	5735-XX7	1.9.0	na	na	na	na	na	na	na
NTO	5735-XX7	1.10.0 Withdrawn 9/25/98	na	na	na	na	na	na	na
NTO	5735-XX7	1.11.0	na	na	na	na	na	na	na
Note: NTO = <i>Network Terminal Option</i> . NTO pre-reqs the appropriate levels of ACF/NCP and ACF/SSP. For Release 10 these are ACF/NCP V7 R1.0 and ACF/SSP V4 R1.0.									
NTuneMON	5648-077 (EoS 10/28/96)	1.1.0 Withdrawn 9/06/00	Tol	Tol	Tol	Tol	Tol	Tol	Tol
NTuneMON	5648-077 (EoS 3/31/02)	1.2.0 Withdrawn 09/06/00	Tol	Tol	Tol	Tol	Tol	Tol	Tol
NTuneMON for MVS and VM	5648-141 (EoS 3/31/02)	2.1.0 Withdrawn 3/29/96	Tol	Tol	Tol	Tol	Tol	Tol	Tol
NTuneMON for MVS and VM	5648-141 (EoS 3/31/02)	2.2.0 Withdrawn 11/29/96	Tol	Tol	Tol	Tol	Tol	Tol	Tol
NTuneMON for MVS and VM	5648-141 (EoS 3/31/02)	2.3.0 Withdrawn 9/26/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol

Table 1 (Page 38 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
NTuneMON for MVS and VM	5648-141	2.4.0 Withdrawn 10/30/98	Tol	Tol	Tol	Tol	Tol	Tol	Tol
NTuneMON for MVS and VM	5648-141	2.5.0 Withdrawn 9/24/99	Tol	Tol	Tol	Tol	Tol	Tol	Tol
NTuneMON for MVS and VM	5648-141	2.6.0 Withdrawn 8/25/00	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: NTuneMON replaces the SSP Version 3 NCPMON Feature.									
NTuneMON	5648-D72	3.1.0 Withdrawn 7/27/01	Tol	Tol	Tol	Tol	Tol	Tol	Tol
NTuneMON	5648-D72	3.2.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: Note: The tuning feature of NTuneNCP, 5648-089, is now shipped with NTuneMon Version 3. Refer to IBM Announcement Letters 200-1629, dated June 13, 2000, and 201-167, dated June 12, 2001 for additional details.									
NTuneNCP	5648-089 % (EoS 3/31/02)	1.1.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
Note: Note: The tuning feature of NTuneNCP, 5648-089, is now shipped with NTuneMon Version 3, ACF/NCP Version 7, Release 8.1 and ACF/SSP Version 4, Release 8.1. Refer to the following IBM Announcement Letters for additional details: 200-162, dated June 13, 2000 201-167, dated June 12, 2001 201-169, dated June 12, 2001									
ODPS/RMS	5799-CZK (EoS 10/16/98)	1.1.0 Withdrawn 10/31/97							
ODPS/RMS	5799-CZK (EoS 10/16/98)	1.2.0 Withdrawn 10/31/97							
Note: ODPS has all panels, messages, and Help in Japanese only.									
OfficeVision Enhanced Calendar/VM	5799-FFC	1.1.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: The above is PRPQ # PB0008. Provides CUA compliant interface and many enhancements. Pre-reqs. OV/VM Rel 2 with <ul style="list-style-type: none"> • OV/VM PTF UN22061 • OV/VM PTF UN44509 (new calendar API code) 									
OfficeVision Enhanced Mail Addressing	5799-FPL	1.1.0	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol

Table 1 (Page 39 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
OfficeVision Extensions/VM	5799-FBK (EoS 1/31/95)	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: OfficeVision Extensions/VM is PRPQ # P81218 available in the US and EMEA (in EMEA it is listed under product number = 5785-EER). Consists of applications and tools providing more than 20 functions.</p> <p>For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)</p>									
OfficeVision ToolKit	5799-FLX	1.1.0 Withdrawn 1/15/98	Tol	Tol	Tol	Tol	Tol	Tol	Tol
OfficeVision ToolKit Vol. 2	5799-FQW	1.1.0 Withdrawn 1/15/98	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: OfficeVision/VM 1.1.0, 5684-084; EoS = 3/27/93 - 6/93</p>									
OfficeVision/VM	5684-084 + (EoS 5/31/97 @)	1.2.0 Withdrawn 6/28/96	-	-	-	-	-	-	-
<p>Note: The OV/VM ESA Calendar Feature was available 2/94. It provides users of OV/VM with an optional full replacement for the OV/VM Release 2 calendar manager, with improved performance and capacity. This feature exploits 31-bit addressing, the CMS Shared File System, and VM Data Spaces.</p> <p>* See APAR PN32689 (PTF UN32597) for the VM/ESA ESA and VM/XA environments.</p> <p>% See APAR PN29985 (PTF UN35556) for new OV/VM function and some minor VM/ESA R2 environment compatibility items. Also see PN20088 (PTF UN27004).</p> <p>\$... See APAR PN40989 (PTF UN49261) for the VM/ESA R2.1 environment.</p> <p>+ ... OfficeVision/VM only supports the environments where the VM components CP and CMS are at the same release level. @ ... Release 1 of the OfficeVision/VM ESA Calendar feature also ends service 5/97.</p> <p>The Online Books Feature of OfficeVision/VM became available 5/22/92 (this is read only softcopy documentation).</p> <p>A per user based fee structure was available 5/93 for OfficeVision/VM (7/01/93 in EMEA).</p>									
OfficeVision/VM	5684-084 + (EoS 4/30/99)	1.3.0 Withdrawn 12/19/97	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *
<p>Note: + OfficeVision/VM only supports the environments where the VM components CP and CMS, are at the same</p> <p>* Service is required for VM/ESA 2.2.0 support.</p>									
OfficeVision/VM	5684-084 + (EoS 10/06/03 %)	1.4.0 Withdrawn 9/12/02	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
<p>Note: + OfficeVision/VM only supports the environments where the VM components, CP and CMS, are at the same.</p> <p>% The Calendar Feature of OV/VM R4 is also withdrawn from marketing and will end service October 6, 2003.</p>									
<p>Note: OFSP/VM Version 1 Release 2, 5664-361; EoS = 03/31/93. OFSP/VM Version 1 was withdrawn from marketing effective 10/31/91.</p>									

Table 1 (Page 40 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
OFSP/VM	5684-104 (EoS 10/16/98)	2.1.0 Withdrawn 10/31/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: full name of the above is: <i>Office Support Program/VM Version 2.</i> <ul style="list-style-type: none"> • OFSP has all panels, messages, and help in Japanese only. • Announced as part of the Office Vision/VM Asian Language Series. 									
Note: OGL/VM 1.1.0, 5664-293; EoS = 9/19/90. OGL/VM 1.2.0, 5664-293; EoS = 10/91.									
OGL/370	5688-191	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: OGL/370 replaces OGL/VM Release 2. OGL = <i>Overlay Generation Language.</i>									
Open Network Distribution Services/VM	5684-139 (EoS 9/01/95)	1.1.0 Withdrawn 3/03/95							
Note: IBM Open Network Distribution Services/VM (ONDS/VM) extends function from that provided by OSME/VM and X.400 MTF/VM.									
OPSS/VM	5785-DHG	2.1.0 Withdrawn 10/92							
Note: OPSS = <i>Online Project Support System.</i> This is an EMEA only program offering (only delivered with German Language). Withdrawn from marketing 10/92; OPSS is replaced by <i>AD/Cycle PrDM</i> (5648-005).									
Note: OS PL/I C, L, & ITF Version 2 Release 1, 5668-909; EoS = 12/90. OS PL/I C, L, & ITF Version 2 Release 2, 5668-909; EoS = 12/91.									
OS PL/I C, L, & ITF	5668-909 (EoS 12/31/03)	2.3.0 Withdrawn 9/06/00	Tol %	Tol %	Tol %	Tol %	Tol %	Tol %	Tol %
Note: % Requires PTF UN56803 for VM/ESA V2.									
Note: OS PL/I Comp & Lib Version 2 Release 1, 5668-910; EoS = 12/90. OS PL/I Comp & Lib Version 2 Release 2, 5668-910; EoS = 12/91.									
OS PL/I Comp & Lib	5668-910 (EoS 12/31/03)	2.3.0 Withdrawn 9/06/00	Tol %	Tol %	Tol %	Tol %	Tol %	Tol %	Tol %
Note: % Requires PTF UN56803 for VM/ESA V2.									
Note: OS PL/I Library Version 2 Release 1, 5668-911; EoS = 12/90. OS PL/I Library Version 2 Release 2, 5668-911; EoS = 12/91.									
OS PL/I Library	5668-911 (EoS 12/31/03)	2.3.0 Withdrawn 9/06/00	Tol %	Tol %	Tol %	Tol %	Tol %	Tol %	Tol %
Note: % Requires PTF UN56803 for VM/ESA V2.									

Table 1 (Page 41 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
OS VS COBOL C&L	5740-CB1 (EoS 6/30/94)	1.2.4 Withdrawn 12/18/92	Tol *						
<p>Note: * see information APARs II06252 and II06461.</p> <p>OS VS Cobol Compiler and Library is replaced by AD/Cycle COBOL/370 or VS COBOL II. The AD/Cycle COBOL/370 product (renamed IBM Cobol for MVS and VM) is the preferred migration target as it is IBM's strategic COBOL product for the System/370 & System/390 platform within the AD/Cycle framework.</p> <p>OS VS COBOL C & L (5740-CB1) and OS VS COBOL Library (5740-LM1) were withdrawn from marketing 12/18/92.</p> <p>There is an OS/VS Cobol Product Support offering for OS VS COBOL that extends support until 6/30/96 for a fee (see announcement letter 393-087).</p>									
OS VS COBOL Library	5740-LM1 (EoS 6/30/94)	1.2.4 Withdrawn 12/18/92	Tol *						
<p>Note: * see information APARs II06252 and II06461.</p>									
<p>Note: OSI/CS 1.1.0, 5684-013; EoS = 6/91.</p>									
OSI/CS	5684-013	1.1.1							
<p>Note: Refresh service for OSI/CS R1.1 was available 11/27/92.</p>									
OSI/FS	5684-038	1.1.0							
<p>Note: Refresh service for OSI/FS R1.0 was available 11/27/92.</p>									
<p>Note: OSI/MMS 1.1.0, 5684-107; EoS = 12/26/92.</p>									
OSL for MVS, VM & AIX/370	5688-137 (EoS 4/3/05)	1.2.0 Withdrawn 1/14/04	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: OSL = <i>Optimization Subroutine Library</i> .</p>									
<p>Note: OSME (Open System Message Exchange), 1.0.0, 5684-061; EoS = 6/28/91. OSME is replaced by OSI/CS and ONDS.</p>									
<p>Note: OSNS Version 1 Release 2, 5664-382; EoS = 4/30/93. OTSS Version 1 Release 2, 5664-382; EoS = 4/30/93. OSNS and OTSS were World Trade products ONLY. They are superseded by OSI/CS and OSI/FS. OSNS for VM and OTSS for VM were withdrawn from marketing 1/31/93.</p>									
OV/VM Support for Lotus Notes Clients	5648-A20 (EoS 9/30/02)	1.1.0 Withdrawn 1/23/98	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
OV/VM Support for Lotus Notes Clients	5648-A20 (EoS 9/30/02)	1.2.0 Withdrawn 9/05/01	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
OV/VM To Notes Migration Tools	5639-B79 (EoS 10/6/03)	1.1.0 Withdrawn 9/12/02	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
<p>Note: Parallel FORTRAN PRPQ 1.0.0, 5799-CTX; WFM = 3/31/98, EoS = 9/91. See <i>CMS Parallel FORTRAN RPQ</i>.</p>									
Pass-Through	5684-100	2.1.0 Withdrawn	370A	-	-	-	-	-	-

Table 1 (Page 42 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
Pass-Through	5684-100	2.1.1 %	370A *	370A *	370A *	370A *	370A *	370A *	370A *
<p>Note: On 2/15/94 IBM announced a significant price reduction on Pass-Through Version 2. For TCP/IP Line driver support see APAR VM57537 (PTF UV90727), available 4/08/94. Full name for Pass-Through is: <i>VM/Pass-Through Facility</i>. Pass-Through V2 is a replacement for PVM (5748-RC1). % Pass-Through Release Version 2 Release 1.1 is VMSES/E enabled and includes CVIEW 2.1.3 (5664-296) as a component. SVM (Service Virtual Machine Runtime Library) is removed from the Pass-Through V2 R1.1 product and included in the VM/ESA product at the VM/ESA Release 2.1 level and later. * Pass-Through 2.1.1 requires PTF UV60093 (APAR VM61373) to run on VM/ESA Version 2 Release 3 and Release 4 and z/VM Version 3 and Version 4 Release 1. For z/VM Version 4 Release 2, the PTF for APAR number VM61373 is required. This service is pre-applied when Pass-Through 2.1.1 is ordered through the SDO for z/VM V4 R2 (5739-A04).</p>									
Note: PC/VM BOND 2.1.0, 6467-022; EoS 12/89.									
PES	5684-065	1.1.3							
Note: Full name of PES is: <i>IBM Product Engineering Support</i> .									
Note: PL/I: see also <i>OS PL/I</i> .									
Performance Toolkit for VM	Feature of 5739-A03	FL440	-	-	-	-	-	Exp @	-
Performance Toolkit for VM	Feature of 5741-A05 (EoS 9/30/07)	FL510	-	-	-	-	-	-	Exp @
Note: The Performance Toolkit for VM replaces the RTM and PRF features of z/VM in V5.1.									
PL/I Ckout Comp	5734-PL2 (EoS 12/31/95)	1.3.0 With-drawn							
PL/I OPT C & L	5734-PL3 (EoS 12/31/95)	1.5.1 With-drawn							
PL/I OPT COMP	5734-PL1 (EoS 12/31/95)	1.5.1 With-drawn							
PL/I Res. Lib	5734-LM4 (EoS 12/31/95)	1.5.1 Withdrawn 8/27/93							
Note: The 5734-xxx series of PL/I products are all OS products. The 5734-xxx series of PL/I products above were withdrawn from marketing 8/27/93.									
PL/I Trans Lib	5734-LM5 (EoS 4/4/04)	1.5.1							
Note: PMCP = <i>Project Management Control Program</i> , 5799-EDY PRPQ # P81091; has been Withdrawn, and was EoS 3/93.									

Table 1 (Page 43 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
PMF/VM	5664-310 (EoS 12/15/99)	1.1.0 Withdrawn 12/16/97	370A	370A	370A	370A	370A	370A	370A
Note: PMF = <i>Print Management Facility</i>									
Note: PostScript Interpreter 1.2.0, 5688-104; EoS = 12/31/89. PostScript Interpreter 1.3.0, 5688-104; EoS = 9/91. PostScript Interpreter 1.3.1, 5688-104; EoS = 7/93.									
PostScript Inter- preter	5688-104 (EoS 12/31/95)	1.3.2 Withdrawn 8/31/95	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: PPFA/VM 1.1.0, 5664-199; EoS = 10/91. PPFA/VM was Withdrawn from Marketing on 01/02/91.									
PPFA/370	5688-190	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: PPFA/370 is a replacement for PPFA/VM (5664-199).									
PMO Support/VM	5654-006 (EoS 6/30/95)	1.3.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: PMO = <i>Presentation Manager Office</i> . The initial offering is being called Release 3 to be consistent with release levels of the other PMO programs. The combination of a Personal System/2 program and a host program provides a direct connection between Operating System/2 Version 2 workstations and OfficeVision/VM.									
Note: ProcessMaster 1.2.0, 5664-387; EoS 12/89. ProcessMaster 1.3.0, 5664-387; EoS 8/91.									
PRF	Feature of 5739-A03	FL410	-	-	Exp	Exp *	Exp @	Exp @	-
Note: Starting with z/VM Version 4, VMPRF is shipped as a priced feature of z/VM. See IBM Announcement letter 201-163, dated May 29, 2001, for complete details. * ... VMPRF requires the PTF for APAR number VM62925 for z/VM Version 4 Release 2. This service is pre-applied to VMPRF prior to shipment. See IBM Announcement Letter 201-286, dated October 4, 2001, for additional information. @ ... For z/VM V4 R3, VMPRF requires the PTF for APAR number VM63032. This service is not pre-applied but it is shipped with z/VM V4 R3 on the GA level RSU (Recommended Service Upgrade) tape. See IBM Announcement Letter 202-104, dated April 30, 2002 for additional information. The PRF feature of z/VM is not available with z/VM V5.1. Like function is available with the Performance Toolkit for VM feature. See IBM Announcement Letter 204-057, dated April 7, 2004 and see entry on page 44.									

Table 1 (Page 44 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 * %	V4.1 * %	V4.2 * %	V4.3 * %	V4.4 * %	V5.1 * %
ProcessMaster	5664-387 (EoS 11/28/97)	1.3.1 Withdrawn 3/17/97	Tol XCTol * %	Tol XCTol * %	Tol XCTol * %	Tol XCTol * %	Tol XCTol * %	Tol XCTol * %	Tol XCTol * %
<p>Note: * requires PTF UL88873 -- available 3/01/91.</p> <p>% ProcessMaster 1.3.1 has many restrictions when running in an XA mode virtual machine. See IBM announcement letter 996-250, dated 9/24/96 for details.</p> <p>Notes on Features:</p> <ul style="list-style-type: none"> • If using Critique for grammar checking then the ProcessMaster Service machine must be 370 mode. • The following Features of ProcessMaster VM were withdrawn from marketing effective 4/26/93: <ul style="list-style-type: none"> – CALS Application Feature – Workstation Edition Feature – OS/2 Workstation Driver Feature All 3 above Features ended service on 8/26/93. • TEXTTAGGER Feature (optional) was withdrawn from marketing effective 4/21/92. It is replaced by <i>TextTagger/ESA</i>, 5648-010. • ProcessMaster pre-reqs BrowseMaster (5688-224) and VM Batch Facility (5684-137). 									
<p>Note: PROFS Version 2 Release 1, 5664-309; EoS = 12/88. PROFS Version 2 Release 2, 5664-309; EoS = 3/31/93. PROFS 5664-309 includes PROFS ASF (Application Support Feature).</p>									
<p>Note: PROFS OfficeVision/VM, IBM's strategic office systems solution, is supported in the VM/ESA environment. Please contact your Area Office Systems Specialist with concerns and for further assistance in migrating from PROFS to OV/VM in the VM/ESA environment.</p>									
<p>Note: PROFS Extended Mail 1.1.0, 5798-FBJ; Withdrawn 12/31/97, EoS 12/31/93.</p>									
<p>Note: PROFS Extended Services, 5785-EDY; EoS = 01/31/91. PROFS Extended Services was a Program Offering in EMEA.</p>									
<p>Note: PROFS NMF 1.1.0, 5798-DRT; EoS = 3/31/91.</p>									
<p>Note: PROFS RMS 1.1.0, 5798-FBB; EoS 9/89. PROFS RMS 1.2.0, 5798-FBB; EoS 9/92. RMS = <i>IBM Retention Management System</i></p> <p>PROFS RMS is now just called RMS with the Release 3 level (see the RMS Rel 3 record for the environments supported).</p>									
<p>Note: Prolog -- see IBM/Prolog (5706-236) which replaces VM/Prolog (5785-ABH).</p>									
PSAF/VM	5664-312 (EoS: 1/31/01)	1.1.0 Withdrawn 12/16/97	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: PSAF = <i>Print Services Access Facility</i>.</p>									
<p>Note: PSF/VM 1.2.0, 5664-198; EoS = 3/31/90. PSF Version 1 was withdrawn from marketing 1/31/93. PSF/VM 1.3.0, 5664-198; EoS = 11/30/93.</p>									
PSF/VM	5684-141 (EoS 6/30/95)	2.1.0 Withdrawn 05/01/95							
<p>Note: % see APARs VM53564. \$ PSF Version 2 Release 1 now Tolerates the VM/ESA (ESA) R1 and later, XA and XC virtual machine environments. EXCEPT for 3800 and Group 3 non-SNA PDM's which require a 370 virtual machine environment.</p>									

Table 1 (Page 45 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
PSF/VM	5684-141 (EoS 6/30/95)	2.1.1 Withdrawn 05/01/95 @	Tol XCTol %	Tol XCTol %	Tol XCTol %	Tol XCTol %	Tol XCTol %	Tol XCTol %	Tol XCTol %
<p>Note: PSF = <i>Print Services Facility</i>. The Font products are not listed in this matrix, though they are supported with PSF/VM Version 2 (eg. 5688-021 = Barcode/Optical Character Recognition Fonts or PRPQ 5799-DGX = Postal Bar Codes).</p> <p>@ Font Feature withdrawn 5/95. For future Font support order IBM AFP FONT Collection for IBM Operating Systems (5648-113) listed in this matrix as AFP FONT Collection.</p>									
PTRS	5799-DNE	1.1.0							
<p>Note: PTRS = <i>Problem Tracking & Reporting System</i> , PRPQ # P81050. For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)</p>									
<p>Note: PVM 1.3.0, 5748-RC1; EoS = 11/30/91.</p>									
PVM	5748-RC1 (EoS 9/14/95)	1.4.0 Withdrawn 5/16/95	370A	-	-	-	-	-	-
<p>Note: PVM is replaced by the VM/Pass-Through Facility (5684-100). See the entry for Pass-Through on page 44.</p>									
<p>Note: PVMPCCF 5799-CRJ, PRPQ # P10024 is no longer available.</p>									
<p>Note: QMF 2.2.0 & 2.3.0, 5668-AAA; EoS 12/90.</p>									
QMF	5668-AAA (EoS 3/31/01)	2.4.0 Withdrawn 3/30/92							
<p>Note: QMF Version 2 is replaced by QMF Version 3.</p>									
QMF	5706-255 (EoS 4/26/96)	3.1.0 Withdrawn 7/30/02							
QMF	5706-255 (EoS 3/31/01)	3.1.1 Withdrawn 7/30/02	Exp	Exp	Exp	Exp	Exp	Exp	Exp
QMF	5706-255 (EoS 3/31/01)	3.2.0 Withdrawn 7/30/02	Exp	Exp	Exp	Exp	Exp	Exp	Exp
QMF	5706-255 (EoS 9/30/03)	3.3.0 Withdrawn 9/30/03	Exp	Exp	Exp	Exp	Exp	Exp	Exp
QMF	Feature of 5648-A70 (EoS 9/30/02)	6.1.0 Withdrawn 9/05/01	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
QMF	Feature of 5697-F42 (EoS 5/2/05)	7.1.0 Withdrawn 12/14/01	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
QMF	Feature of 5697-F42	7.2.0 Withdrawn 3/28/03	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *

Table 1 (Page 46 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
QMF	Feature of 5697-F42	7.3.0	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
Note: * ... Starting with DB2 for VSE and VM, Version 6, QMF is shipped as a priced feature of DB2.									
QMF for Windows	5697-D27 @ (EoS 9/30/03)	3.3.0 Withdrawn 7/30/02	na	na	na	na	na	na	na
Note: @.... QMF for Windows 3.3.0 is also a feature of QMF V3 R3 and supersedes the QMF/HPO Shuttle Client feature of QMF V3 R3. See IBM Announcement 297-435, dated 10/28/97, for details.									
QMF for Windows	Feature of 5697-F42	7.2.0 Withdrawn 3/28/03	na	na	na	na	na	na	na
QMF for Windows	Feature of 5697-F42	7.3.0	na	na	na	na	na	na	na
Note: QMF for Windows is a feature of QMF V7 R2.0. See IBM Announcement Letter 202-047, dated February 26, 2002 and 203-046, dated February 18, 2003 for additional information.									
QMF/HPO Shuttle Client	5706-255	3.2.0	na	na	na	na	na	na	na
QMF/HPO Shuttle Client	5706-255	3.3.0 @	na	na	na	na	na	na	na
Note: QMF/HPO Shuttle Client runs under Windows and communicates with DB2 and SQL/DS via DRDA. QMF/HPO Shuttle Client 3.3.0 is superseded by the QMF for Windows feature of QMF 3.3.0. See IBM Announcement 297-435, dated 10/28/97, for additional information.									
Note: RACF/VM 1.8.0, 5740-XXH; EoS = 6/92.									
Note: RACF/VM 1.8.2, 5740-XXH; EoS = 11/05/94 for VM/SP R5 and HPO R5 environments - this is an extension of what was previously noted. 6/92 was EoS for RACF/VM 1.8.2 in the VM/ESA environment.									
RACF/VM	5740-XXH % (EoS 10/31/99)	1.9.0 Withdrawn 4/26/96	-	-	-	-	-	-	-
Note: * PTFs: UV52463, UV53955, UV52471, UV53060, and UV53420; or the product refresh available 10/19/92. \$ PTFs listed in * (above) and PTF UV55653 (APAR VM52545). RACF/VM 1.9.0 code is sensitive to the level of VM/ESA that it is running on. Please reference informational APAR II05253 for details or see the HONE document <i>Installing RACFVM 1.9 with VM/ESA 1.1</i> (ID = E377943). % RACF/VM 1.9.0 ended service effective 8/31/96 for VM/SP, VM/SP XA, VM/ESA 370 feature R1.0 and VM/ESA R2.0 and prior releases.									
RACF/VM	5740-XXH % (EoS 10/31/99)	1.9.2 Withdrawn 4/26/96	-	-	-	-	-	-	-
Note: RACF R9.2 contains C2/B1 security support for VM/ESA R2 and later environments. ('C2' and 'B1' are US Government defined levels of security). * For RACF LOGON BY support see RACF APAR #VM57305. \$ APAR VM59359 is required for VM/ESA V2 % End of Service for RACF/VM 1.9.0 is effective 8/31/96 for VM/SP, VM/SP XA, VM/ESA 370 feature R1.0 and VM/ESA R2.0 and prior releases.									

Table 1 (Page 47 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
RACF/VM	5740-XXH	1.10.0 \$	Svm XCTol	XCTol @	XCTol @	XCTol @	-	-	-
<p>Note:</p> <p>\$... RACF/VM Release 10 requires APAR VM60792 for support of the G4 Enterprise Server. After 5/30/97 RACF/VM Release 10 is refreshed to include this support.</p> <p>@ ... APAR VM62598 is required for z/VM V3 and V4.</p>									
RACF/VM	Feature of 5739-A03	\$	-	-	-	-	XCTol	XCTol	-
RACF/VM	Feature of 5741-A05 (EoS 9/30/07)	\$	-	-	-	-	-	-	XCTol
<p>Note:</p> <p>\$... RACF for VM is now available as an optional priced feature of z/VM V4.3 and later. It is functionally equivalent to RACF/VM V1 R10.0 (5740-XXH). See IBM Announcement Letter 202-104, dated April 30, 2002 (V4.3) and 204-057, dated April 7, 2004 (V5.1) for additional details.</p>									
ReaderWatch	5799-EYW	1.1.0	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
<p>Note: IBM ReaderWatch is PRPQ # P81213.</p> <p>For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)</p> <p>Pre-reqs for ReaderWatch: The WAKEUP and GETFMADR modules from VM/IPF (5665-318) or from the CMS Utilities Feature of VM/ESA.</p>									
<p>Note: REXX/370 Compiler 1.1.0, 5695-013; EoS = 11/28/93. REXX/370 Library 1.1.0, 5695-014; EoS = 11/28/93.</p>									
REXX/370 Compiler	5695-013 (EoS 5/7/95)	1.2.0 Withdrawn 10/27/94							
REXX/370 Compiler	5695-013 (EoS 4/3/05)	1.3.0 Withdrawn 8/29/03	Exp	Exp	Exp	Exp	Exp	Exp	Exp
REXX Compiler for zSeries	5695-013	1.4.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
REXX/370 Library	5695-014 (EoS 5/7/95)	1.2.0 Withdrawn 10/27/94							
REXX/370 Library	5695-014 (EoS 4/3/05)	1.3.0 Withdrawn 8/29/03	Exp	Exp	Exp	Exp	Exp	Exp	Exp
REXX Library for zSeries	5695-014	1.4.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: REXX see also : CMS REXX.</p>									
REXXIUCV	5785-LAT	1.1.0							

Table 1 (Page 48 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
REXXIUCV	5785-LAT	1.1.1	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$	Exp XCTol \$
<p>Note: \$ REXXIUCV 1.1.1 loads below the 16 Meg boundary.</p> <p>REXXIUCV is an EMEA only PRPQ.</p>									
RMS	5798-FBB (EoS 5/31/97)	1.3.0 * Withdrawn 12/31/96	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
<p>Note: * RMS is replaced by the RMS facility in OfficeVision/VM R3. See IBM announcement letter 296-203, dated 6/11/96, for details.</p> <p>Note: Routing Table Generator 1.1.0, 5668-815; Withdrawn 12/31/97, EoS 9/30/91.</p>									
RPG/370	5688-127	1.1.0 Withdrawn 8/20/93	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: RPG/370 was withdrawn from marketing 8/20/93.</p> <p>* APAR VM38519 (PTF UV40966, - which is superseded by UV54583 -) (this is an APAR to VSE/VSAM V1 R4 that RPG pre-reqs).</p> <p>When RPG/370 is installed in saved segments, at least one of the saved segments must reside below the 16 Meg line.</p> <p>Full name of above is: <i>IBM SAA RPG/370 V1.</i></p>									
RPG II	5746-RG1	1.3.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: Full name of RPG II is DOS/VS RPG II</p> <p>Note: RSCS 1.3.0, 5748-XP1; EoS = 8/20/91. RSCS 2.2.0, 5664-188; EoS = 12/31/93.</p>									
RSCS	5664-188 (EoS 9/14/95)	2.3.0 Withdrawn 7/01/92							
<p>Note: Full name for RSCS is <i>VM RSCS Vx</i>, where <i>x</i> = the version number. RSCS/VM Version 2 was withdrawn from marketing 7/92.</p>									
RSCS	5684-096 (EoS 10/25/96)	3.1.0 Withdrawn 10/31/95	Tol	-	-	-	-	-	-
<p>Note: IBM VM RSCS Data Interchange Manager Feature of RSCS Version 3 Release 1 supports transparent E-mail exchange between VM and SMTP users on TCP/IP networks. There is no additional charge for this feature.</p>									
RSCS	5684-096 (EoS 1/31/01)	3.1.1 Withdrawn % 3/24/98	Tol	-	-	-	-	-	-
<p>Note: % RSCS Version 3 Release 1.1 is a complete base refresh and is VMSES/E enabled. RSCS V3 R1.1 includes RSCS Data Interchange Manager feature as a part of the RSCS V3 R1.1 base.</p>									

Table 1 (Page 49 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
RSCS	5684-096	3.2.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: * RSCS V3 R2 is not supported on any release of VM prior to VM/ESA R2.1, including VM/SP, VM/XA SP, VM/SP HPO and VM/ESA 370 features. RSCS V3 R2 will not run in a 370 mode virtual machine.</p>									
<p>Note: RTM/SF 1.2.0, 5798-DWD; EoS = 2/23/92. RTM/SF 1.3.0, 5798-DWD; EoS = 6/89. RTM/SF 1.4.0, 1.5.0, and 1.5.1; 5798-DWD; EoS = 12/31/93. RTM/ESA R5.0 and R5.1 were withdrawn from marketing 8/18/93.</p>									
RTM/ESA	5798-DWD (EoS 11/8/03)	1.5.2 Withdrawn 9/04/02	370A	-	-	-	-	-	-
RTM/ESA	5798-DWD (EoS 12/31/05)	1.5.3 Withdrawn 8/27/04	-	Exp	-	-	-	-	-
<p>Note: * ... Apply latest service. See information APAR II06735:</p> <p>RTM/ESA is VMSES/E enabled for some environments. RTM/ESA 1.5.3 will be withdrawn from marketing effective August 27, 2004. For correct feature codes and ordering instructions, see the SALESMAN application on HONE.</p>									
RTM	Feature of 5739-A03	FL410	-	-	Exp	Exp	Exp @	Exp @	na
<p>Note: Starting with z/VM Version 4, RTM/ESA is shipped as a priced feature of z/VM. See IBM Announcement letter 201-163, dated May 29, 2001, for complete details.</p> <p>Starting with z/VM V5.1, the RTM feature of z/VM has been replaced by the Performance Toolkit for VM. See IBM Announcement Letter 204-057, dated April 7, 2004 and see entry on page 44.</p> <p>@ For z/VM V4 R3, RTM/ESA requires the PTF for APAR number GC05481. This service is pre-applied to RTM/ESA prior to shipment with z/VM V4 R3. See IBM Announcement Letter 202-104, dated April 30, 2002, for additional details.</p>									
<p>Note: RXSQL 1.1.1, 5798-DXT; EoS 5/90. RXSQL is replaced with the RXSQL Feature of SQL/DS V3.1 .</p>									
<p>Note: SAA Delivery Manager/VM 1.1.0, 5684-098; EoS = 1/31/93. SAA Delivery Manager/VM 1.2.0, 5684-098; EoS = 4/15/94. The Delivery Manager/VM product was withdrawn from marketing 12/20/93.</p>									
<p>Note: SAA PrintManager 1.1.0, 5688-179; EoS = 4/19/94. SAA PrintManager Version 1 was withdrawn from marketing 12/21/93.</p>									
<p>Note: SCENAD, 1.1.0, 5668-882; EoS = 4/01/91. SCENAD = <i>IBM Scientific Engineering Application Director</i>.</p>									
ScreenView	Feature of 5684-112	R1.1							
<p>Note: * ScreenView R1.1 pre-reqs OS2 V1.3. % ScreenView R1.1 is an optional feature of VM/ESA R2.2 and future releases.</p>									
ScreenView	Feature of 5684-112	R2.0	X * %	X * %	X * %	X * %	X * %	X * %	X * %
<p>Note: * ScreenView R2.0 pre-reqs OS2 V2. % ScreenView R2.0 is an optional feature of VM/ESA R2.2 and future releases.</p>									
<p>Note: SDF II 1.1.0, 5664-307; EoS = 6/90. SDF II VM 1.2.0, 5664-307; EoS = 12/31/92.</p>									
SDF II VM	5664-307	1.3.0 \$	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: \$ SDF II pre-reqs the appropriate level of ISPF for VM, for that particular VM environment.</p> <p>SDF = <i>Screen Definition Facility</i>.</p>									

Table 1 (Page 50 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
SearchManager/370	5684-143 (EoS 1/31/96)	1.1.0 Withdrawn 2/25/94							
SearchManager/370	5684-143 (EoS 4/24/98)	1.2.0 @ Withdrawn 7/28/95							
SearchManager/370	5684-143	1.3.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: SearchManager/370 is a replacement for STAIRS/CMS (5664-189).</p> <p>@ SearchManager/370 Version 1 Release 2 is VMSES/E enabled.</p> <p>A per user based fee structure is available for SearchManager/370.</p>									
Note: Selective File Filter 1.1.0, 5799-XBB, was withdrawn from marketing in 7/92 and ended service by YE1996.									
Server Tasking Environment/VM	5799-EFR	1.1.0 Withdrawn 3/31/98	*	*	*	*	*	*	*
<p>Note: The above PRPQ (P81089), STEVR/VM, provides multi-tasking and multiprocessing extensions to CMS (This is a NO_CHARGE PRPQ).</p> <p>* With VM/ESA Release 2, Server Tasking Environment/VM support, previously available as a PRPQ (PRPQ P81089; 5799-EFR), is now integrated in the VM/ESA base with some additional enhancements.</p>									
Server Task Manager/370	5799-ELA	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: Server Task Manager/370 is PRPQ # P88652; Supports SUN RPC functions on the host. Support/questions call 1-800-237-5511.</p> <p>Pre-reqs: C/370 Library V1 R2 (5688-039) with PTF UL76659 and TCP/IP for VM Version 2.</p>									
Note: SGML Translator 1.1.0, 5684-025; EoS 5/22/90.									
SGML Translator	5684-025	1.2.0							
Note: \$ PTF UN10104 enables XA Toleration in the VM/ESA (ESA) environment.									
SGML Translator	5684-025 (EoS 11/28/97)	1.3.0 Withdrawn 3/17/97	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: SGML requires that CP and CMS be at the same level.									
SLR	5665-397 (EoS 3/31/01)	3.3.x Withdrawn 12/22/98	na	na	na	na	na	na	na
<p>Note: SLR = <i>Service Level Reporter</i>; runs on MVS.</p> <p>SLR can post process log files from; the VM Monitor, VM Acctg, VM LOGREC, VM NetView, VM NPM, VM RACF, and VM PRF. This processing is done in the MVS environment.</p>									
SnapShot for VM/ESA	5654-A03	1.1.0 @	X	X	X	X	X	X	X
<p>Note: Full name = IBM RAMAC SnapShot for VM/ESA</p> <p>@ SnapShot is also available for customers of the StorageTek ICEBERG 9200. You must submit an RPQ to IBM for each serial-numbered machine. Contact your IBM marketing representative for more information.</p>									
Note: SOEMI 1.1.0, 5664-201, was withdrawn from marketing as of 7/5/94 and ended service in 1995.									
Software License Monitor (SLM)	5648-038 (EoS 10/31/99)	1.1.0 @ Withdrawn	Exp	Exp	Exp	Exp	Exp	Exp	Exp

Table 1 (Page 51 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
Software License Monitor (SLM)	5648-038 (EoS 3/31/02)	1.1.1 @ Withdrawn 3/05/01	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: Software License Monitor (SLM) is a NO CHARGE product in the USA and EMEA. There is a single enterprise charge of \$500.00 in Canada. For charges in other countries check with your local IBM Software marketing organization.</p> <p>@ ... SLM R1 is VMSES/E enabled.</p>									
Solids to Proto-type	5799-DXN	2.1.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: Version 2 supersedes Version 1, P81040 (5799-CZT). Version 2 is PRPQ # P81086. This PRPQ runs with CATIA.</p>									
SQL MASTER/VM	5684-136 (EoS)	1.1.0 Withdrawn							
SQL MASTER/VM	5684-136 (EoS)	1.1.1 Withdrawn							
SQL MASTER/VM	5684-136 (EoS 1/31/01)	1.2.0 Withdrawn 4/20/00	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: SQL/DS 1.3.x, 5748-XXJ; EoS = 3/31/92. SQL/DS 2.1.0, 5688-004; EoS = 3/31/92. SQL/DS 2.2.0, 5688-004; EoS = 6/30/94.</p> <p>In order to migrate from versions of SQL/DS prior to Version 3, you must first migrate to Version 3. To facilitate this migration, a migration kit is being added to DB2 Server for VSE & VM, Version 6 Release 1. Beginning June 25, 1999, all new purchases of DB2 Server for VSE & VM will contain this migration kit.</p>									
<p>Note: SQL/DS 3.1.0 and 3.2.0, 5688-103; EoS = 12/31/93.</p>									
SQL/DS	5688-103 (EoS 7/19/96)	3.3.0 Withdrawn							
<p>Note: \$ VM Data Spaces Support Feature is available with SQL/DS V3.3. With this feature SQL/DS operates in XC mode on VM/ESA R1.1 and R2, and exploits VM Data Spaces.</p> <p>SQL/DS V3 Releases 1, 2, and 3 were withdrawn from marketing 9/01/93 (EMEA EoM = 10/01/93). EMEA EoS for Releases 1 and 2 is 1/31/94.</p> <p>Miscellaneous Notes:</p> <ul style="list-style-type: none"> The DataHub Support/VM Feature of SQL/DS V3 (Release 3 and Release 4) was available 7/93. This is the VM part of the SystemView Information Warehouse DataHub - a database management product set across SAA systems. SAIV (SQL Application Interface for VSAM) is a feature of SQL/DS V2.2 but will no longer be available in SQL/DS Version 3. The RXSQL feature of SQL/DS Version 3 replaces the RXSQL Program Offering (5798-DXT). 									
SQL/DS	5688-103 (EoS 4/26/97)	3.4.0 Withdrawn							
<p>Note: SQL/DS will not support mixed CP and CMS releases, as supported by VM/ESA.</p>									
SQL/DS for VSE & VM (DB2 for VSE & VM)	5688-103 (EoS 01/31/01)	3.5.0 Withdrawn 10/20/99	Exp XCExp	-	-	-	-	-	-
<p>Note: The Data Restore feature of SQL/DS for VSE & VM Version 3 Release 5.0 became generally available 1/26/96. The Simplified Chinese feature will be available 2/23/96.</p> <p>SQL/DS will not support mixed CP and CMS releases, as supported by VM/ESA.</p>									
<p>Note: STAIRS 1.1.x, EoS 6/30/90.</p>									

Table 1 (Page 52 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
STAIRS/CMS	5664-189 EoS 10/21/94	1.2.0 Withdrawn							
Note: STAIRS/CMS is replaced by SearchManager/370 (5684-143). See entry on page 52.									
STANDALONE DASD Dump	5799-DHL	1.1.0							
Note: Full name of the above is <i>STANDALONE DASD Dump/Restore</i> , PRPQ # P81048. This PRPQ provides standard DDR, equivalent to the DDR program which ships with VM/ESA R1.0 370 Feature, shipped on a 3.5 inch disk. This PRPQ requires a 9370, 9371, or a 9221 (370 mode) processor (there is NO charge for the PRPQ).									
Surfaces to Ani- mation	5799-DXP	1.1.0	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: The above is PRPQ # P81085.									
Note: TCP/IP Version 1 Release 1, 5798-FAL; EoS = 9/27/91. TCP/IP Version 1 replaced VM Interface Program for TCP/IP (5798-DRG). TCP/IP Version 2 Release 1, 5735-FAL; EoS = 6/30/92.									
TCP/IP	5735-FAL (EoS 4/24/98)	2.2.0 Withdrawn 12/16/94		-	-	-	-	-	-
TCP/IP	5735-FAL (EoS 10/30/99)	2.3.0 @ Withdrawn 12/31/97	Exp \$	-	-	-	-	-	-
Note: * Needs APAR PN34230 (- HIPER -) (see PTF UN35443 or UN35444) for the VM/ESA R2 environment. The VM Offload Feature, which reduces VM CPU load, is available with APAR PN35887 (5/07/93) and the IBM 3172-3 Interconnect Controller. To use the Offload Feature with a second level VM V=V or V=F see PTF UN42195 \$ TCP/IP V2 R3 must be at RSU 9503 or higher. @ TCP/IP V2 R3.0 and subsequent releases are VMSES/E enabled.									
TCP/IP	5735-FAL (EoS 1/31/01)	2.4.0 Withdrawn 11/12/99	Exp	-	-	-	-	-	-
TCP/IP	5654-030 * \$	FL310	-	-	-	-	-	-	-
TCP/IP	5654-030 * \$	FL320	Exp	-	-	-	-	-	-
Note: * As of VM/ESA V2 R3, TCP/IP is priced feature of VM/ESA. Refer to IBM announcement letter 298-083, dated March 24, 1998, for details. \$ As of March 31, 2000 the following features of TCP/IP FL310 and FL320 are withdrawn from marketing: Offload Feature 0892, Offload Preload Feature 0893. Service for these features ends 1/31/01.									
TCP/IP	Feature of 5654-A17 (EoS 12/31/05)	FL3A0 Withdrawn 8/27/04	-	Exp	-	-	-	-	-
Note: TCP/IP FL3A0 is a separately priced feature of z/VM. The TCP/IP feature FL3A0 will be withdrawn from marketing effective with the withdrawal from marketing of z/VM V3.1 on August 27, 2004.									

Table 1 (Page 53 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
TCP/IP	Base function of 5739-A03 (EoS 6/30/03)	FL410 Withdrawn 10/26/02	-	-	Exp	-	-	-	-
TCP/IP	Base function of 5739-A03 (EoS 12/30/03)	FL420 Withdrawn 5/31/02	-	-	-	Exp	-	-	-
TCP/IP	Base function of 5739-A03 (EoS 5/31/05)	FL430 Withdrawn 8/15/03	-	-	-	-	Exp	-	-
TCP/IP	Base function of 5739-A03 (EoS 9/30/06)	Level 440	-	-	-	-	-	Exp	-
Note: TCP/IP is part of the base z/VM V4 product. It is shipped with z/VM V4, pre-installed and enabled for customer use at no additional charge.									
TCP/IP	Base function of 5741-A05 (EoS 9/30/07)	Level 510	-	-	-	-	-	-	Exp
Note: TCP/IP is part of the base z/VM V5 product. It is shipped with z/VM V5, pre-installed and enabled for customer use at no additional charge.									
TeamKit/VM	5799-EYX	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: TeamKit/VM is PRPQ # P81212. It is available in the U.S.A. and Canada.									
Note: Terse/VM 1.9.05, PRPQ #P04277 (5764-050), was withdrawn from marketing as of 9/30/97 and ended service in 2Q98.									
TextTagger/ESA	5648-010 * (EoS 12/31/95)	1.1.0 Withdrawn 8/31/95	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: * See IBM Announcement letter 295-217 for information on a replacement product for TextTagger/ESA.									
Note: TIF Ver. 1 (5798-DLK) EoS 1/87. TIF Version 1 was withdrawn from marketing 1/31/93.									
TIF	5654-015 (EoS 1/31/01)	2.1.4 Withdrawn 11/30/99	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol	Tol XCTol
Note: TIRS BUILD 1.1.0, 5688-171; EoS - 3/31/92.									
TIRS BUILD	5688-171 (EoS 6/14/96)	1.2.0 Withdrawn 2/14/96	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: Full name for this product is: AD/Cycle -- The Integrated Reasoning Shell Builder/370.									
Note: TIRS RUN 1.1.0, 5688-170; EoS = 3/31/92.									
TIRS RUN	5688-170 (EoS 6/14/96)	1.2.0 Withdrawn 2/14/96	Exp	Exp	Exp	Exp	Exp	Exp	Exp
Note: TIRS = <i>The Integrated Reasoning Shell</i> . Full name for this product is: AD/Cycle -- The Integrated Reasoning Shell Runtime/370.									

Table 1 (Page 54 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
Tivoli ADSTAR Distributed Storage Manager (ADSM)	5697-VM3 (EoS 3/31/02)	3.1.0 Withdrawn 10/27/00	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Note: Tivoli ADSTAR Distributed Storage Manager is replaced by Tivoli Storage Manager, S/390 Edition, Version 3 Release 7, 5697-TSO .									
Tivoli Storage Manager, S/390 Edition	5697-TSO (EoS 3/31/02)	3.7.0 Withdrawn 10/27/00	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Tivoli Storage Manager, S/390 Edition	5697-TS9 (EoS 9/30/02)	4.1.0 Withdrawn 8/03/01	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Tivoli Storage Manager, S/390 Edition	5697-TS9 (EoS 4/8/06)	4.2.0 Withdrawn 3/07/05	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Note: * ... Tivoli Storage Manager function for VM is at the Tivoli Storage Manager V3.1.0 level. See IBM Announcement Letters 200-245 and 200-244, dated July 25, 2000, for additional information.									
5697-TS9, IBM Tivoli Storage Manager, S/390 Edition, V4.2, was replaced by 5698-ISM, IBM Tivoli Storage Manager, V5.2 or later, or 5698-ISX, IBM Tivoli Storage Manager Extended Edition, V5.2 or later but they have also been withdrawn. When running in a Linux guest environment, IBM recommends Tivoli Storage Manager, V5.3 (5608-ISM) or Tivoli Storage Manager Extended Edition, V5.3 (5608-ISX) for key data protection activities of backup, archive, recovery, space management, and disaster planning.									
Tivoli Storage Manager	5698-ISM	5.2.0 Withdrawn 8/12/03	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Note: When running in a Linux guest environment, IBM recommends Tivoli Storage Manager, V5.3 (5608-ISM) or Tivoli Storage Manager Extended Edition, V5.3 (5608-ISX) for key data protection activities of backup, archive, recovery, space management, and disaster planning.									
Tivoli Storage Manager, Extended Edition	5698-ISX	5.2.0 Withdrawn 8/12/03	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Note: For additional information on products 5608-ISM and 5608-ISX, see IBM Announcement Letter 204-024, dated February 24, 2004. When running in a Linux guest environment, IBM recommends Tivoli Storage Manager, V5.3 (5608-ISM) or Tivoli Storage Manager Extended Edition, V5.3 (5608-ISX) for key data protection activities of backup, archive, recovery, space management, and disaster planning.									
Tivoli Storage Manager Extended Edition for z/OS and z/VM V5.2	5698-A11	5.2.0 Withdrawn 1/21/05	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Note: When running in a Linux guest environment, IBM recommends Tivoli Storage Manager, V5.3 (5608-ISM) or Tivoli Storage Manager Extended Edition, V5.3 (5608-ISX) for key data protection activities of backup, archive, recovery, space management, and disaster planning.									

Table 1 (Page 55 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
Tivoli Storage Manager for z/OS and z/VM V5.2	5698-A13	5.2.0 Withdrawn 1/21/05	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
<p>Note: For additional information on products 5698-A11 and 5698-A13, see IBM Announcement Letter 203-203, dated August 12, 2003. When running in a Linux guest environment, IBM recommends Tivoli Storage Manager, V5.3 (5608-ISM) or Tivoli Storage Manager Extended Edition, V5.3 (5608-ISX) for key data protection activities of backup, archive, recovery, space management, and disaster planning.</p>									
<p>Note: TPNS 2.3.0, 5662-262; EoS 7/88. TPNS 2.4.0, 5662-262; EoS 10/31/92. TPNS 3.1.0, 5688-121; EoS 07/31/92. TPNS 3.2.0, 5688-121; EoS 10/31/93.</p>									
<p>Note: TPNS = <i>TeleProcessing Network Simulator</i>. Does not include support for the IBM 3705 communications controller.</p>									
TPNS	5688-121 (EoS 1/31/95)	3.3.0 Withdrawn 6/24/94							
TPNS	5688-121 (EoS 9/3/96)	3.4.0 Withdrawn 9/27/96	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
TPNS	5688-121	3.5.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: TQM Corporate PDB 1.1.0, 5764-052, was withdrawn from marketing as of 9/30/97 and ended service in 2Q98.</p>									
Translator Toolkit	5799-EPK	1.1.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
TSCF	5688-139 (EoS 6/24/96)	1.1.0	na	na	na	na	na	na	na
TSCF	5688-139 (EoS 4/24/98)	1.2.0	na	na	na	na	na	na	na
<p>Note: TSCF = <i>Target System Control Facility</i>. VM is supported as target system only -- host system must be on MVS.</p>									
<p>Note: The VALISYS family of products were withdrawn from marketing through the Software Vendor Marketing Program (SVMP) as of 4/1/97. Refer to IBM Announcement letter 997-035, dated February 11, 1997, for additional details.</p>									
VisualGen Host Services feature for VM	5648-078 \$ (EoS 9/30/01)	1.1.0 Withdrawn 6/26/98	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: \$ VisualGen Host Services feature for VM is replaced by VisualAge Generator for MVS, VSE and VM, 5648-B02. See entry on page 58.</p>									
<p>Note: VAST-2 1.1.0, 5798-RXQ; EoS = 06/29/90. VAST-2 1.2.0, 5798-RXQ; EoS = 10/02/92.</p>									
VAST-2	5798-RXQ (EoS 4/24/98)	1.2.1 Withdrawn 2/26/97	Exp	Exp	Exp	Exp	Exp	Exp	Exp
<p>Note: VAST-2 is a FORTRAN pre-compiler which helps in optimizing programs for vectorization and parallelization. Designed to compliment VS FORTRAN 2.5.0.</p>									

Table 1 (Page 56 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
VisualAge COBOL Millennium Language Extensions for MVS & VM	5654-MLE (EoS 4/21/06)	1.1.0 Withdrawn 9/06/00	Exp	Exp	Exp	Exp	Exp	Exp	Exp
VisualAge COBOL Millennium Language Extensions for OS/390 & VM	5648-MLE (EoS 9/30/02)	1.1.0 Withdrawn 9/05/01	Exp	Exp	Exp	Exp	Exp	Exp	Exp
VisualAge Generator Server for MVS, VSE and VM	5648-B02	1.2.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
Note: This product is a replacement for VisualGen Host Services feature for VM, 5648-078.									
VisualAge PL/I Millennium Language Extensions for MVS & VM	5648-MLX	1.1.0	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
Note: VM Batch Facility Version 1, 5664-364; EoS = 12/27/91.									
VM Batch Facility	5684-137 (EoS 9/2/94)	2.1.0							
VM Batch Facility	5684-137	2.2.0	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *	Tol XCTol *
Note: VM Batch Facility V2 R2 is VMSES/E enabled. VM Batch Facility V2 R2 co-reqs RSCS V2 R3 or V3 R1, ISPF V3 R2 and RACF V1 R9 to provide additional function. * GC05375/UG03810 provides 31 bit toleration.									
Note: VM Data Collector 1.0.0, 5798-DZF; EoS = 12/90. VM Data Collector will be withdrawn from marketing effective 7/05/94.									
Note: VM IPCS R5, 5748-SA1; EoS 12/88.									
VM PWSCF	5799-DHH	1.1.2 Withdrawn 3/31/98	\$	\$	\$	\$	\$	\$	\$
Note: PWSCF = <i>Personal Work-Station Communications Facility</i> . VM PWSCF is PRPQ # P81056. Service for the workstation function will be discontinued 04/18/92, superseded by VM PWSCS. \$ The host code has been integrated into CP in VM/ESA Release 1.1 and thus P81056 is not required on VM/ESA R1.1 and beyond.									
Note: VM PWSCS 1.0 , 5684-138; EoS = 6/30/92. VM PWSCS 1.1 , 5684-138; EoS = 9/30/93.									

Table 1 (Page 57 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
VM PWSCS	5684-138 (EoS 3/16/95)	1.2 Withdrawn 11/16/94	na	na	na	na	na	na	na
<p>Note: \$ VM PWSCF is used in conjunction with VM PWSCS for locally optimized VM-to-Workstation connections.</p> <p>PWSCS = <i>Programmable WorkStation Communication Services</i>.</p> <p>* APAR VM52836 is required for Micro Channel to Mainframe Channel support to VM/ESA 1.1. Supports CPI Communications over standard LAN protocols (TCP/IP, IPX/Novell, 802.2) for DOS, Windows, AIX PS/2 AIX V3, OS/2, and NetWare. Supports channel connectivity to VM/ESA and inter-operates with SNA LU6.2 connectivity to MVS/ESA and other SNA LU6.2 systems.</p>									
<p>Note: VM Timing Facility Monitors were withdrawn from the Software Vendor Marketing Program (SVMP) as of March 2000. Contact the software provider, MiraSoft, Inc., (617) 825-9121.</p>									
<p>Note:</p> <p>VM/DIRMAINT 1.2.0 5748-XE4 EoS: February 1990 VM/DIRMAINT 1.3.0 5748-XE4 EoS: September 1994 VM/DIRMAINT 1.4.0 5748-XE4 EoS: October 1996</p>									
VM/DIRMAINT	5748-XE4 \$ (EoS 12/31/05)	1.5.0 ** Withdrawn 8/27/04	Exp XCTol	Exp XCTol %	-	-	-	-	-
<p>Note:</p> <p>** VM/DIRMAINT R5 is only supported on VM/ESA V2 and z/VM V3.1. For older versions of VM, see VM/DIRMAIN T R4.</p> <p>\$ VM/DIRMAINT is VMSES/E enabled.</p> <p>% VM/DIRMAINT 1.5.0 requires PTF VM62609 for z/VM V3.1.</p> <p>DirMaint 1.5.0 will be withdrawn from marketing effective with the withdrawal of marketing of z/VM V3.1 on August 27, 2004. For DirMaint running on z/VM V4 and later, see page page 22.</p>									
<p>Note: VM/DSNX 1.2.0, 5684-009; EoS 6/90.</p>									
VM/DSNX	5684-009 (EoS 11/01/94)	1.3.0 Withdrawn 5/11/94 @							
<p>Note: * see APAR VM42629 (PTF UV52056) --- available now.</p> <p>@ VM DSNX will be withdrawn from marketing effective 5/01/94.</p>									
<p>Note: VM/ESA R2 FBA Limited Availability, 5799-EPE, PRPQ P81207, was withdrawn from availability with the general availability of VM/ESA V1 R2.2.</p>									
<p>Note: VM/IPF 2.1.0, 5664-318; EoS 12/88. VM/IPF 2.2.0, 5664-318; EoS 12/93.</p>									
VM/IPF	5664-318 (EoS 10/30/99)	2.3.0 Withdrawn 12/31/97							
<p>Note: * see APAR PL60470 (PTF UL90401) and also see Informational APAR II05439.</p> <p>For support of VM/ESA ESA Feature order the CMS Utilities Feature of the VM/ESA product.</p>									
<p>Note: VM/IS PF 1.5.1, 5664-283; EoS = 2/90. VM/IS PF 1.6.0, 5664-283; EoS = 10/30/92. VM/IS PF 5664-283 was withdrawn from marketing 12/27/91.</p>									
<p>Note: VM/ISF 1.1.0 and 1.2.0, 5664-376; EoS = 12/89.</p>									

Table 1 (Page 58 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
VM/RTM	5796-PNA (EoS 10/30/99)	1.1.8 Withdrawn % 12/31/97							
<p>Note: * APAR GC03762, PTF UG00219 -- available now.</p> <p>% see informational APARs II03117 and II04072.</p> <p>VM/RTM is superseded by RTM/ESA for the VM/ESA ESA Feature environment.</p>									
<p>Note: VM/SE Release 1.1, 5713-AAK; EoS = 11/88.</p> <p>SE = <i>Software Engineering</i>.</p>									
<p>Note: VM/SE Version 2 5706-200: EoS = 10/30/92.</p>									
<p>Note: VM/SE Work Station Extension Program, 1.1.0, 5799-DBN (PRPQ # P85107); WFM = 3/31/98, EoS = 12/30/90.</p>									
VM/VCNA	5735-RC5	1.0.0 Withdrawn							
<p>Note: VM/VCNA is used only in conjunction with OS/VS1 or VSE.</p> <p>VM/VCNA = <i>VM/VTAM Communication Network Applications</i> .</p>									
<p>Note: VM:Webgateway(TM), 5758-SLM, VM:Webgateway OfficeVision Interface, 5758-SLN, and VM:Backup(TM), 5758-SL2 were withdrawn from marketing through the Software Vendor Marketing Program (SVMP) as of March 2000. Software provider Sterling Software was acquired by Computer Associates Inc. as of April 2000. Contact Computer Associates Inc. at 800-225-5224 or 631-342-5224 or visit their website at http://www.ca.com for additional information.</p>									
<p>Note: VMBACKUP MS 1.5.1, 5664-291; EoS = 9/91.</p>									
<p>Note: VMMAP 1.1.4, 5664-191; EoS 4/89.</p>									
VMMAP	5664-191 (EoS 10/30/99)	1.1.5 Withdrawn 12/31/97							
<p>Note: * APAR GC02765, PTF UG00221 --- available now.</p> <p>% Since VMMAP does not run on the VM/ESA ESA Feature; the reporting function is provided by VM/PRF in the VM/ESA (ESA) environments. VM/PRF does not include VMMAP type graphics. Graphics can be had with VMPAF and VM/PRF. Limited graphics can also be displayed using RTM/ESA and HMF/VM.</p>									
VMPAF	5684-130	1.1.0							
VMPAF	5684-130	1.1.1							
VMPAF	5684-130	1.1.2							
VMPAF	5684-130	1.1.3	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *	Exp XCTol *
<p>Note: VMPAF = <i>VM/Performance Analysis Facility</i>.</p> <p>* Service required, call your normal IBM software service support number for service information.</p>									
<p>Note: VMPPF Version 1, 5664-179; EoS = 4/05/90.</p> <p>VMPPF Version 2 Release 1 and 2, 5684-090; EoS = 12/31/92.</p> <p>VMPPF Version 2 was withdrawn from marketing 8/19/92.</p>									
<p>Note: VMPPF 1.1.0, 5684-073; EoS = 2/23/92.</p>									
VMPRF	5684-073 (EoS 3/31/02)	1.2.0 Withdrawn 2/23/01	Exp *	Exp *	-	-	-	-	-

Table 1 (Page 59 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
VMPRF	5684-073 (EoS 12/31/05)	1.2.2 Withdrawn 8/27/04	Exp *	Exp *	-	-	-	-	-
<p>Note: * ... Apply latest service. See Information APAR II06339. VMPRF works with LE/370 (5688-198), it requires APAR VM59419 and LE/370 service at January 1995 level or later. VMPRF 1.2.2 will be withdrawn from marketing effective with the withdrawal of marketing of z/VM V3.1 on August 27, 2004.</p>									
<p>Note: Starting with z/VM Version 4, VMPRF is shipped as a priced feature of z/VM. See IBM Announcement letter 201-163, dated May 29, 2001, for complete details. See the PRF feature on page 45.</p>									
<p>Note: VMTAPE MS 1.4.1, 5664-292; EoS = 9/91.</p>									
<p>Note: VM3812 1.1.3, 5798-DTE; EoS = 12/92. VM3812 V1 was withdrawn from marketing 11/04/92.</p>									
VPCA	5785-GCL (EoS 12/31/94)	1.2.0							
<p>Note: Full name of the above is: <i>VTAM Protocol Conversion Application</i>. VPCA co-req's NetView DM (5684-017).</p>									
<p>Note: VS COBOL II 1.2.0, 5668-958, 5688-023, and 5688-022; EoS 12/89. VS COBOL II 1.3.x, 5668-958, 5688-023, and 5688-022; EoS 3/26/94 -- <i>VS COBOL II C & L (5688-023), VS COBOL II C, L, D (5668-958), and VS COBOL II Lib (5688-022)</i></p>									
VS COBOL II C & L	5688-023 (EoS 3/31/01)	1.4.0 Withdrawn 6/30/97	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
VS COBOL II C, L, D	5668-958 (EoS 3/31/01)	1.4.0 With- drawn	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
VS COBOL II Lib	5688-022 (EoS 3/31/01)	1.4.0 Withdrawn 6/30/97	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *	Exp *
<p>Note: VS COBOL II Release 4 contains cumulative service rolled into a maintenance release.</p> <p>* Release 4.0: see APAR PN33499 relating to VSAM file 31-bit support.</p>									
<p>Note: COBOL: The AD/Cycle COBOL/370 product is IBM's strategic COBOL product for the System/370 and System/390 platform.</p>									
<p>Note: VS FORTRAN 2.3.0, 5668-806; EoS 9/90. VS FORTRAN 2.4.0, 5668-806; EoS 6/92.</p>									
VS FORTRAN C, L, IAD	5668-806 (EoS 12/31/95)	2.5.0 @ Withdrawn 8/27/93	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *
VS FORTRAN C, L, IAD	5668-806	2.6.0	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *	Exp XCExp \$ % *
VS FORTRAN C & L	5688-087 (EoS 12/31/95)	2.5.0 @ Withdrawn 8/27/93	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %

Table 1 (Page 60 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 * *	V4.1 * %	V4.2 * %	V4.3 * *	V4.4	V5.1
VS FORTRAN C & L	5688-087	2.6.0	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %	Exp XCExp \$ %
<p>Note: VS FORTRAN Version 2 \$ Support of parallelism in VM/ESA requires <i>CMS Support for Parallel Fortran</i> (PRPQ #P81051, 5799-DGW). % Support of Extended Common allows dynamic allocation of multiple commons, each up to 2 Gigabytes. This was available 12/91 along with VM/ESA R1.1 support. Fortran applications using Extended Common can exploit VM Data Spaces. @ VS/FORTRAN Library Version 2 Release 5 Needs APAR PN24431 (PTF UN32858 or UN32859) for all VM environments.</p>									
Note: VS FORTRAN Comp/Lib 1.4.1, 5748-FO3; EoS = 7/26/91.									
Note: VS FORTRAN Interactive Debug (IAD) 1.2.x, 5668-903; WFM = 3/31/98, EoS = 7/26/91.									
Note: VS FORTRAN LIB 2.3.0, 5668-805; EoS 9/30/90. VS FORTRAN LIB 2.4.0, 5668-805; EoS 6/92.									
VS FORTRAN LIB	5668-805 (EoS 12/31/95)	2.5.0 @ Withdrawn 8/27/93	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %
VS FORTRAN LIB	5668-805	2.6.0	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %	Exp XCExp %
<p>Note: @ VS/FORTRAN Library Version 2 Release 5 Needs APAR PN24431 (PTF UN32858 or UN32859) for all VM environments. Also see APAR PN24241 (PTF UN26001). % Fortran applications using Extended Common can exploit VM Data Spaces.</p>									
Note: VS FORTRAN Library 1.4.1, 5748-LM3; WFM = 3/31/98, EoS = 7/26/91.									
Note: VS PASCAL 1.1.0, 5668-767; EoS 6/89.									
VS PASCAL	5668-767	1.2.0	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *	Tol *
Note: * APAR PL67868 (PTF UN23639) -- available now.									
VS PASCAL LIB	5668-717	1.2.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
VSE/VSAM	5746-AM2 (EoS 9/30/94)	1.4.x Withdrawn 12/18/92	-	-	-	-	-	-	-
<p>Note: VSE/VSAM Version 1 was withdrawn from marketing 12/18/92 For Maintenance related to VSE/VSAM on VM see Information APAR II05610 (last update 12/09/91). * VSE/VSAM Version 1 Release 4 recommended VM APAR - For the 370 Feature: VM45721 (GCS - UM17096) VM APAR - For the ESA Feature: VM45018 (GCS - UM17076)</p>									

Table 1 (Page 61 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
VSE/VSAM	5686-037 (EoS 1/31/01)	2.1.x	-	-	-	-	-	-	-
<p>Note: For installation see VM50912 and VM51032 (PTF UV90719) New Install Procedures. For Maintenance related to VSE/VSAM on VM see Information APAR II05610 (last update was 02/26/92).</p> <p>* Recommended Service:</p> <ul style="list-style-type: none"> Running on VM/ESA Release 1.0 (370 feature) <ul style="list-style-type: none"> VM45095 (CMS) VM48554 (CMS) VM50836 (CMS) VM45721 (GCS) VM48577 (GCS) 									
VSE/VSAM	5686-037 (EoS 1/31/01)	2.2.0	-	-	-	-	-	-	-
<p>Note: VSE/VSAM Version 2 Release 2.0 pre-reqs VM/ESA R2.1, R2.2 or VM/ESA V2 R1. VSE/VSAM V2 R2 is VMSES/E enabled.</p> <p>* When VSE/VSAM V2R2 is licensed, VSE/VSAM V2R1 may be ordered at no charge.</p>									
VSE/VSAM for VM	5686-081	6.1.0	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol	Exp XCTol
<p>Note: * When VSE/VSAM V2R2 is licensed, VSE/VSAM V2R1 may be ordered at no charge.</p>									
<p>Note: VTAM: see <i>ACF/VTAM</i> on pages 2 and 3.</p>									
<p>Note: WDSF/VM 1.1.0, 5684-122; EoS = 3/31/94. Full name is: <i>IBM Workstation Data Save Facility/VM</i> WDSF/VM was withdrawn from marketing 10/29/93.</p> <p>WDSF/VM is replaced by ADSTAR Distributed Storage Manager (5648-020).</p>									
WLFS/VM	5684-120 (EoS)	1.1.0 Withdrawn	-	-	-	-	-	-	-
WLFS/VM	5684-120 (EoS 12/17/94)	1.1.1 @ Withdrawn 8/17/94	-	-	-	-	-	-	-
<p>Note: WLFS/VM = <i>Workstation Local Area Network File Services/VM</i> WLFS/VM pre-reqs C/370 Library V2 (5688-188) @ WLSF/VM R1.1 is VMSES/E enabled.</p> <p>WLFS/VM NFS server and TCP/IP for VM NFS Feature CANNOT coexist on a single VM.</p>									
WOW Personal	5799-DQZ	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: WOW = <i>Window on the World</i>, PRPQ # P81076. For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)</p>									
WOW Public	5799-DRA	1.1.0	Tol	Tol	Tol	Tol	Tol	Tol	Tol
<p>Note: WOW = <i>Window on the World</i>, PRPQ # P81077. For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)</p>									
X.25 NPSI	5668-719	2.1.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
<p>Note: X.400 PROFS Connection 1.1.0, 5785-GCG; EoS = 12/31/91. X.400 PROFS Connection 1.2.0, 5785-GCG; EoS = 6/30/92.</p>									

Table 1 (Page 62 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
X.400 PROFS Connection	5785-GCG (EoS 9/1/95)	1.3.0 Withdrawn 3/03/95	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: X.400 PROFS Connection Release 3 replaced Release 2.									
XCOL	5799-EGZ	1.1.0 Withdrawn	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: XCOL = <i>Xedit Column Editing</i> , PRPQ # P81095. For TECHNICAL ASSISTANCE (USA only): 1-800-237-5511 (specify product CUA2001)									
XI	5685-005 (EoS 3/31/02)	1.2.0 Withdrawn 9/06/00	na	na	na	na	na	na	na
Note: XI = <i>X.25 SNA Interconnection</i> , Version 1 Release 2 runs on the 3725 controller. XI (5685-005 Version 1 and 5685-035 Version 2) doesn't run under VM; it runs under NCP on the controller, not on the VM host system.									
Note: XI 2.1.0, 5685-035; EoS = 12/31/91. XI 2.2.0, 5685-035; EoS = 12/31/92. XI 2.3.0, 5685-035; EoS = 12/31/93.									
Note: XI = <i>X.25 SNA Interconnection</i> ; Version 2 runs on the 3720 & 3745 controller.									
XI	5685-035 (EoS 10/5/04)	2.4.0 Withdrawn 9/03/03	na	na	na	na	na	na	na
XI	5685-035 (EoS 10/5/04)	2.4.1 Withdrawn 9/03/03	na	na	na	na	na	na	na
XI	5685-035	2.4.2	na	na	na	na	na	na	na
Note: 3172 ICP 1.0.0, 5601-400; EoS = 12/30/91. 3172 ICP Version 1 could be upgraded to Version 2. 3172 ICP Version 2 is past end of currency: - 3172 ICP 2.0.0, 5601-433; EoS = 08/28/92. - 3172 ICP 2.1.0, 5601-433; EoS = 12/27/92. - 3172 ICP 2.2.0, 5601-433; EoS = 03/25/93. 3172 ICP Version 2 5601-433 will be withdrawn from marketing 7/08/94. It is replaced by Version 3 5621-425. 3172 ICP 3.1.0, 5621-425; EoS = 03/31/94.									
3172 ICP	5621-425	3.2.0	na	na	na	na	na	na	na
3172 ICP	5621-425	3.3.0	na	na	na	na	na	na	na
3172 ICP	5621-425	3.4.0	na	na	na	na	na	na	na
3172 ICP	5621-425	3.5.0	na	na	na	na	na	na	na
Note: 3172 ICP supports TCP/IP and SNA protocols and is the control program for the IBM 3172 Controller Models 2 and 3. (Note: the 3172 model 2 controller is withdrawn from marketing, effective 7/08/94.) 3172 ICP V3 co-reqs either TCP/IP V2 for VM (5735-FAL) or ACF/VTAM V3 R4 (5664-280 or 5684-095). ICP = <i>Interconnect Controller Program</i> . 3172 ICP V3 R2 supports the ESCON and the FDDI features of the 3172-003 controller. ESCON w/ TCP/IP will require the appropriate upgrade to TCP/IP V2 R2.									
Note: 3270 PC FTP 1.0.0 and 1.1.0, 5664-281; EoS = 11/88.									

Table 1 (Page 63 of 63). LP's Migration Matrix -- VM/ESA and z/VM									
Product	Program Number	V.R.M	VM/ESA	z/VM					
			V2.4 * %	V3.1 *	V4.1 * %	V4.2 * %	V4.3 *	V4.4	V5.1
3270 PC FTP	5664-281 (EoS 9/24/04)	1.1.1 Withdrawn 9/24/04 @	Tol	Tol	Tol	Tol	Tol	Tol	Tol
Note: For PROFS installations of the above see GC02326.									
3270 PC FTP is shipped as a sample program in V5.1 with no support.									
4700 AMG	5668-934	1.3.1							
Note: AMG = Application Map Generator									
Note: 5210 Printer Support Version 1 5798-DTA; EoS = 4/30/89. Withdrawal from marketing is effective 7/05/94.									
Note: 6670 Use. Aids 1.1.3, 5798-DQF; Withdrawn 12/31/97, EoS 6/86.									
Note: 6670 Utils. Preprocessor 1.1.0, 5798-DKB; EoS = yes.									

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