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Release 1 PLC 13)

Previous Newsletters None

## IBM Virtual Machine Facility/370: Planning and System Generation Guide

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This Technical Newsletter, a part of Release 1 PLC 13 of IBM Virtual Machine Facility/370, provides replacement pages for your publication. These replacement pages remain in effect for subsequent VM/370 releases unless specifically altered. Pages to be removed and/or inserted are listed below.

Title page, 2	47-54	101-108
Summary of	57,58	113-116
Amendments	61-62.1	121,122
15,16	63-66.1	125,126
25,26	73-74.1	131-134
29,30	75-78.1	157,158
41,42	85,86	169-176
	89,90	179

Changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

### Summary of Amendments

This Technical Newsletter incorporates changes that reflect VM/370 support of the IBM System/370 Model 165 II; the IBM Program Product OS COBOL Interactive Debug; enhanced simulation of OS macros by CMS; and improved dynamic TIC modification for OS/VS TCAM.

**Note:** Please file this cover letter at the back of your publication to provide a record of changes.

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81



File No. S370-34  
Order No. GC20-1801-2

**Systems**

## **IBM Virtual Machine Facility/370: Planning and System Generation Guide**

I Release 1 PLC 13

This publication is intended for those responsible for the planning and installation of a VM/370 system. It includes information on virtual machine concepts, operating systems in a virtual machine, and planning and system generation considerations for a VM/370 installation. The publication *IBM Virtual Machine Facility/370: Introduction*, Order No. GC20-1800 is a prerequisite for understanding this publication.

# IBM

## PREFACE

This publication provides the people responsible for planning and installation of a VM/370 system with the information they need to determine the facilities and support personnel that will be required.

All readers should have a general understanding of System/370 data processing techniques. Those responsible for installing and operating the VM/370 system should have a more detailed knowledge about teleprocessing systems. In addition, all users of this publication should be familiar with the information contained in the IBM Virtual Machine Facility/370: Introduction, Order No. GC20-1800.

This publication is divided into six main sections, plus appendixes. "Section 1. Introduction" contains a brief description of VM/370 and its operating components.

"Section 2. CMS Considerations" supplies the reader with detailed information about the Conversational Monitor System (CMS), a virtual machine operating system that is part of VM/370.

"Section 3. Operating Systems -- General Information" discusses several important considerations for all virtual machine operating systems.

"Section 4. System Generation Planning" describes the facilities and planning required to prepare to install a VM/370 system.

"Section 5. Generating and Installing VM/370" describes a step-by-step technique for generating a VM/370 system.

"Section 6. Maintenance" provides maintenance and system update information.

The Appendixes provide further details about particular aspects of VM/370, and are titled accordingly.

Where the term 3330 is used in this publication, it refers to the IBM 3330 Disk Storage, Model 1 or 2, or the IBM 3332 Disk Storage and Control, Model 1.

Where the term 2305 is used in this publication, it refers to the 2305 Fixed Head Storage, Models 1 and 2.

Note: If a conflict is found between this publication and the IBM Virtual Machine Facility/370: Release 1 Guide, Order No. GC20-1811, the information in the Release 1 Guide should be regarded as the correct specification.

### Third Edition (August 1973):

This is a major revision of GC20-1801-1 and makes that edition and Technical Newsletter GC20-2607 obsolete. This edition, together with TML GC20-2612, dated December 17, 1973, corresponds to Release 1 PLC 13 (Program Level Change) of IBM Virtual Machine Facility/370 and to all subsequent releases until otherwise indicated in new editions or Technical Newsletters.

Changes are periodically made to the specifications herein; before using this publication in connection with the operation of IBM systems, consult the latest IBM System/360 and System/370 Bibliography, Order No. GA22-5822, for the editions that are applicable and current.

Changes and additions to the text and illustrations are indicated by a vertical bar to the left of the change.

Requests for copies of IBM publications should be made to your IBM representative or to the IBM branch office serving your locality.

A form for readers' comments is provided at the back of this publication. If the form has been removed, comments may be addressed to IBM Corporation, VM/370 Publications, 24 New England Executive Park, Burlington, Massachusetts 01803. Comments become the property of IBM.

Summary of Amendments  
for GC20-1801-2  
as updated by GN20-2612  
VM/370 Release 1 PLC 13

ADDITION OF THE FOLLOWING  
VM/370 PROGRAMMING FUNCTIONS:

Specification Change

- Virtual machines using the OS/VS Telecommunications Access Method (TCAM), Level 5, generated or invoked with the VM/370 option, now issue a Diagnose instruction that causes CP to properly execute a dynamically modified channel program.
- The simulation of OS macros by CMS has been enhanced.

SUPPORT FOR THE FOLLOWING DEVICES:

Specification Change

VM/370 now supports the IBM System/370 Model 165 II.

AVAILABILITY OF PROGRAMS  
THAT EXECUTE UNDER CMS:

New Program

The IBM Program Product, OS COBOL Interactive Debug, is now available.

PUBLICATION CONTENT CHANGED

Maintenance: Documentation only.

Additions, deletions, and corrections too numerous to list are included in Technical Newsletter GN20-2612.