

RELEASE 2.5 OF VM/SP HIGH PERFORMANCE OPTION CONTAINING EXTENDED STORAGE SUPPORT IS ANNOUNCED

o 5664-173

Contents

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Europe Middle East Africa - Last Revised on December 23, 1982

**Brief Description of Announcement, Charges, and Availability**

**Customer Letter Section**

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Support for greater than 16MB of real storage will be provided in VM/SP High Performance Option Release 2.5, available April, 1983.

This support requires VM/System Product Release 1.2 as a prerequisite and is in addition to the previously announced High Performance Option Release 3 which uses VM/SP Release 2 as a prerequisite. Extended storage support allows use of greater than 16MB of real storage by the VM Control Program (CP) on the IBM 308x and 3033 processor complexes.

VM/SP High Performance Option Release 2.5, with extended storage can provide significant performance benefits for customers with greater than 16MB of real storage.

- The potential to increase the number of users while maintaining equivalent response times.
- The potential to improve interactive response times for the current user load.
- The potential to decrease the need for high speed paging devices to achieve current performance levels.
- The potential to increase system throughput by productive use of processor cycles which were previously expended in paging overhead.

In addition to support for extended storage and all the functions currently available in VM/SP High Performance Option Release 2, Release 2.5 includes additional enhancements in the area of the scheduler and dispatcher. These improvements reduce the processing required to dispatch a user in large system environments and can make additional processing capability available for user work. The dispatching changes will use the segment protect extension to Virtual Machine Assist (VMA) and MP support available with VM/SP High Performance Option on the IBM 3081 processors. These enhancements will also be contained in VM/SP High Performance Option Release 3 which was previously announced for availability in April, 1983.

Availability: VM/SP High Performance Option Release 2.5 will be available in April, 1983 and will remain available until October, 1983. This is to allow customers the alternative of installing extended storage support on either a Release 1 or Release 2 VM/SP base, thus providing a more convenient migration plan for some customers.

## SPECIFIED OPERATING ENVIRONMENT

### Hardware Requirements

The VM/System Product High Performance Option is supported on the IBM System/370 Models 155II, 158, 158-3, 158AP, 158MP, 165II, 168, 168-3, 168AP, and 168MP; on the IBM 4341, 3031, 3031AP, 3032, 3033U, 3033N, 3033S, 3033AP, 3033AP-2, and 3033MP Processors; and the IBM 3081, and 3083 Processor Complexes in System/370 mode. Note: The use of real storage above 16MB by CP requires the following hardware features and system EC levels:

CPU	MODEL	Feature/EC
3033		6850 - Extensions feature
		3832 - Extended Addressing feature
		3868 - Extended Control Storage on each channel group
3033	with VMA	Extended Addressing Enhancement (available first quarter 1983) EC 209811
3081	D	EC 216114 - new frame EC 216465 - old frame
3081	K	EC 207215
3081	G	EC 212004
3083	J	EC 208296
3083	B	EC 212038
3083	E	EC 214331 or 214935X

### Real Storage Requirements

For a VM/SP system that is running VM/SP High Performance Option, a minimum of 1MB real storage is required. (Note: VM/SP High Performance Option does not support the small CP option for VM/System Product).

### Software Requirements

VM/System Product Release 1.2 is a prerequisite for VM/SP High Performance Option Release 2.5. VMAP Release 3.6 currently supports VM/SP High Performance Option Release 2.5. e IPCS PTF UV90029 is required for execution with VM/SP High Performance Option Release 2.5 dumps.

### Compatibility

Application programs that currently execute under the VM/System Product and are not dependent on internal CP or CMS structure and/or control blocks, should continue to run on the VM/System Product with VM/SP High Performance Option.

### Security, Auditability, and Control

Facilities designed to prevent unauthorized access of data are

provided by the VM/System Product (5664-167). User management is responsible for the selection, application, adequacy, and implementation of these features and for the appropriate application and administrative controls.

#### Education

The VM/SP educational offerings have been updated to reflect the facilities offered by VM/SP High Performance Option.

CHARGES: Consult your IBM Marketing Representative

#### Initial License Charge

Basic License

DSLO

#### Monthly Charge

Basic License

DSLO

#### Monthly Licensed Program Support Charge

#### Monthly Multiple Licensed Program Support Charge

#### PROGRAM SERVICES

Central Service, including the IBM Support Center for the Basic License will be available until discontinued by IBM upon twelve (12) months' written notice. Central Service, including the IBM Support Center, for DSLO licenses will only be provided through the customer location designated for the Basic License.

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#### TESTING PERIOD

o Basic License: 30 days

o DSLO: None

#### INSTALLATION LICENSE APPLIES: No.

A separate license is required for each designated machine on which the licensed program materials will be used except as otherwise provided by IBM.

#### WARRANTED

o Basic License: Yes, in accordance with the Agreement for IBM Licensed Programs.

o DSLO: Not Applicable

Machine Readable Material

VM/SP High Performance Option Starter System

The VM/SP High Performance Option starter system is a single volume tape. The first file is an IPLable VM/SP format/allocate program. The second file is an IPLable VM/SP DDR (DASD Dump/Restore) program. The third file is a DDR Dump of the VM/SP High

Performance Option Starter system. By IPLing the tape, you can restore a VM/SP High Performance Option starter system, then perform a VM/SP High Performance Option system generation using the VM/SP Release 1.2 and the VM/SP High Performance Option product tapes.

#### UNLICENSED DOCUMENTATION

GC19-6222 VM/SP High Performance Option Introduction

GC19-6229 VM/SP High Performance Option Terminal User's Guide

GC19-6221 VM/SP High Performance Option General Information  
Manual

GC20-1844 VM/SP High Performance Option Licensed Program  
Specifications

SC19-6223 VM/SP High Performance Option Planning and System  
Generation Guide

SC19-6225 VM/SP High Performance Option Operator's Guide

SC19-6224 VM/SP High Performance Option System Programmer's  
Guide

SC19-6226 VM/SP High Performance Option System Messages and  
Codes

SC19-6230 VM/SP High Performance Option OLTSEP & Error  
Recording Guide

SC19-6227 VM/SP High Performance Option CP Command Reference  
for General Users

GC19-6228 VM/SP High Performance Option Operating Systems in a  
Virtual Machine

SX22-0005 VM/SP High Performance Option Quick Guide for  
General Users

SX22-0003 VM/SP High Performance Option Commands (General  
Users) Reference Summary

SX22-0004 VM/SP High Performance Option Commands (Other than  
General Users) Reference Summary

VM/SP Release 1 Publications

ST19-6209 VM/SP CMS Command and Macro Reference

ST19-6210 VM/SP CMS User's Guide

ST24-5219 VM/SP EXEC 2 Reference  
SC24-5220 VM/SP System Product Editor User's Guide  
ST24-5221 VM/SP System Product Editor Command and Macro  
Reference  
ST00-0885 XEDIT Commands (Reference Summary)  
SX24-5123 XEDIT PF Key Overlay  
GC20-1843 VM/SP and Standalone Versions Input/Output  
Configuration Program User's Guide and Reference  
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