VMS Version 5.0-2 Release Notes

September 1988

This document describes software problems that have
been fixed in Version 5.0-2 of the VMS operating
system. It also describes changes to documentation,
software problems, restrictions, and notes that
pertain to Version 5.0-2 of the VMS operating system.

Revision/Update Information: This document supplements
                                the VMS Version 5.0
                                Release Notes and the
                                VMS Version 5.0-1 Release
                                Notes.

Software Version: VMS Version 5.0-2

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last page of this document requests the user's
critical evaluation to assist in preparing future
documentation.

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Preface

Version 5.0-2 of the VMS operating system is the
second maintenance update to Version 5.0 of the VMS
operating system. To apply the Version 5.0-2 update,
your system must be running Version 5.0-1.
This documentation describes problems that have been
fixed in Version 5.0-2 of the VMS operating system.
It also describes documentation changes, software
problems, restrictions, and notes that pertain to
Version 5.0-2 of the VMS operating system.

Intended Audience

The VMS Version 5.0-2 Release Notes is intended for
all system users. Read the release notes before you
use your Version 5.0-2 system.

Document Structure

The VMS Version 5.0-2 Release Notes is organized into
the following chapters:

o   Chapter 1 contains release notes intended for
     general users of the VMS operating system.
o   Chapter 2 contains release notes intended for VMS
     system managers.

o   Chapter 3 contains release notes intended for
     programmers.
o   Chapter 4 contains additions and corrections to the
     VMS Documentation Set.

Preface

Associated Documents

For more information see the VMS Version 5.0 Release
Notes and the VMS Version 5.0-1 Release Notes.

1 General User Release Notes

This chapter contains information about Version 5.0-2 of the VMS operating system that is of interest to general users.

1.1 MOUNT Utility—Problem with the Automatic Tape Labeling Feature

The /AUTOMATIC qualifier to the MOUNT command has not worked as intended since Version 4.0 of the VMS operating system. This qualifier controls the automatic tape labeling feature (which is enabled by default) and causes the system to generate labels for multiple magnetic tape reels. For example, to mount a magnetic tape you could enter the following command:

```
$ MOUNT MFA0: FIRST
```
If you use more than one magnetic tape reel, the system assumes the next tape will be labeled FIRS02 (the label generated by the automatic tape labeling feature).

Although this feature is also intended to allow users to mount a magnetic tape and specify their own volume labels for multiple magnetic tape reels, it does not work correctly. For example, suppose you mount a tape using the following command:

```
$ MOUNT MFA0: FIRST,NEXT
```
The first magnetic tape reel must be labeled FIRST, but the system ignores the user-specified label for the second reel (NEXT) and expects the label of the second tape to be FIRS02.

General User Release Notes

1.1 MOUNT Utility-Problem with the Automatic Tape Labeling Feature

This problem will be corrected in a future release of the VMS operating system.

1.2   SET ENTRY/REQUEUE Problem Corrected
In Versions 5.0 and 5.0-1 of the VMS operating system, a print job or restartable batch job that was submitted to queue "A" and then requeued to queue "B" would incorrectly execute from queue "A."

Version 5.0-2 of the VMS operating system corrects this problem.

1.3   SHOW QUEUE/SUMMARY Now Displays Correct Job Counts

In Versions 5.0 and 5.0-1 of the VMS operating system, the pending, holding, and retained job counts for a queue reported by the DCL command SHOW QUEUE/SUMMARY were sometimes greater than the actual number of jobs in each of these states. The job counts returned by the $GETQUI system service, the F$GETQUI lexical function, and the LIB$GETQUI Run-Time Library routine were also affected. This problem was documented in Section 7.1.8 of the VMS Version 5.0 Release Notes. Version 5.0-2 of the VMS operating system fixes this problem. Job counts that are accurate on a Version 5.0-2 system should remain accurate. However, inaccurate counts can only be corrected by deleting and then recreating the queue.

This chapter contains information about Version 5.0-2 of the VMS operating system that is of interest to system managers.

2.1 SYSGEN Problem with Non-Workstation Q-bus and UNIBUS Systems Corrected

In Versions 5.0 and 5.0-1 of the VMS operating system, there was a problem with SYSGEN (System Generation Utility) that affected non-workstation Q-bus and UNIBUS systems.
If the SYSGEN parameter WINDOW_SYSTEM was set to zero on a Q-bus or UNIBUS system that was not a workstation, the system did not load the drivers for the devices listed in Table 2-1.

Table 2-1 Devices Affected by SYSGEN Problem

AAV11-C	DTC04	IEQ11
AAV11-D	DTQNA	KWV11-C
ADQ32	IAV11-A	MIRA (M7763)
ADV11-C	IAV11-B	QPSS (LNV21)
ADV11-D	IBQ01	VS31

Table 2-1 (Cont.) Devices Affected by SYSGEN Problem

AXV11-C	IDV11-A	VSV21
CSAM	IDV11-B	VSV24
DRQ32B	IDV11-C	
DSV11	IDV11-D	

The workaround was to do a conversational boot and set the WINDOW_SYSTEM parameter to 1. Version 5.0-2 of the VMS operating system fixes this problem.

2.2   VAX 6200 Series Computers-Problems Booting Standalone BACKUP from a TK50

On VAX 6200 series systems with 192Mb or more of memory, standalone BACKUP fails to boot from a TK50 and displays the following message:

        %SYSBOOT-F-PFN allocation overwrites CI ucode
        ?06 halt instruction executed
        PC = xxxxxxxx

This message indicates that the system was unable to continue booting because all its memory was allocated. This problem occurs because standalone BACKUP limits the memory configurations to 4Mb. The workaround is to do a conversational boot on the system (see the installation and operations guide for your VAX computer) and enter the following commands at the SYSBOOT> prompt:

        SYSBOOT> SET PHYSICALPAGES 200000
        SYSBOOT> CONTINUE

The default value of the PHYSICALPAGES parameter for standalone BACKUP will be raised in a future release of the VMS operating system.

2-2

.3   VAXINFO REMOTE-Installation Problem Corrected

VAXINFO REMOTE V1.4 did not install correctly with
Versions 5.0 and 5.0-1 of the VMS operating system.
Version 5.0-2 of the VMS operating system fixes this
problem. Your system must be running at least Version
5.0-2 to install VAXINFO REMOTE V1.4.

2.4   VMS Batch/Print Facility
This section contains notes about the VMS Batch/Print
Facility.

2.4.1   Generic Queue Restriction Now Enforced

The VMS Batch/Print Facility is designed to allow one
execution queue to be the target of no more than eight
generic queues. In Versions 5.0 and 5.0-1 of the VMS
operating system, this restriction was not enforced
resulting in unpredictable behavior if more than eight
generic queues directed jobs to one execution queue.
Beginning in Version 5.0-2 of the VMS operating
system, this restriction is enforced.

.4.2   Job Controller Now Deallocates Virtual Memory

In Versions 5.0 and 5.0-1 of the VMS operating system
the job controller failed to deallocate all of the
virtual memory it allocated to process a batch or
print job request. This sometimes caused the job
controller process to abort with an "insufficient
virtual memory" error after processing several
thousand jobs.
Version 5.0-2 of the VMS operating system corrects
this problem.

3   Programmer Release Notes

This chapter contains information about Version 5.0-
2 of the VMS operating system that is of interest to
programmers.

3.1   ACMS V3.0 Queued Task Facility-Restriction Removed

Prior to Version 5.0-2 of the VMS operating system,
the ACMS Queued Task Facility was subject to a
restriction described in the ACMS Version 3.0 Release
Notes. Version 5.0-2 of the VMS operating system
removes this restriction and supports the full
functionality of the ACMS Queued Task Facility.

3.2   VAX Ada CALENDAR Function-Restrictions Removed

In previous versions of the VMS operating system, the
range of the VAX Ada function CALENDAR."-"(LEFT,RIGHT:
TIME) was incorrectly restricted to values in the
range of the type DAY_DURATION, rather than the
correct (and larger) range of the type DURATION. Also,
the limit on the largest possible value of the type
TIME was incorrectly specified in the VAX Ada Run-
Time Library to be one second earlier than the proper
value.
Version 5.0-2 of the VMS operating system corrects
both of these problems.

.3   VMS RTL-Problems with MTH$DCOSD and MTH$DSIND
       Functions Corrected

       In Version 5.0-1 of the VMS operating system, the VMS
       Run-Time Library (RTL) math routine MTH$DCOSD did not
       return 0 when the input argument was exactly 90 or 270
       degrees. Also, the routine MTH$DSIND did not return 0
       when the input argument was exactly 0 or 180 degrees.
       Version 5.0-2 of the VMS operating system corrects
       both of these problems.

       3-2

4   Documentation Information

This chapter contains additions and corrections to the VMS Documentation Set.

4.1   VMS Developer's Guide to VMSINSTAL

Developers of installation procedures using VMSINSTAL's SET STARTUP callback can only specify a file name for P3. The documentation incorrectly states that developers can specify SYSMAN for P3.

4.2   VMS System Dump Analyzer Utility Manual—Requirements for VIRTUALPAGECNT System Parameter

The Version 5.0 VMS System Dump Analyzer Utility Manual recommends that you set the system parameter VIRTUALPAGECNT to the size of the system dump file plus 3000 in order to do the following:
o   Maintain sufficient virtual address space for the System Dump Analyzer to map a dump

o   Load any required symbol tables
o   Store stack information

DIGITAL now recommends that you set VIRTUALPAGECNT to at least the size of the system dump file plus 4700. If your SDA sessions require many symbols (and invoke the READ/EXECUTIVE command), you should set VIRTUALPAGECNT to the size of the dump file plus 5750.

.3   VMS Version 5.0 Release Notes

          This section contains additions and corrections to the
          VMS Version 5.0 Release Notes.

4.3.1   Layered Product Availability
          In the VMS Version 5.0 Release Notes, Tables 1-1 and
          1-2 contained inaccurate information regarding the
          availability of some DIGITAL layered products.

          Tables 4-1 and 4-2 summarize the availability of
          the affected products for Version 5.0-2 of the VMS
          operating system. The information in these tables
          supersedes the availability information about these
          products that is in the VMS Version 5.0 Release
          Notes.

          Table 4-1 Currently Available Products

Layered Product	Version Number
DECnet/SNA VMS Application Programming Interface	2.2
DECnet/SNA VMS 3270 Data Stream Programming Interface	1.3
DECnet/SNA VMS 3270 Terminal Emulator	1.4
DECnet/SNA VMS APPC/LU6.2	2.0
DECnet/SNA VMS Printer Emulator	1.1

4-2

Table 4-1 (Cont.) Currently Available Products

Layered Product	Version Number
DECnet/SNA VMS Remote Job Entry	1.3
DECnet/SNA Gateway for Synchronous Transport	1.0
DECnet/SNA Gateway for Channel Transport	1.0
DECnet/SNA VMS Gateway Management	2.0
VAX 3271 Protocol Emulator	2.4
VMS/SNA	1.3

Table 4-2 Future Supported Products

Layered Product	Version Number
EDE-W Document Exchange	2.0
EDE with IBM DISOSS	2.1
VAX Message Router/P Gateway	1.1
VAX Message Router/S Gateway	1.1
DECnet/SNA VMS Distributed Host Command Facility	1.2

Documentation Information

4.3 VMS Version 5.0 Release Notes

Table 4-2 (Cont.) Future Supported Products

Layered Product	Version Number
DECnet/SNA VMS DISOSS Document Exchange Facility	1.4
DECnet/SNA VMS Data Transfer Facility Server	2.0
DECnet/SNA VMS Data Transfer Facility Utilities	2.0
DECnet/SNA Gateway	1.5
DECnet/SNA VMS Gateway Management for DECSA	1.5
VAX 2780/3780 Protocol Emulator	1.7

4.3.2   VAX PASCAL STARLET Note
Section 9.7 of the VMS Version 5.0 Release Notes,
which describes a VAX PASCAL STARLET installation
problem, contains incorrect information. The corrected
note follows:

The VAX PASCAL STARLET Version 3.4 kit does not
install properly with Versions 5.0 and 5.0-1 of
the VMS operating system. As a workaround, perform
the following steps to install the PASSTR034 kit.
Substitute the device name of the drive you are
installing the kit from for ddcu: in the second
command:

```
$ DEFINE SDLPASCAL SYS$COMMON:[SYSUPD.PASSTR034]SDLPASCAL.EXE
$ @SYS$UPDATE:VMSINSTAL PASSTR034 ddcu:
$ SET DEFAULT SYS$COMMON:[SYSLIB]
$ PASCAL/NOOBJECT/NOWARNING/ENVIRONMENT STARLET.PAS
```

This restriction will be removed in a future release
of VAX PASCAL.