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VM/INTEGRATED SYSTEM (VM/IS)
RELEASE 4
VM/INTEGRATED SYSTEM BASE (VM/IS BASE) RELEASE 4
VM/REMOTE SYSTEM PROGRAMMING (VM/RSP) SUPPORT OFFERING
NEW GRADUATED CHARGES FOR VM/IS BASE
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Contents

Brief Description of Announcement, Charges, and Availability

VM/Integrated System (VM/IS) provides an integrated software solution for intermediate and low-end System/370 environments. It consists of VM/IS BASE and eight optional application packages containing 28 licensed programs. This combination, VM/IS BASE and optional packages, provides an integrated base for business, office, data base and engineering/scientific applications. Utilizing VM/IS results in an easy-to-install system preconfigured for selected IBM 4300 and 9370 processors and containing pre-applied software maintenance. System programming skills to support the VM/IS package are optionally available for a fee through the VM/Remote System Programming (VM/RSP) Support Offering.

VM/IS BASE is a licensed program that includes full VM/SP Release 4 functions. Previous restrictions, such as no guest support, have been removed. It provides an integrated set of system management and use functions designed to be administered by someone with little or no previous system support experience.

VM/Remote System Programming (VM/RSP) Support Offering provides support for the licensed programs available in VM/IS. The VM/RSP support offering is available for a fee to VM/IS customers with a requirement for VM system programming skills. IBM provides this expertise remotely through the VM/RSP Support Center.

VM/IS and VM/IS BASE replace the VM/SP End-User Software Support System (VM/SP ES(3)) and VM/SP-Entry. Migration aids are

provided to migrate from VM/SP ES(3) to the VM/IS environment.

In addition, VM/IS BASE provides function equivalent to VM/SP-System Base (5750-ES1) which is withdrawn from marketing effective November 21, 1986. (See Programming Announcement 286-424, dated October 7, 1986.)

IBM is also announcing new graduated charges for VM/IS BASE (5664-301). The Graduated One-time Charges (OTC) are based on the processor group of the designated machine. For additional information on graduated charges, refer to Programming Announcement 286-419, dated October 7, 1986.

VM/IS BASE Monthly License Charge: $2,275

VM/IS BASE Graduated Charges:

Processor Group	One-time Charges
10	$26,840
20	46,985
30	66,280
40	100,520

Planned Availability: November 1986

Planned Availability for IBM 9370 Processor Support: February 1987

Customer Letter Section

HIGHLIGHTS
VM/IS
o Easy-to-install, pre-configured system and 28 optional VM
   licensed programs
o VM/IS BASE:
   - Easy to install, learn and use
   - Selection of 4300 and 9370 processor configurations
   - Integrated system function
   - New primer library, alternate media and publications
   - Seven VM/IS BASE component functions enhanced
o Optional Packages
   - Eight optional packages available
   - Seven new products added to optional packages
   - Nine products up-leveled in optional packages
o Migration Aids For VM/SP ES(3) Release 2
o Programmable operator enabled

o   Accommodation of SNA support

o   Accommodation of Computer-Graphics Automated Design and
    Manufacturing (CADAM (R))

o   Accommodation of Application System (AS)

o   Application encouragement

o   VM/IS for the IBM 9373 processor

VM/RSP

o   IBM VM/RSP Support Center staffed by experienced professionals
    who provide VM system services

o   Single electronic toll free interface for VM/IS support

CADAM (R) is a registered trademark of CADAM (R) Inc.

DESCRIPTION

VM/IS

o   Easy to install, pre-configured system and 28 optional VM
    licensed programs

VM/Integrated System (VM/IS) is a software solution that provides
general business, office, data base and engineering/scientific
applications solutions. VM/IS is provided for selected 4300 and 9370
configurations. Application solutions are provided through eight
optional packages offered in an easy-to-install format. New or
enhanced capabilities in office automation, problem solving, program
development, network teleconferencing, data base management and
inter-product communication are provided in the optional packages.
Service is pre-applied to the individual products. VM/IS reduces the
skill level and effort required to install and use the system. A
systems administrator is able to install, migrate, operate and
administer VM/IS. Migration aids are provided to assist the customer
in migrating from VM/SP ES(3). VM/IS provides extensive, system
level, task oriented documentation.

NOTE: VM/SP End-User Software Support System (VM/SP ES(3)) Release 2
has been enhanced and renamed to VM/Integrated System Release 4. In
addition, VM/SP-Entry Release 2 has been enhanced and renamed to
VM/Integrated System BASE Release 4.

OUTLINE: The program functions and licensed programs in the VM/IS
software offering are described in the following outline. A chart
indicating the full names of the products within VM/IS is included in
the Product Name Abbreviations section at the end of this
announcement.

VM/IS BASE RELEASE 4 (5664-301)

o   CORE
    - System control
    - Hardware error recording

- Directory maintenance
- System administration
- End-user and application access menus
- Screen manager

o Performance monitor
o Performance reporting
o General language support routines
o Shared user files
o Background execution
o Graphics support
o Text formatter

PROBLEM SOLVING LANGUAGES
o BASIC/VM 2.0 (5668-996)
o Pascal/VS 2.2 (5796-PNQ)

NETWORKING SUPPORT
o RSCS 2.1.0 (5664-188)
o PVM 2.0 (5748-RC1)
o CVIEW 2.1.1 (5664-296)

APL LANGUAGE SUPPORT
o APL2 2.0 (5668-899)

ENGINEERING/SCIENTIFIC PROGRAM DEVELOPMENT SUPPORT
o ISPF/PDF 2.2.0 (5664-285)
o ACRITH 3.0 (5664-185)
o EML 2.0 (5799-BTB)
o GDQF 3.1 (5668-905)
o CU2 1.0 (5798-RWL)
o GASP 3.0 (5799-AXX)
o PL/I Resident Library 5.1 (5734-LM4) *
o VS FORTRAN 4.1 (5748-FO3)
o FORT UTIL 2.2 (5798-DFH)
o FORT IAD 2.0 (5668-903)

TEXT/OFFICE SUPPORT
o PROFS 2.2.0 (5664-309)
o DW/370 1.0 (5664-370)
o VM3812 1.1 (5798-DTE)
o HDDI 2.0 (5799-BKE)
o 6670 Pre P. 2.2 (5798-DKB)
o PL/I Resident Library 5.1 (5734-LM4) *

COMMUNICATION CONTROLLER SUPPORT
o EP/3705/25 2.0 (5735-XXB)
o ACF/SSP 3.1.0 (5664-289)

DATA BASE QUERY

o SQL/DS 3.5 (5748-XXJ)

o DB EDIT 1.1 (5798-DLL)

o PL/I Resident Library 5.1 (5734-LM4) *

INTELLIGENT WORKSTATION SUPPORT

o 3270 PC FT 1.0 (5664-281)

o PC BOND 2.0 (5664-298)

o VM/PC Host Server (5664-319)

* Only one copy of the PL/I Resident Library will be licensed.

VM/IS BASE

o Easy to install, learn and use

   The VM/IS BASE core is provided in a DASD Dump Restore (DDR)
   format. The remaining functions are provided in the stacked tape
   format. The system administrator restores the system from tape
   and then, using the VM/IS BASE functions provided, tailors it to
   the account's unique requirements using the system support
   facilities included.

     Multiple application access paths are provided, ranging from
task-oriented menus for infrequently performed functions or initial
learning, to a fast path for more experienced users. Also provided
is a full-screen editing capability, samples and examples and HELP
facilities.

o Selection of 4300 and 9370 processor configurations

      VM/IS BASE Release 4 is available in predefined I/O
   configurations for the 4300 processors with 3370/3380 DASD and
   9370 processors with 9332/9335 DASD. Users have the option of
   using one of these configurations or defining their own.

o Integrated system function

      VM/IS BASE Release 4 has been redefined to include all
   VM/SP Release 4 functions. All previous restrictions, such as no
   guest support, have been removed. Additionally, the group
   control system is enabled for RSCS and native SNA support, and
   the enhanced communication facility is included. This fully
   operational VM/IS BASE operating system includes the following
   system support facilities:
   - Hardware error recording
   - Directory maintenance
   - System administration
   - Screen manager
   - End-user and application access menus
   - Performance monitoring and reporting *
   - General language support routines *
   - Shared user files *

- Background execution *
- Graphics support *
- Text formatter. *
      * Only those functions ordered will be integrated and
shipped.
      The engineering/scientific enhancement included in
VM/SP-Entry Release 2 is now provided in the
engineering/scientific program development support optional
package.
o New primer library, additional media and application development
  publications
      New primers designed for a system administrator integrate
  the functions in VM/IS BASE. These task-oriented primers make it
  easy for a system administrator to plan, install and manage the
  system.
      A new practice diskette and optional videotape supplement
  the information in the Managing Your System primer.
      Several new publications are designed to facilitate
  application development by software vendors and others.
o Seven VM/IS BASE component functions enhanced
      Enhancements have been made to the following functions:
  System control, hardware error recording, system administration,
  end-user and application access menus, screen manager,
  performance monitor and performance reporting.
o Optional Packages
  - Eight optional packages are available
        Eight optional packages are offered with VM/IS BASE.
    These packages, provided in an easy-to-install format, can
    provide a fully functional set of capabilities for VM. Only
    those products ordered will be shipped.
        Text/Office Support (TXTO) has been expanded from
    previous releases. PROFS has been up-leveled to Version 2,

    DW/370 and 3812 Pageprinter support have been added. This
    optional package offers an integrated office and text
    environment. It provides improved product installation,
    navigation and data exchange for the IBM office/text
    products. A consistent user interface and product
    navigational menus are provided through the use of the
    end-user and application access menus function of VM/IS BASE.
    QPRINT is no longer included.
        Intelligent Workstation Support (IWS) provides support

for many different models of the IBM Personal Computer. A current PC user can take advantage of the features of a VM host system without having to learn VM/SP. A current VM/IS BASE user can use the PC in standard PC-mode, as a stand-alone VM/CMS system (XT/370 or AT/370 only), or as a VM/CMS terminal. The user can also transfer files between the PC terminal and a VM system, and communicate with other PC users. The appropriate IBM Personal Computer terminals and complementary software on the IBM Personal Computer are required.

Engineering/Scientific Program Development Support (E/SPDS) aids the engineer and scientist in developing programs and creating two- and three-dimensional graphics. PANEL2 has been replaced by Composition Utility Version 2, which provides enhanced graphics capability. The PL/I Resident Library has also been added in support of Composition Utility Version 2.

Database Query (DBQ) allows the customer to create and manage a relational database. The addition of DB EDIT to this package provides the capability to enter and update SQL data in full-screen mode. The PL/I Resident Library has been added in support of DB EDIT.

APL Language Support (ALS), with APL2 replacing VS APL and GRAPHPAK/FSI, now provides added versatility in problem solving, data analysis, charting, system design and application development. APL2 also provides an easy-to-use interface to SQL/DS to transfer relational data into APL2 work spaces. Navigational dialogs are provided to guide the user to the APL2 function.

Problem Solving Languages (PSL) offers the BASIC and PASCAL programming languages for solving everyday business problems.

Networking Support (NTWK) adds computer network support for sending and receiving information between sites, logging on to remote systems and establishing teleconferencing sessions with other users. RSCS has been up-leveled to Version 2, and CVIEW has been added to this package. CVIEW provides computer teleconferencing capability, with the ability to connect up to 12 users in a conference session or two users in a consulting session.

Communication Controller Support (COM) provides VM support for the IBM 3705 and 3725 Communication Controllers.

Support for both 3705 and 3725 is provided, although the two features are mutually exclusive and cannot be used concurrently.

o   Seven new products added to optional packages

The following products have been added to the VM/IS optional packages: APL2, Composition Utility Version 2, CVIEW, DB EDIT, DisplayWrite/370, PL/I Resident Library and VM3812.

o   Nine products up-leveled in optional packages

A new version of PROFS and RSCS has been included.

The following products have been up-leveled to a new release: ACRITH, GDQF, IBM BASIC/VM, ISPF/PDF, SQL/DS, 3277 Graphics Attachment Support Program (GASP) and EP3705/25.

o   Migration Aids for VM/SP ES(3) Release 2

These aids are provided to assist customers in upgrading from VM/SP ES(3) Release 2. The aids will retain in the customer's new system any products no longer offered in VM/IS Release 4. The migration EXECs will retain all non-VM/SP ES(3) customer files and data.

NOTE: Migration aids are not provided for earlier releases of VM/SP-Entry, E/S(3), E/S(3)-Entry, or cross-DASD.

o   Programmable Operator Enabled

Assistance is provided to customers wishing to take advantage of programmable operator function of VM/IS BASE. A sample routing table and action routine is provided. This facility assists unattended operations by classifying operations messages (filtering, routing, etc.). An audit trail is provided.

The use of the sample routine and routing table is described in the Managing Your System primer.

o   Accommodation of SNA Support

The installation of ACF/VTAM 3.1.1, NetView 1.1.0 and VSE/VSAM 1.3.0 is enabled via SNT and directory entries in the VM/IS BASE system. This reduces installation tasks for customers who want enhanced communication facilities.

o   Accommodation of Computer-Graphics Automated Design and Manufacturing (CADAM (R))

The installation of Computer-Graphics Automated Design and Manufacturing, CADAM (R), is enabled via SNT entries. This reduces installation tasks for customers who want interactive design facilities.

o   Accommodation of Application System (AS)

The installation of AS (5767-001) Release 4.0 is enabled via the SNT and directory entries. This reduces installation

tasks for customers who want to add decision making and statistical analysis facilities.

o   Application Encouragement

VM/IS provides a base to add additional applications, users and system resources, and still retain the same end-user interfaces. These applications may be the optional packages included with VM/IS, or any product which can execute on VM/SP Release 4.

VM/IS also provides the capability for independent software developers and other customers to develop programs which easily interface to VM/IS. The following publications are available to assist in developing applications, customizing the system menus and writing application documentation:

- VM/IS Guide to Tailoring the Productivity Facility (SH24-5123)
- Road Map to the Application Development Information (SC24-5342)
- Application Packaging Guidelines (SC24-5122)
- Application Design Guidelines: User Documentation (SC24-5301).

Any product that executes on VM/SP Release 4 will execute on VM/IS Release 4. However, one may require system programmer assistance to install, maintain or administer these additional products.

Some of the products successfully tested in VM/IS include:

- Storage and Information Retrieval System (STAIRS) (5664-189)
- PROFS Note Maintenance Facility (5798-DRT)
- PROFS PC Support feature for Version 2 (5664-309).

o   VM/IS for the IBM 9373 Processor

For 9373 configurations with only two 9332 spindles (four actuators), a customer may install the following packages from VM/IS:

- VM/IS BASE
- PSL, ALS, IWS and NTWK Optional Packages
- Any one of the following:
  -- DBQ Optional Package
  -- E/SPDS and COM Optional Packages
  -- TXTO Optional Package.

The minimum 9373 hardware configuration contains a single 9332 spindle (two actuators). The VM/IS subset available to run in this minimum environment is:

- VM/IS BASE core functions

- -- System control
- -- Hardware error recording
- -- Directory maintenance
- -- System administration
- -- Screen manager
- -- End-user and application access menus
- - NTWK optional package
  - -- RSCS 2.1.0 (5664-188)
  - -- PVM 2.0 (5748-RC1)
  - -- CVIEW 2.1.1 (5664-296)
- - Either the Text/Office Support or E/S Program Development Support (Subset)
  - -- Text/Office Support (Subset)
    - o PROFS 2.2.0 (5664-309)
    - o DW/370 1.1.0 (5664-370)
  - -- E/S Program Development Support (Subset)
    - o ISPF/PDF 2.2.0 (5664-285)
    - o ACRITH 1.3.0 (5664-185)
    - o EML 1.2.0 (5799-BTB)
    - o FORTRAN 1.4.1 (5748-FO3)
    - o FORT UTIL 1.2.2 (5798-DFH)
    - o FORT IAD 1.2.0 (5668-903)
    - o Graphics Support function of VM/IS BASE.

The minimum 9373 system is configured with DASD file allocations to support four to eight concurrent users.

VM/RSP

o IBM VM/RSP Support Center staffed by experienced professionals who provide VM system services

IBM VM/RSP Support Center is staffed by experienced professionals who provide the customer system administrator with the skills necessary to support VM/IS as packaged and delivered by IBM.

At the customer's request, for an additional IBM hourly charge, the VM/RSP Support Center will provide the above support for IBM developed and marketed software supported by VM/IS BASE, but not included in the VM/IS family of products. Support is not provided for guest operating systems or programs operating under a guest operating system.

o Single electronic toll free interface for VM/IS support

The VM/RSP Support Offering provides a VM/RSP Support Center to serve as a single point of contact for both defect and usage related questions on the IBM licensed programs included in VM/IS (see outline in the Description section). The VM/RSP

Support Center services are provided via the following communication facilities:

- A communications link controlled by Remote Spooling Communications Subsystem (RSCS) between the customer's IBM system and the VM/RSP Support Center for transmitting questions or problem information as well as returning responses and fixes.

- A communications link controlled by VM/Pass-Through facility (PVM) between the customer's IBM system and the VM/RSP Support Center for performing activities normally provided by the customer to IBM support personnel. This includes gathering problem data, performing problem source identification and applying corrective fixes.

- Use of the Remote Operator Console Facility (ROCF) from the VM/RSP Support Center to assist with problem determination, problem source identification and for diagnosing and operating the system when the customer is unable to IPL the system or establish communications via RSCS.

The Cooperative Viewing Facility (CVIEW), a licensed program available in the Networking Support Package, allows the VM/RSP customer to follow along while a VM/RSP Support Center representative is logged on to the customer's system to collect additional problem information or apply corrective fixes. The support center may also observe, if necessary, while the customer performs system administration tasks.

Data gathering, analysis and tuning assistance for system performance problems is also provided by the VM/RSP Support Center.

For additional information, see the VM/RSP Support Offering, Programming Announcement 286-055, dated February 11, 1986.

PUBLICATIONS

VM/IS

A complete library of publications for VM/IS is automatically shipped with the VM/IS order. Specially designed boxes and labels enable the customer to easily manage and store the publications. Additional sets of publications or individual publications can be ordered separately, for a fee.

The following publications are available:

o Planning Purposes:
- VM/IS General Information (GH24-5119)
- Planning for Your System Primer (SC24-5337)
    This primer will be most useful prior to system

delivery. While a copy will be included with the
publications shipment, it is recommended that the customer
request a separate copy for early delivery.

o   Application developers (including software vendors):
  -   Road Map to the Application Development Information
      (SC24-5342)
  -   Application Design Guidelines: User Documentation (SC24-5301)
    Managing Your System: The Practice Diskette is automatically
shipped with the VM/IS order; however, the Managing Your System
videotape must be ordered separately.

o   VM/IS Primers
  -   Planning for Your System (SC24-5337)
  -   Installing Your System (SC24-5341)
  -   Managing Your System (SC24-5338)
  -   Reporting System Problems (SC24-5339)
  -   Learning to Use:
        Getting Started (SC24-5343)
        Working with FORTRAN and Advanced Graphics (SC24-5344)
        Working with IBM BASIC and Pascal/VS (SC24-5345)
        Performing Office Tasks (SC24-5346)
        Working with APL2 (SC24-5347)
        Working with a Data Base (SC24-5348)
        Using Your IBM Personal Computer as a Display Station
        (SC24-5349)
        Communicating with other VM Systems (SC24-5350)
        Error and Information Messages (SC24-5351)
        A Day in the Life of an Engineering Firm (SC24-5352)

ADDITIONAL MEDIA
o   Managing Your System (videotape, 3/4-inch U-MATIC) (SV26-1012)
o   Managing Your System (videotape, 1/2-inch VHS) (SV26-1013)
o   Managing Your System (videotape, 1/2-inch Beta) (SV26-1014)
o   Managing Your System: The Practice Diskette (SV21-5273)

APPLICATION DEVELOPMENT PUBLICATIONS
o   Road Map to the Application Development Information (SC24-5342)
o   Application Design Guidelines: User Documentation (SC24-5301)
o   Application Packaging Guidelines (SH24-5122)

OTHER PUBLICATIONS
o   VM/IS General Information (GH24-5119)
o   VM/IS Guide to Tailoring the Productivity Facility (SH24-5123)

VM/RSP
The following publication is shipped upon receipt of the customer's
order: VM/RSP Support Offering Installation Guide (SC24-5283-1).

Additional copies of this publication will be available for a fee from Mechanicsburg.

DISTRIBUTION OF VM/IS PUBLICATIONS

The library of publications for VM/IS is divided into four kits. Each kit contains books organized for a specific task and audience. Customers will automatically receive a primer kit, user kit, administration kit and technical kit for those functions in the base and products in the optional packages they have ordered.

Additional publications can be ordered individually by form number or complete kits can be ordered by kit number from Mechanicsburg, for a fee. Delivery time for kits is the same as that for individual books.

PRIMER KIT FOR VM/IS (SK2T-0882): This kit contains the publications written specifically to teach new users and system administrators how to use VM/IS. These books are written in an easy-to-follow manner, designed to give new users and administrators all the information they need to learn and use the system.

USER KIT: This kit contains more detailed user publications for the functions and optional products of VM/IS. This kit includes those publications referenced in the Learning To Use primers. See the list that follows for the user kit order numbers.

ADMINISTRATION KIT: This kit contains the more detailed administration publications for the functions and optional packages of VM/IS. This kit includes the publications referenced in the Planning for Your System, Managing Your System, and Reporting System Problems primers. See the list that follows for the administration kit order numbers.

TECHNICAL KIT: This kit contains information designed for a technical audience. These publications are packaged to provide a technical library for those customers and vendors writing

applications and requiring system programmer level detail. See the list that follows for the technical kit order numbers.

SOFTWARE VENDOR KIT (SK2T-0923): This kit is designed as a library containing the publications necessary to guide potential VM/IS application writers to the appropriate technical information. This kit ships with VM/IS as part of the technical kit but it can also be ordered separately by kit number.

BOIS INFORMATION: A listing of the publications contained within each kit can be obtained by keying in the kit reference number (SK2T-xxxx, where 'xxxx' is the last four digits of the kit number) keyword on the BOIS information panel.

NOTE: The quantities given for publications within kits is only an approximation.

KITS FOR VM/IS BASE CORE FUNCTIONS

PRIMER KIT:

o   SK2T-0882 (16) VM/IS Primer Kit

USER KIT:

o   SK2T-0883 (7) User Kit for VM/IS BASE Core Functions

ADMINISTRATION KIT:

o   SK2T-0884 (16) Administration Kit for VM/IS BASE Core Functions

TECHNICAL KIT:

o   SK2T-0885 (13) Technical Kit for VM/IS BASE Core Functions

o   SK2T-0923 (5) Application Development Information Kit

KITS FOR VM/IS BASE ADDITIONAL FUNCTIONS

OPTIONAL FUNCTIONS:

o   Performance Monitor, Performance Reporting, Background Execution, Shared User Files, and General Language Support Routines

  -   SK2T-0887 (2) Administration Kit for VM/IS BASE Additional Functions

  -   SK2T-0888 (2) Technical Kit for VM/IS BASE Additional Functions

o   Graphics Support

  -   SK2T-0889 (3) GDDM/PGF User Kit

  -   SK2T-0890 (2) GDDM/PGF Administration Kit

  -   SK2T-0891 (5) GDDM/PGF Technical Kit

o   Text Formatter

  -   SK2T-0892 (1) DCF/FEF User Kit

  -   SK2T-0893 (2) DCF/FEF Administration Kit

  -   SK2T-0894 (3) DCF/FEF Technical Kit

KITS FOR OPTIONAL PACKAGES

E/SPDS PACKAGE

o   GASP, GDQF, ISPF/PDF, ACRITH, EML, and COMP UTI Products:

  -   SK2T-0895 (3) User Kit for E/SPDS

  -   SK2T-0896 (3) Administration Kit for E/SPDS

  -   SK2T-0897 (6) Technical Kit for E/SPDS

o   FORTRAN

  -   SK2T-0898 (2) FORTRAN Administration Kit

  -   SK2T-0899 (4) FORTRAN Technical Kit

TXTO PACKAGE

o   PROFS

  -   SK2T-0914 (3) User Kit for PROFS

  -   SK2T-0915 (1) Administration Kit for PROFS

  -   SK2T-0916 (2) Technical Kit for PROFS

o 6670PP, HDDI, DW/370, VM3812
   - SK2T-0920 (5) User Kit for TXTO
   - SK2T-0921 (4) Administration Kit for TXTO
   - SK2T-0922 (2) Technical Kit for TXTO

PSL PACKAGE

o SK2T-0900 (1) User Kit for PSL
o SK2T-0901 (4) Administration Kit for PSL
o SK2T-0902 (6) Technical Kit for PSL

ALS PACKAGE

o SK2T-0903 (1) User Kit for ALS
o SK2T-0904 (4) Administration Kit for ALS
o SK2T-0905 (8) Technical Kit for ALS

IWS PACKAGE

o SK2T-0906 (3) Technical Kit for IWS

DBQ PACKAGE

o SK2T-0907 (4) User Kit for DBQ
o SK2T-0908 (3) Administration Kit for DBQ
o SK2T-0909 (8) Technical Kit for DBQ

NTWK PACKAGE

o SK2T-0910 (3) User Kit for NTWK
o SK2T-0911 (1) Administration Kit for NTWK

COM PACKAGE

o SK2T-0913 (4) Administration Kit for COM

EDUCATIONAL SUPPORT

For the system administrator, task-oriented instructional
materials are provided with this product via the new library, the
Managing Your System practice diskette and the optional Managing Your
System videotape.

For the system programmer, the standard VM/SP curriculum is
recommended. See the Catalog of IBM Education (G320-1244) for course
descriptions.

SCHEDULE

Planned availability is November 1986. Planned availability
for VM/IS support of 9373, 9375, and 9377 is February 1987. Orders
will be scheduled for the availability date unless a later date is
specified.

The next release of VM/IS will be available approximately six
months after Release 4, in keeping with the refresh philosophy for
service and product upgrades. The next release of VM/IS will be
updated to include the function of VM/SP Release 5, GDDM/VM Version 2
and GDDM-PGF Version 2.

TECHNICAL INFORMATION

SPECIFIED OPERATING ENVIRONMENT

HARDWARE REQUIREMENTS

VM/IS: VM/IS BASE is delivered for IBM 3370 Model 1 or 3380 single density DASD on suitably configured IBM 4300 systems and for IBM 9332 or 9335 DASD on suitably configured IBM 9370 systems.

Predefined I/O configurations are shipped for use on typical IBM 4300 and 9370 processors. Customers have the option of using one of these configurations or defining their own.

The 3370 Model 2 and the 3380 Model E double density DASD may also be used. Instructions are provided on how to take advantage of the increased space available with the 3370 Model 2 and the 3380 Model E double density DASD.

VM/IS BASE Release 4 requires the following minimum hardware:

o An IBM 4331, 4341, 4361, 4381, 9373, 9375, or 9377
o Four megabytes of real storage
o An IBM 3410/11, 3420, 3430, 3480, 8809, or 9347 Tape Drive
o A system console
o An additional terminal
o A printer
o One of the following DASD:
   - Two actuators for 3370 or 3380
   - Two actuators for 9335
   - Three actuators for 9332
   - Two 9332 actuators for the minimum 9373 software deliverable
o Additional DASD Requirements:
   - For Optional Packages:
      -- Two actuators for 3370, 3380, or 9335
      -- Three actuators for 9332
   - For the VM/IS BASE source code:
      -- One actuator
   - For additional system and user space:
      -- Two actuators suggested

To install VM/IS BASE a system console is required at address 010, 01F, or 009.

One of the following DASD configurations is also required:
   - 3370 DASD -- Addresses ranges 100-107, 110-117, 120-127, 130-137, 220-227, or 230-237
   - 3380 DASD -- Addresses ranges 140-14F, 150-15F, 160-16F, 170-17F, 1A0-1AF, 260-26F, or 2D0-2DF
   - 9332 or 9335 DASD -- Addresses ranges C00-C07, C10-C17, C20-C27, C30-C37, C40-C47, C50-C57, C60-C67, D00-D07, D10-D17, D20-D27, D30-D37, D40-D47, D50-D57, D60-D67,

E00-E07, E10-E17, E20-E27, E30-E37, E40-E47, E50-E57, E60-E67, F00-F07, F10-F17, F20-F27, F30-F37, F40-F47, F50-F57, or F60-F67.

The hardware requirements for the licensed programs within the optional packages are described in the individual programming announcements for those programs.

VM/RSP: The VM/RSP Support Offering is available for the IBM 4331, 4341, 4361, 4381 uniprocessors and the 9373, 9375 and 9377 processors when operating the VM/Integrated System. The Remote Operator Console Facility (ROCF) feature and appropriate modem, data phone, telephone line and modem jacks for ROCF are required depending on processor type.

In addition, to support the RSCS and VM/Pass-Through connections, the customer must provide:

o One 4800 BPS switched line communications port on the Integrated Communications Adapter (ICA) or on a 3705/3725 Communications Controller

o One 3864 Model 2 Modem

o One Armiger AA-2503-9C Data Phone or equivalent for touch tone service or one Armiger AA-503-9C Data Phone or equivalent for rotary dial service

o One normal telephone line.

SOFTWARE REQUIREMENTS

VM/IS BASE: This licensed program (VM/IS BASE) with its prerequisite system control program (VM/370) and EREP (the hardware error recording function) is an operational interactive operating system. The prerequisite SCP and EREP are not part of the VM/IS BASE licensed program, but are merged into the pre-generated VM/IS BASE system. All references to VM/IS BASE include both the licensed program, its prerequisite SCP and EREP, unless specifically indicated otherwise.

RSCS Version 2 is required for printer support for the 9373 processor configuration.

VM/RSP: The minimum software requirements for the VM/RSP Support Offering are:

o VM/IS BASE 1.4.0 (5664-301)

o RSCS 2.1.0 (5664-188)

o PVM 1.2.0 (5748-RC1)

o EP3705/25 1.2.0 (5735-XXB) (Note)

o ACF/SSP 3.1.0 (5664-289) (Note).

NOTE: Required for systems without an ICA.

COMPATIBILITY: The software offerings which comprise VM/IS use only

existing external interfaces.

VM/IS OPTIONAL PACKAGES: The individual component licensed programs contained in the optional packages of VM/IS are upwardly compatible with those in the previous packages with the following exceptions:

o   Composition Utility Version 2 in engineering/scientific program development support is not compatible with PANEL2. Customers must convert existing PANEL2 applications and data bases to Composition Utility Version 2 format.

o   APL2 work spaces are not compatible with VS APL workspaces. Existing VS APL customers may choose either to retain VS APL or migrate to APL2. Conversion aids are available in APL2 that assist in converting existing VS APL workspaces to APL2 workspaces. The process of converting to APL2 is documented by the migration process. In addition, the migration process will allow current applications in VS APL to remain operational while converting to APL2.

PREREQUISITES:

VM/IS: The version, release and modification levels of the products in this release have the following dependencies:

o   ACRITH requires VS FORTRAN and the screen manager function of VM/IS BASE. ACRITH also utilizes some facilities of ISPF/PDF.

o   Some functions of APL2 require the graphics support function of VM/IS BASE. Use of the SQL AUX processor requires SQL/DS.

o   Composition Utility Version 2 requires the graphics support and general language support routines functions of VM/IS BASE. Composition Utility Version 2 also requires the PL/I Resident Library at run-time.

o   DB EDIT requires SQL/DS and the graphics support function of VM/IS BASE. DB EDIT also requires the PL/I Resident Library at run-time.

o   EML requires VS FORTRAN.

o   EP/3705/25 requires ACF/SSP.

o   FORTRAN IAD requires VS FORTRAN and also utilizes some facilities of ISPF/PDF.

o   FORTRAN Utilities requires VS FORTRAN.

o   GASP requires VS FORTRAN.

o   GDQF requires the graphics support function of VM/IS BASE. GDQF also utilizes some facilities of ISPF/PDF.

o   HDDI requires the text formatter and general language support routines functions of VM/IS BASE. HDDI also utilizes some facilities of PROFS.

o   ISPF/PDF requires the screen manager function of VM/IS BASE.

- o PL/I Resident Library requires the general language support routines function of VM/IS BASE.
- o PROFS utilizes some facilities of the screen manager and text formatter functions of VM/IS BASE. Some routines of PROFS utilize RSCS and DW/370.
- o The Performance reporting function of VM/IS BASE requires the general language support routines of VM/IS BASE.
- o 6670 Preprocessor requires the text formatter function of VM/IS BASE. 6670 Preprocessor also requires PL/I Resident Library for maintenance purposes and utilizes some facilities of RSCS and the general language support routines function of VM/IS BASE.
- o VM3812 utilizes some facilities of the graphics support and text formatter functions of VM/IS BASE.
- o VS FORTRAN utilizes some facilities of ISPF/PDF.

   The product dependencies for the Intelligent Workstation Support (IWS) package remain unchanged from those in VM/SP ES(3) Release 2. Refer to Product Announcement 286-053, dated February 11, 1986, for additional information.

VM/RSP: The VM/IS BASE, RSCS and PVM products, and the VM/RSP support for those products, is the minimum required.

LIMITATIONS: The VM/RSP Support Offering is only available for customers of VM/Integrated System.

PERFORMANCE CONSIDERATIONS: There are no unique performance considerations.

PLANNING INFORMATION

CUSTOMER RESPONSIBILITY:

VM/IS:

- o The customer must provide at least the minimum hardware configuration with appropriate addresses in which the software offerings in VM/IS will operate.
- o The customer is responsible for assigning and training personnel to administer the VM/IS system.

VM/RSP:

- o The customer is responsible for the following:
   - - Non-IBM hardware and software installed on the customer's IBM system
   - - Moving customer data and non-VM/IS programs when necessary in preparation for release-to-release migrations
   - - Providing the VM/RSP Support Center remote access to the facilities required to perform their responsibilities
   - - Providing all modems and communication ports required at the customer's site in support of the RSCS, VM/Pass-Through and

ROCF interfaces to the VM/RSP Support Center

- Signing the appropriate IBM hardware, software, service and support agreements
- Reporting all problems by sending a PCF (Problem Control Facility component of VM/IPF) record via the RSCS link to the VM/RSP Support Center
- Performing all tasks required by the customer for system security and system backup
- Providing a telephone number of an administrator who will be the customer's primary interface to the VM/RSP Support Center. This phone number should be included in all PCF records.
- Ensuring that the designated system administrator has the appropriate skills/education to do the following:
    -- Use and administer the programs installed on the customer's IBM system
    -- Provide proper security for the system
    -- Backup and restore the system as required
    -- Set up communications interfaces for the VM/RSP Support Offering
- Assigning the following tasks to a designated system administrator:
    -- Perform the installation tasks assigned
    -- Assist in the installation of system refreshes, service update tapes, or corrective service as recommended by the VM/RSP Support Center
    -- Assist in problem data collection activities as requested by the VM/RSP Support Center
    -- Authorize or restrict access to customer data by the VM/RSP Support Center as appropriate
    -- Answer user questions and act as the focal point for end users and the VM/RSP Support Center for problem reporting and resolution.

INSTALLABILITY: There are no special considerations regarding installation.

PACKAGING: The VM/IS BASE core (VM/SP, hardware error recording, directory maintenance, system administration, screen manager, and end-user and application access menus) is provided in a DASD Dump Restore (DDR) format. The remaining functions are provided in the stacked tape format (VMFPLC2). Only those functions ordered will be shipped to the customer.

   The VM/IS optional packages will be shipped in stacked-program

tapes in an easily installable format. Only those products ordered will be shipped to the customer.

A complete library of publications is automatically shipped with the order. Specially designed boxes and labels enable the customer to easily manage and store the publications.

SECURITY, AUDITABILITY, AND CONTROL

The software offerings which comprise VM/IS use the security and auditability features of VM/SP Release 4.

User management is responsible for the evaluation, selection, application, adequacy and implementation of these features and for appropriate application and administrative controls.

If sensitive data is sent over external communication facilities, user management may wish to pursue the application of

cryptography.

The following statements apply when the customer is using the facilities of the VM/RSP Support Center:

1. Customers remain solely responsible for the control of access to and the protection of the confidentiality of data and the confidential data of others in their possession. Customers are responsible for withholding from IBM any information for the purposes of data confidentiality or privacy.

2. Although IBM will take normal precautions with any customer data it receives, no data provided by the customer will be treated as confidential and no liability shall accrue to IBM by reason of any receipt, use or divulging of any such information.

ORDERING INFORMATION

VM/IS

CURRENT LICENSEES: There is a no-charge migration feature for VM/SP ES(3) Release 2. Current customers may order this feature through their IBM marketing representative. The customer will receive the migration aids (EXECs, instructions, etc.) and an updated system corresponding to the order.

This release may be ordered immediately. Current users or unfilled orders of VM/SP-Entry or VM/SP-System Base (5750-ES1) must use the MES procedure to place a Release 4 order for VM/IS BASE (5664-301). Additionally, ordering instructions are scheduled to be mailed from ISD to all current licensees by December 1, 1986.

NEW LICENSEES: Orders will be accepted now. Orders entered prior to availability will be scheduled for a first customer ship (FCS) date of November 1986, unless a later date is specified.

VM/IS BASE DSLO: Ordering a DSLO feature will result in ISD

maintaining a record of this customer location as a DSLO user only. All material for the DSLO license must be ordered by the basic licensee. If a user selects DSLO, no other feature numbers are valid for this order and no program materials or updates will be shipped.

OPTIONAL MACHINE-READABLE MATERIAL: Orders will be accepted for machine-readable source licensed program materials for some VM/IS BASE functions with source licensed program materials designated as RESTRICTED MATERIALS OF IBM. This material will be available at no charge, except for the Group Control System (GCS) component of the VM/SP product function, which is a priced feature.

The optional source material includes:

o   Source code for the following selected functions:
   - System Control
   - Directory Maintenance
   - Background Execution
   - Shared User Files
   - Performance Monitor
o   Corrective service in source format
o   Periodic function replacement in source format, approximately
    every 6 months.

Source licensed materials will not be available for the remaining VM/IS BASE functions. These remaining functions will be distributed and serviced with object code only.

Customer modification of the machine-readable source code option is not recommended because alteration of IBM code may subject the customer to additional service charge if the alteration is determined to be the cause of a problem. Future enhancements and service of VM/IS BASE will assume the existence of unaltered function as shipped by IBM.

VM/SP-SYSTEM BASE CUSTOMER MIGRATION: With the enhancement of the system control function of VM/IS BASE to include the full function of VM/SP Release 4, there is no longer a requirement for VM/SP-System Base.

Current VM/SP-System Base customers are given the following choices:

o   Migrate their system to VM/IS BASE Release 4.
o   Select and install the individual products from VM/SP System
    Offering Release 4.

Current VM/SP-System Base customers who elect to migrate to VM/IS BASE Release 4, either on a one-time charge (OTC) or monthly license charge (MLC), can select one of the pricing options listed below:

o   Migrate to VM/IS BASE Release 4 graduated OTC converting all the individual program licenses to VM/IS BASE functions. If a customer previously licensed an OTC product under VM/SP-System Base and now migrates to the graduated OTC option of VM/IS BASE, the VM/IS BASE Release 4 OTC will be reduced by the now current graduated OTC of that function. The graduated one-time charges are those that correspond to the processor group that contains the CPU on which VM/IS BASE is licensed.

o   Migrate to VM/IS BASE Release 4 MLC, converting all the individual program licenses to VM/IS BASE Release 4 functions. The core functions of VM/IS BASE cannot be separately ordered, therefore the MLC for VM/IS BASE Release 4 is the sum of the MLC of the core and the MLCs of the additionally ordered base functions. Those customers who have previously paid an OTC for any of the additional licensed base programs should consider the above OTC option that is available.

NOTE: The processor group can be determined by referring to the Graduated Charges Amendment to the Agreement for IBM Licensed Programs (Exhibit for IBM Machines (M3901) (Z125-3901) and Exhibit for non-IBM Machines (M3902) (Z125-3902)).

CONVERSIONS OF VM/SP-ENTRY RELEASE 2 WITH THE ENGINEERING/SCIENTIFIC FEATURE: VM/SP Entry Release 2 customers that have the engineering/scientific feature will receive the appropriate products and licenses under the engineering/scientific program development support optional package at no additional charge. This was done to simplify the overall ordering procedures of VM/IS.

VM/RSP

VM/RSP customers must sign an IBM Remote Support Agreement (Z125-3877) and Amendment to IBM Remote Support Agreement for VM Systems (Z125-3879) and indicate the date services are to begin. These contracts describe the terms and conditions of the VM/RSP and are available from your IBM marketing representative.

    The ordering procedures for the VM/RSP Support Offering are part of the ordering procedures for VM/IS.

    VM/RSP Support Offering optional services which require hourly charges will be recorded by the VM/RSP Support Center representative using the NSD Quality Service Activity Reporting (QSAR) procedures.

    For detailed information on the ordering procedures see Attachment A, VM/IS and VM/RSP Support Offering Order Worksheet.

TERMS AND CONDITIONS

    All terms and conditions for individual licensed programs contained in the optional packages in VM/IS remain unchanged from

those stated in the announcements for those programs.

LICENSING: This program is licensed under the terms and conditions of the Agreement for IBM Licensed Programs.

GRADUATED CHARGES AMENDMENT APPLIES: Yes, for licenses acquired for an OTC.

INSTALLATION OR LOCATION 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.

USAGE LICENSE APPLIES: No

IBM PC LICENSE OPTION AMENDMENT: Certain products within the VM/IS optional packages may also be licensed to a designated IBM Personal Computer XT/370 or AT/370 under the terms of the IBM Personal Computer License Option Amendment to Agreement for IBM Licensed Programs (Z125-3445-01), which must be signed prior to ordering eligible programs under the license option amendment. A host license must exist in the same enterprise to serve as the source of the machine-readable licensed program materials.

EDUCATIONAL ALLOWANCE: A 15% educational allowance toward eligible license charges is available to qualifying institutions in accordance with the Educational Allowance Amendment. The educational allowance is not additive to any other discount or allowance.

VOLUME DISCOUNT: Volume discounting is available under the Volume License Amendment (VLA) to the Agreement for IBM Licensed Programs and the Exhibit for Graduated Charges (LP3903) (Z125-3903). The following discount schedule applies for licenses obtained under the graduated one-time charge option. VM/IS BASE is included in categories G21, H21, J21, and K21.

NOTE: The processor group specified must be that processor group applicable to the machine specified in the designated machine field

on the Supplement to the Agreement for IBM Licensed Programs, or a higher processor group. (See the Exhibits to the Graduated Charges Amendment, Z125-3901 or Z125-3902).

QUANTITY OF ELIGIBLE LICENSED PROGRAMS

DISCOUNT PERCENT	G21	H21	J21	K21
10		3-4	3-4	3-4
15		5-9	5-9	5-9
20	3-4	10-19	10-19	10-19
25	5-9	20+	20+	20+
30	10-19			
35	20+			

The VLA discounts apply to both basic and DSLO licenses.

Upgrades are not eligible for volume discounts.

For further information regarding volume orders, contact your IBM marketing representative.

WARRANTED: Basic License: Yes; DSLO: Not applicable.

LICENSED PROGRAM MATERIALS AVAILABILITY: Restricted Materials: Yes

This licensed program will be available with some licensed program materials designated as RESTRICTED MATERIALS OF IBM. Machine-readable source will be included for some modules that are necessary for the tailoring and generation of VM/IS BASE.

In addition, some modules will be available without source licensed program materials. These modules will be available in object code only.

TESTING PERIOD: Basic License: Two months; DSLO: None.

PROGRAM SERVICES: Central Service, including the IBM Support Center, will be available until discontinued by IBM upon 12 months written notice.

Central Service, including the IBM Support Center, for DSLO licenses will be provided only through the customer location designated for the basic license.

Local problem source identification assistance and local defect resolution assistance for the SCP code within VM/IS BASE are available under the terms and conditions of the Agreement for Local System Support for IBM Control Programming or Programs on IBM Machines at the monthly system support charge, or monthly multiple system support charge, or will be provided at the applicable IBM hourly service rate.

VM/IS BASE SERVICE DELIVERY: Corrective service, primarily in object code format, with any pre- and/or co-requisite service requirements, will be provided to resolve the specific problem encountered by the user. A system refresh will be available at approximately six month intervals based on programming-service and program-level requirements.

Those VM/IS BASE customers who order the optional source will receive corrective service in source format for the applicable product function. In addition, customers receiving the optional source may elect to receive program update tapes (PUT) for the product functions in VM/IS BASE.

PROGRAM CURRENCY:

o   VM/IS BASE

Program Services previously announced for VM/SP-Entry Release 1 will be available until February 28, 1987.

Program Services previously announced for VM/SP-Entry Release 2 will be available until May 31, 1987.

o VM/RSP

The VM/RSP Support Center will provide defect support until program currency has ended for the products in VM/IS. After program currency expires, usage support will be provided on a best effort basis.

CHARGES

VM/IS BASE

VM/IS OPTIONAL PACKAGES: All charges, terms and conditions for individual component licensed programs contained in the optional packages in VM/IS should be determined from the Programming Announcements for those programs.

VM/IS BASE CHARGES: VM/IS BASE is the full-function, interactive operating system provided within VM/IS.

MONTHLY LICENSE CHARGE (MLC): $2,275

GRADUATED CHARGES:

PROCESSOR GROUP	BASIC OTC	DSLO OTC
10	$26,840	$22,250
20	46,985	38,950
30	66,280	54,890
40	100,520	82,420

VM/IS BASE FUNCTION FEATURES: Flexibility is provided with VM/IS BASE to select only those functions needed to satisfy specific data processing requirements. Charges may be determined from the following tables:

	MLC
VM/IS BASE (CORE)	
System control	
Hardware error recording	
Directory maintenance	
System administration	
End-user and application	
access menus	
Screen manager	$1,000
Performance monitor	50
Performance reporting	270
General language support routines	37

Shared user files	44
Background execution	44
Graphics support	413
Text formatter	417

BASIC GRADUATED ONE-TIME CHARGE

	PROCESSOR GROUP			
	10	20	30	40
VM/IS BASE (CORE)				
System control				
Hardware error recording				
Directory maintenance				
System administration				
End-user and application access menus				
Screen manager	$13,575	$23,765	$33,100	$51,760
Performance monitor	400	700	1,000	1,000
Performance reporting	1,600	2,800	4,000	4,000
General language support routines	440	775	1,110	1,775
Shared user files	440	770	1,100	1,100
Background execution	440	770	1,100	1,100
Graphics support	4,955	8,670	12,390	19,820
Text formatter	4,990	8,735	12,480	19,965

DSLO GRADUATED ONE-TIME CHARGES

	PROCESSOR GROUP			
	10	20	30	40
VM/IS BASE (CORE)				
System control				
Hardware error recording				
Directory maintenance				
System administration				
End-user and application access menus				
Screen manager	$10,34	$18,105	$25,100	$39,085

Performance monitor	400	700	1,000	1,000
Performance reporting	1,600	2,800	4,000	4,000
General language support routines	320	565	810	1,295
Shared user files	440	770	1,100	1,100
Background execution	440	770	1,100	1,100
Graphics support	3,715	6,505	9,300	14,875
Text formatter	4,990	8,735	12,480	19,965

The charge for processor group upgrades will be the difference in the current charges between the two groups. There will be no adjustment or refund for processor group downgrades. Licenses for which a customer has paid an OTC may be redesignated to a processor in that group or any lower group.

ONE-TIME CHARGE (OTC): Customers who pay an OTC for a licensed program receive enhancements and future release, if any, at no additional charge. Significant new function may be offered as an optional feature with a separate charge. If a new version is announced and the customer elects to license the new version for a one-time charge and replace the prior version, an upgrade charge may apply.

OPTIONAL SOURCE: No charge.

OPTIONAL SOURCE FOR GCS: $750

LICENSED MICROFICHE: Copies of the microfiche are available for a charge: $85.

VM/IS BASE FEATURE RE-INSERTION: VM/IS BASE function not ordered in VM/SP-Entry Release 2 can be added and installed with VM/IS BASE Release 4. Ease of installation and migration support will be provided. After Release 4 is installed, the equivalent product may be ordered, but the VM/IS BASE ease of install support for the

equivalent product is not applicable.

MIGRATION CREDIT: Since VM/IS BASE Release 4 now contains the full function found in VM/SP Release 4, it no longer will have a migration credit toward VM/SP.

Customers who replace the OTC VM/SP-Entry Release 1 or Release 2, or E/S(3) Entry Release 1, with the OTC VM/IS BASE Release 4, will no longer be eligible for the Migration Credit.

VM/RSP CHARGES

SUPPORT FOR VM/IS COMPONENT	MONTHLY SUPPORT CHARGE
VM/IS BASE*	$575
Text/Office Support	100
Intelligent Workstation Package	40
E/S Program Development Support Package	130
Data Base Query Package	65
APL Language Support Package	30
Problem Solving Language Package	30
Communication Controller Support Package	30

* Includes Networking

HOURLY CHARGE FOR OPTIONAL HOURLY SERVICES: Current PSR rate

MINIMUM HOURS BILLED: Two

---NOTICE TO CUSTOMERS---NOTICE TO CUSTOMERS---

October 7, 1986

USAGE LICENSE AMENDMENT WITHDRAWN FOR VM/SP-ENTRY (5664-301)

o Guest Support Available

o Monthly License Charge Increased

Effective immediately, the Usage License Amendment to Agreement for IBM Licensed Programs is no longer required for VM/SP-Entry (5664-301). The terms and conditions of the Usage Amendment are being waived for existing users of VM/SP-Entry (5664-301) effective today, October 7, 1986.

    IBM has also announced today that VM/SP-Entry has been renamed, VM/Integrated System BASE (VM/IS BASE), but will retain the same program number, 5664-301.

    In accordance with the applicable IBM agreements, amendments and/or supplements, customers who have VM/SP-Entry (5664-301) licensed under the Monthly License Charge will have a new, increased license charge of $2,275 effective February 1, 1987.

    Usage restrictions contained in VM/SP-Entry are removed in the VM/IS BASE Release 4. Guest support, which was unavailable in VM/SP-Entry, is now available in VM/IS BASE Release 4.

STATE AND LOCAL GOVERNMENT CUSTOMERS: Those state and local government customers whose fiscal year begins November 1, 1986, will

not be affected by increases to charges until November 1, 1987. For
other state and local government customers, the new monthly license
charges will be effective February 1, 1987, or at the beginning of
the customer's next fiscal year after November 1, 1986, whichever is
later.

If you have any questions regarding this notification, please
contact your IBM marketing representative.

PRODUCT NAME ABBREVIATIONS

ACF	Advanced Communications Function
ACF/SSP	ACF/System Support Programs
ACF/VTAM	ACF/Virtual Telecommunications Access Method
ACRITH	High-Accuracy Arithmetic Subroutine Library
APL2	APL2
BASIC/VM	IBM BASIC/VM
DIRMAINT	Directory Maintenance
CU2	Composition Utility Version 2
CVIEW	Cooperative Viewing Facility
DB EDIT	Data Base Edit Facility
DCF/FEF	Document Composition Utility/Foreground Environment Feature
DW/370	DisplayWrite/370
EP/3705/25	Emulation Program for the IBM 3705 and 3725
EREP	Environmental Recording Editing Printing
FORT IAD	VS FORTRAN Interactive Debug
FORT UTIL	FORTRAN Utilities for VM/370-II
EML	FORTRAN Elementary Math Library
GASP	3277 Graphics Attachment Support Program
GDDM/PGF	Graphical Data Display Manager/Presentation Graphics Feature
GDQF	Graphical Display and Query Facility
HDDI	Host Displaywriter Document Interchange
ISPF	Interactive System Productivity Facility
ISPF/PDF	ISPF/Program Development Facility
PASCAL/VS	Pascal/VS Compiler
PC BOND	PC Bond
PL/I RL	PL/I Resident Library
PL/I TL	PL/I Transient Library
PROFS	Professional Office System
PVM	Pass-Through Facility
RSCS	VM/Remote Spooling Communication Subsystem
SQL/DS	SQL/Data System
VM BATCH	VM Batch Subsystem

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VM FSF      VM File Storage Facility
VM/IPF      Virtual Machine/Interactive Productivity Facility
VMMAP       Virtual Machine Monitor Analysis Program
VM/PC H.SERV   VM/PC Host Server
VM/RSP      VM/RSP Support Offering
VM/RTM      VM Realtime Monitor
VM/SP       Virtual Machine/System Product
VM3812      IBM 3812 Pageprinter VM Support
VS FORTRAN    VS FORTRAN Compiler and Library
VSE/VSAM     Virtual Storage Extended/Virtual Storage Access Method
3270 PC FT    3270 -- PC File Transfer Program
6670 PRE. P   6670 Preprocessor
-------------ATTACHMENT--------ATTACHMENT--------ATTACHMENT----------
          VM/IS RELATED ANNOUNCEMENT LETTERS
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	RELEASE	PROGRAM	ANNOUNCEMENT	
PROGRAM NAME	NUMBER	NUMBER	NUMBER	DATE
ACF/SSP Version 3	1.0	5664-289	284-331	09/10/84
ACRITH	3.0	5664-185	285-367	10/01/85
APL2	2.0	5668-899	285-333	09/17/85
COMP UTIL Version 2	1.0	5798-RWL	285-222	06/18/85
CVIEW Version 2	1.1	5664-296	285-013	01/22/85
DB EDIT	1.1	5798-DLL	285-015	01/22/85
DCF/FEF	3.0	5748-XX9	285-055	02/12/85
DW/370	1.0	5664-370	285-365	10/01/85
EML	2.0	5799-BTB	284-261	07/17/84
EP/3705/25	2.0	5735-XXB	284-266	08/07/84
FORTRAN Utilities	2.2	5798-DFH	285-078	03/05/85
GASP	3.0	5799-AXX	286-095	02/24/86
GDDM/PGF	4.0	5748-XXH	285-056	02/12/85
GDQF	3.1	5668-905	285-293	08/20/85
HDDI	2.0	5799-BKE	284-114	03/20/84
IBM BASIC/VM	2.0	5668-996	285-511	12/17/85
ISPF/PDF Version 2	2.0	5664-285	285-371	10/01/85
Pascal/VS	2.2	5796-PNQ	P80-150	07/23/80
PC BOND	2.0	5664-298	285-434	11/05/85
PL/I Resident Library	5.1	5734-LM4	285-106	03/19/85
PROFS Version 2	2.0	5664-309	286-278	06/16/86
Passthru (PVM)	2.0	5748-RC1	282-114	06/30/82
RSCS Version 2	1.0	5664-188	284-269	08/07/84
SQL/DS	3.5	5748-XXJ	286-045	02/04/86
VM/PC Host Server		5664-319	285-441	11/05/85
VM/SP	4.0	5664-167	284-267	08/07/84

VM/IS-Productivity   4.0   5664-283   286-423 10/07/86
  Facility
VM3812   1.1   5798-DTE   285-391 10/15/85
VS FORTRAN Compiler &
  Library   4.1   5748-FO3   285-175 05/21/85
VS FORTRAN Interactive
  Debug   2.0   5668-903   285-175 05/21/85
3270 PC File Transfer   1.0   5664-281   284-067 02/21/84
6670 PREPROCESSOR   2.2   5798-DKB   284-298 08/21/84
-------------ATTACHMENT--------ATTACHMENT--------ATTACHMENT----------
                 Appendix A:
            VM/IS and VM/RSP Support Offering
                  Order Worksheet
Please use this order worksheet to assist you with your VM/IS and/or
VM/RSP Support Offering order. If you have any questions, please
contact your IBM marketing representative. When the worksheet is
completed, give it to your IBM marketing representative to use to
configure the order on HONE.

    This worksheet contains two sets of instructions:
o To order VM/IS and/or VM/RSP for any 4300 or any 9370 processor
   (except the 9373 processor with one 9332 DASD), follow the
   instructions on page 2, and complete the order checklist on pages
   3 through 5.
o To order VM/IS and/or VM/RSP for a 9373 processor with one 9332
   DASD, follow the instructions on page 6 and complete the order
   checklist on pages 7 and 8.
    For all orders, complete the Additional Required Information
Sheet.
  VM/IS and VM/RSP Support Offering Order Checklist Instructions
Customer Name _____ Customer Number _____
    Order Instructions for 4300 Processors and 9370 Processors
        (Except 9373 Processors with one 9332 DASD)
o Diamonds
   - First Release 4 Order Diamond:
     -- Take no path if you have previously ordered Release 4 and
         now wish to order additional VM/IS BASE function, and/or
         the VM/RSP Support Offering, and/or additional optional
         application package products.
   - Additional VM/IS BASE Function Diamond:
     -- Take yes path if you want to order additional VM/IS BASE
         function, and this is not your first Release 4 order.

- VM/RSP for BASE Diamond:
  -- Take no path if you want to order optional application
     package products and/or VM/RSP support for the packages,
     and this is not your first Release 4 order.
- Optional Packages Diamond:
  -- Take yes path if any optional application package
     products are desired.

o VM/IS BASE
   - The first six component functions are mandatory (VM/IS BASE
     Core). Check the box beside each additional function, if
     any, which you desire.
   - If VM/RSP support for the VM/IS BASE is desired, then check
     the box beside VM/RSP. (Note: This will include VM/RSP
     support for the Networking Package.)
       If Optional Application Package Products are desired,
   then:
   - Check the box in the column indicating the desired pricing
     option for each program you desire.
     -- MLC box = Monthly License Charge (MLC) or Initial License
        Charge/Monthly License Charge (ILC/MLC)
     -- OTC box = One-time Charge (OTC)
         Check the box if VM/RSP support is desired for the
     package. (VM/RSP support for the optional packages requires
     VM/RSP support for VM/IS BASE.) VM/RSP support for VM/IS
     BASE includes VM/RSP support for RSCS, PVM, and CVIEW.
         If Communication Controller Support is desired, check
     either the 3705 or 3725 box, depending upon the requirements
     of your system. Only one of these boxes may be checked.
     (ACF/SSP is mandatory if this package is desired.)
         The 9373 processor can be configured with only two
     9332 DASD devices (four actuators). Although VM/IS BASE and
     any of the VM/IS optional packages may be installed on this
     configuration, all the optional packages may not be present
     at the same time. The customer may install PSL, ALS, IWS,
     NTWK and one of the following:
     -- DBQ
     -- E/SPDS and COM
     -- TXTO.
   - Refer to the Prerequisite section of this announcement for
     product dependencies within the optional packages.
       Additional Required Information Sheet:
   - Check the box indicating the appropriate response to each

```
         question.
      VM/IS AND VM/RSP SUPPORT OFFERING ORDER CHECKLIST
         *              *
        *  *           *  *
       *     *          * 1st  *
  NO *Additional *   NO  * Rel 4  *
+<--*  VM/IS BASE *<----- *   Order    *<----Start
|   * function  *        *        *
|     *     *         *    *
|      *  *              *
|        *              | YES
|      | YES            |
|      |   +----------------◆------------------+
|      |   |VM/IS BASE      5664-301   _x_|
|      |   | System control            |
|      |   | Hardware error recording       |
|      |   | Directory maintenance         |
|      |   | System administration        |
|      |   | Screen manager           |
|      |   | End-user and application access   |
|      |   |   menus               |
|      '---->|  Performance monitor      ___|
|          |  Performance reporting     ___|
|          |  General lang. sup routines  ___|
|          |  Shared user files        ___|
|          |  Background execution      ___|
'----+      |  Graphics support        ___|
   *       |  Text formatter        ___|
  *  *      |------------------------------------|
 *VM/RSP*  YES  |                 |
* for *---->| VM/RSP          5750-EXT___|
 * BASE *      '------------------------------------'
  *  *              |
   *                |
  | NO              |
  '--------------------------->|
                   *       Go to
                 *Opt*       Additional
                * Pkgs *---NO---->Required
                 *  *        Information Sheet
                  *          to complete
                 | YES
```

```
                   OPTIONAL PACKAGES
                         |
        Problem Solving---------|---------Networking
           Languages       |        Support
+-----------------------MLC-OTC+ | +-----------------------MLC-OTC+
|BASIC/VM   2.0 5668-996___ ___|||RSCS     2.1.0 5664-188___ ___|
|Pascal/VS  2.2 5796-PNQ___ ___|||PVM       2.0 5748-RC1___ ___|
|------------------------------|||CVIEW    2.1.1 5664-296___ ___|
|VM/RSP     5750-EXT___   |||------------------------------|
'------------------------------'||VM/RSP      5750-EXT___   |
        APL Language------------| '------------------------------'
         Support          |     Engineering/Scientific
+----------------------MLC-OTC+ |----------Program Development
|APL2     2.0 5668-899___ ___||         Support
|------------------------------|| +-----------------------MLC-OTC+
|VM/RSP     5750-EXT___   |||ISPF/PDF  2.2.0 5664-285___ ___|
'------------------------------'||ACRITH    3.0 5664-185   ___|
        Text/Office-------------||EML       2.0 5799-BTB   ___|
         Support         ||GDQF      3.1 5668-905___ ___|
+----------------------MLC-OTC+ ||CU2       1.0 5798-RWL   ___|
|PROFS   2.2.0 5664-309___ ___|||GASP      3.0 5799-AXX___   |
|DW/370    1.0 5664-370___ ___|||PL/I R Lib  5.1 5734-LM4___ ___|
|VM3812    1.1 5798-DTE___ ___|||VS FORTRAN  4.1 5748-FO3___ ___|
|HDDI     2.0 5799-BKE___ ___|||FORT Util  2.2 5798-DFH___ ___|
|6670 Pre P 2.2 5798-DKB___ ___|||FORT IAD   2.0 5668-903___   |
|PL/I              |||------------------------------|
|  Res Lib  5.1 5734-LM4___ ___|||VM/RSP      5750-EXT___   |
|------------------------------||'------------------------------'
|VM/RSP      5750-EXT___  ||
'------------------------------' |
                    |
            CONTINUE TO NEXT PAGE
          OPTIONAL PACKAGES (CONTINUED)
                    |
                    |
                    |
                    |
        Data Base---------------#-----------Communication

          Query        |      Controller Support
+----------------------MLC-OTC+ | +-----------------------MLC---+
```

```
|SQL/DS    3.5 5748-XXJ___ ___| | |EP/3705/25  2.0 5735-XXB    |
|DB EDIT   1.1 5798-DLL   ___| | | 3705 Feature       ___   |
|PL/I              | | |  or                |
| Res Lib  5.1 5734-LM4___ ___| | | 3725 Feature       ___   |
|-----------------------------| | |ACF/SSP   3.1.0 5664-289___   |
|VM/RSP      5750-EXT___   | | |-----------------------------|
'-----------------------------' | |VM/RSP       5750-EXT___   |
      Intelligent------------| '-----------------------------'
   Workstation Support      |
+-----------------------MLC-OTC+ |
|3270 PC FT 1.0 5664-281   ___| '--Go to Additional
|PC BOND   2.0 5664-298___ ___|   Required Information
|VM/PC Host    5664-319___ ___|   Sheet to complete
| Server             |
|-----------------------------|
|VM/RSP      5750-EXT___   |
'-----------------------------'
```

   VM/IS and VM/RSP Support Offering Order Checklist Instructions

Customer Name _____ Customer Number _____

     Order Instructions for 9373 Processor with One 9332 DASD

o   Diamonds
   - 1st Rel 4 Order Diamond:
      -- Take no path if you have previously ordered Release 4 and
        now wish to order the VM/RSP Support Offering.
   - Office or E/S Diamond:
      -- You must choose either the Text/Office Support Subset or
        the E/S Program Development Support Subset.
        If this is not your first Release 4 order, it must be an
   order for new or additional VM/RSP support. You must:
   - Check the box beside each entity for which VM/RSP support is
      desired. (Note VM/RSP support for VM/IS BASE includes
      support for RSCS, PVM and CVIEW. Also VM/RSP support for the
      Text/Office Support Subset or E/S Program Development Support
      Subset requires VM/RSP support for VM/IS BASE.)
o   If this is your first Release 4 order, the VM/IS BASE Core is
   mandatory. It consists of the six component functions listed.
o   RSCS is also required for the minimum 9373 system. However, you
   must check the box in the column indicating the desired pricing
   option:
   - MLC box = Monthly License Charge (MLC) or Initial License
      Charge/Monthly License Charge (ILC/MLC)
   - OTC box = One-Time Charge (OTC)

o If VM/RSP support for VM/IS BASE is desired, then check the box
   beside VM/RSP. (Note: this will include VM/RSP support for RSCS,
   PVM, and CVIEW.)
o PVM and CVIEW are available. PVM is required if VM/RSP is
   elected; CVIEW is recommended. Check the box in the column
   indicating the desired pricing option for each program you
   desire:
   - MLC box = Monthly License Charge (MLC) or Initial License
      Charge/Monthly License Charge (ILC/MLC)
   - OTC box = One-Time Charge (OTC)
o If this is your first Release 4 order, you must choose either the
   Text/Office Support Subset or the E/S Program Development Support
   Subset. If you choose the Text/Office support subset, the DW/370
   Program is required for PROFS support. If you choose the E/S
   Program Development Support Subset, the graphics support function
   of VM/IS BASE is required. For either Subset, you must:
   - Check the box in the column indicating the desired pricing
      option for each program you desire:
      -- MLC box = Monthly License Charge (MLC) or Initial License
         Charge/Monthly License Charge (ILC/MLC)
      -- OTC box = One-Time Charge (OTC)
   - Check the box if VM/RSP support is desired for the package.
   - Refer to the Prerequisite section of this announcement for
      product dependencies within the optional packages.
o Additional Required Information sheet:
   - Check the box indicating the appropriate response to each
      question.

```
          9373 PROCESSOR WITH ONE 9332 DASD

      |
       *
      *   *
    *  1st  *  NO          +------------------------+
    *  Rel 4  *-------------------->| VM/RSP Order        |
     * Order  *             |              |
      *   *              | VM/RSP    5750-EXT  |
       *               |    for      |
      | YES              | VM/IS BASE       ___|
+-----------◆---------------------------+ | Text/Office Support ___|
|VM/IS BASE        5664-301    _x_ | | E/S Prog.Dev.Supp.  ___|
| System control             | '------------------------'
| Hardware error recording        |        |
| Directory maintenance         |      Go to Additional
```

```
| System administration      |     Required Information
| Screen manager             |       Sheet to complete
| End-user and application access menus|
'-----------------@-----------------'
           |
 +------------------------------------+
 |                MLC  OTC |
 | RSCS     2.1.0 5664-188 ___  ___ |
 |------------------------------------|
 | VM/RSP        5750-EXT ___    |
 '------------------------------------'
           |
 +------------------------------------+
 |                MLC  OTC|
 | PVM      1.2.0 5748-RC1 ___  ___|
 | CVIEW     2.1.1 5664-296 ___  ___|
 '------------------------------------'
           |
      Continue to Next Page
           9373 PROCESSOR WITH ONE 9332 DASD
                 Continued
                   |
                   *
                  * *
        Office    * Office*   E/S
      +-<-----------*   or   *--------->-+
      |         * E/S *         |
      |          * *           |
      |           *            |
 +-------------�----------------+ +----------------�------------+
 |   TEXT/OFFICE SUPPORT    | |E/S PROG. DEV. SUPPORT SUBSET  |
 |      SUBSET        | |   (includes VM/IS BASE    |
 |             | |    Graphics Support)    |
 |          MLC  OTC | |             MLC OTC|
 |PROFS  2.2.0 5664-309___  ___ | |ISPF/PDF  2.2.0 5664-285___ ___|
 |DW/370   1.0 5664-370___  ___ | |ACRITH   1.3.0 5664-185   ___|
 |-----------------------------| |EML     1.2.0 5799-BTB   ___|
 |VM/RSP     5750-EXT___    | |FORTRAN  1.4.1 5748-FO3___ ___|
 '-------------@---------------' |FORT UTIL 1.2.2 5798-DFH___ ___|
         |              |FORT IAD  1.2.0 5668-903___ ___|
         |              |Graphics Support          |
         |              |-----------------------------|
```

```
|            |VM/RSP      5750-EXT___  |
|            '----------------@------------'
|                       |
'----------------------------------'
                    |
         Go to Additional Required
         Information Sheet to complete
      Additional Required Information Sheet
```

Designated Processor Type   _____ Serial Number _____

Model Group Number   _____

 IBM CPU:
```
                +--+         +--+
          YES '--'      NO '--'
```
9373 System with

one 9332 DASD:
```
                       +--+         +--+
          YES '--'      NO '--'
```
DASD Type for 4300

Systems:
```
              +--+         +--+
          3370 '--'    3380 '--'
```
DASD Type for 9370

Systems:
```
              +--+         +--+
          9332 '--'    9335 '--'
```
Tape Distribution Media:
```
              +--+         +--+      +--+
          9/1600 '--'   9/6250 '--' 18/38K '--'
```
Migration Aid:
```
              +--+         +--+
          YES '--'      NO '--'
```
VM/IS BASE

Pricing Option: Basic +--+   Basic +--+ DSLO +--+
```
          OTC   '--'    MLC   '--'  OTC   '--'
```
Optional Source

(except GCS):
```
                +--+         +--+
          YES '--'      NO '--'
```
Optional GCS Source:
```
                +--+         +--+
          YES '--'      NO '--'
```
Optional PUT Service:
```
                +--+         +--+
          YES '--'      NO '--'
```
Optional 'Managing Your

System' Videotape:
            3/4 in. +--+   +--+   +--+   +--+
            U-Matic '--' VHS '--' BETA '--' NO '--'
    The following corrections are required in the External letter:

    Under the heading Engineering/Scientific Program Development Support, the program number for ACRITH 3.0 as 5564-185 is in error. The correct program number is 5664-185.

    Under the heading VM/IS BASE, list item "VM/IS for the IBM 9373 Processor," delete the two sentences prior to the dashed list and replace with the following: "For 9373 configurations with only two 9332 spindles (four actuators), a customer may install the following packages from VM/IS:"

    Continuing in this same list, the program number 5664-186 for ACRITH 1.3.0 is in error. The correct program number is 5664-185.

    In the Ordering Information section, under the heading VM/RSP, first paragraph, delete the last sentence and replace it with the following: "These contracts describe the terms and conditions of the VM/RSP and are available from your IBM marketing representative."

    Under the heading Volume Discount, the category numbers are in error as G22, H22, J22 and K22. The correct category numbers are G21, H21, J21 and K21.

    Under the heading Quantity of Eligible Licensed Programs, the Category column headings are in error as G22, H22, J22 and K22. The correct column headings are G21, H21, J21 and K21.

    Under the heading Licensed Microfiche, delete the second paragraph which begins "Customers who pay..." and ends with "...may be required."

    Under the heading VM/RSP Charges, add an asterisk following VM/IS BASE, and delete the asterisk following Intelligent Workstation Package.

    In the attachment VM/IS and VM/RSP Support Offering Order Checklist Instructions, delete the first sentence of the paragraph which begins "The 9373 processor limits a customer to two 9332 DASD (four actuators)" and replace with the following sentence: "The 9373 processor can be configured with only two 9332 DASD devices (four actuators)."

    In the Checklist, under the Engineering/Scientific Program Development Support heading, add a box in the MLC column for GDQF.