Hard Disk System

Release Notes

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<td>DECmate</td>
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<td>Work Processor</td>
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Manual Objectives

This manual contains release notes for P/OS V3.2.

Audience

Users of P/OS V3.2.

Structure of This Document

Chapter 1 describes P/OS V3.2, its new and changed features, and the contents of the P/OS kit.

Chapter 2 contains release notes on system components.

Chapter 3 contains release notes on installing and running applications.

Chapter 4 contains release notes on the Command Language application.

Chapter 5 contains release notes for the P/OS Server environment.
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NEW AND CHANGED FEATURES

New P/OS V3.2 features include:

- A new system installation procedure, which allows you to economize on disk space. The new procedure is described in Chapter 2 of the Hard Disk System User's Guide.

- The Disk Maintenance Utility, which performs basic maintenance on your disks and diskettes by checking for bad blocks and identifying lost files. The utility is described in Chapter 11 of the Hard Disk System User's Guide.

- The Broadcast Message utility, which allows you to send messages to other users. See the Hard Disk System User's Guide for more information.

- The GIDIS-to-Sixel File Converter program, which converts GIDIS files to sixel files that can be printed on other systems besides the Professional. Installing and running the conversion program is described in Chapter 2 of this document.

- New script commands, which allow you to modify the system startup files as well as the workstation registration and account management files. See the Hard Disk System User's Guide for more information.
Revised P/OS features, described in the Hard Disk System User's Guide, include:

- Changes to the Account Management program, which now allows you to enter eight-character passwords or null passwords, and to choose from a list of accounts when you are adding, modifying, or deleting an account.

- Changes to Terminal Setup, which now allows you to change the shading on black and white monitors.

- Changes to Print Services, which now provides you with a list of your print queues when you choose the Show print queue option.

KIT CONTENTS

The diskettes in the P/OS V3.2 kit are protected by write-protect tabs. Please leave the tabs on -- they safeguard the P/OS system files from accidental damage. The V3.2 kit is composed of the following 21 diskettes:

<table>
<thead>
<tr>
<th>Diskette Label</th>
<th>Contents</th>
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<tr>
<td>PROINSTALV32</td>
<td>o P/OS Installation application</td>
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<td>PROSETUPV32</td>
<td>o P/OS system files, including installation and system setup files</td>
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<td>PROSYSTEMV32</td>
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<td>o P/OS system files, including P/OS Services</td>
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<td>PROLIBRARV32</td>
<td>o P/OS system files, including language libraries</td>
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<tr>
<td>PROGRAPH1V32</td>
<td>o P/OS system files, including graphics libraries and fonts</td>
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<tr>
<td></td>
<td>o GIDIS to Sixel File Converter</td>
</tr>
<tr>
<td>Diskette Label</td>
<td>Contents</td>
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</table>
| PRODRIVERS ✓   | o P/OS system files  
o Test the Positional Device Interface (PDI) V1.0  
o PDI Setup V2.1 for P/OS V3.2  
o PDI Sketchpad |
| PROMENUV32 ✓    | o P/OS system files, including menu and Help files |
| PROAKOUNTV32 ✓  | o P/OS system files, including Account Management files and the startup initialization file |
| POSSERVR1V32   | o P/OS Server system files  
o Workstation Registration  
o Cluster Status Display (CSD) V1.0 for P/OS V3.0 and later  
o Broadcast Message  
o DECnet Broadcast Message Receiver |
| POSSERVR2V32 no| o P/OS Server system file |
| PRODCL got     | o Digital Command Language (DCL) files |
| PRODCL2 got    | o DCL files  
o Installation file to install PRO/Tool Kit V3.0 on P/OS V3.2 |
| DCLHLP got     | o DCL On-Line Help files |
| DCLHLP2 got    | o DCL On-Line Help files |
| PROSE          | o PROSE editor  
o EDT editor V3.17  
o Backup and Restore (Archive) |
| PRONVR         | o NVR Utility |
| PROBRU         | o Backup and Restore Utility (BRU) |
| PROSCAN        | o Disk Maintenance Utility V1.00 |
| PROGRAPH2V32 ✓ | o P/OS system files, including graphics fonts |
Diskette Label | Contents
---|---
PROGRAPH3V32 | o P/OS system files, including graphics fonts
 | o RTOG - ReGIS to GIDIS Converter

Associated Documents

The following six manuals are included with P/OS V3.2:

- P/OS Server User’s Guide
- Hard Disk System User’s Guide
- Hard Disk System for Beginners
- PROSE User’s Guide
- PRO/EDT User’s Guide
- Command Language User’s Guide

ON-LINE RELEASE NOTES

A file containing on-line release notes is automatically copied to your hard disk when you install P/OS V3.2. The file, LB000:[1,2]RELEASE.DOC, may contain additional, last-minute information about P/OS V3.2; before using P/OS, please check to see whether this file contains more information.
Chapter 2

Release Notes for System Components

FILE PROTECTION

File protection for P/OS V3.2 can restrict access to files, depending on the group code of the User Identification Code (UIC) or the privileged/nonprivileged status of a user. Version 3.2 of P/OS differs from pre-3.0 versions as follows:

- The protection UIC of a user accessing the LB000: or LB001: device has a group code of 377.

- A user accessing files or directories on LB000: or LB001: can only access files with the same owner group. The owner group of the file must be 377.

- A privileged user at the Server, accessing the LB000: or LB001: device, is granted all access to files with owner group 377.

- A privileged user at a workstation, accessing the LB000: or LB001: device, is granted all access to files owned by that workstation.

- A nonprivileged user accessing a file owned by that user on the LB000: or LB001: device is granted the right to change the file protection only if the owner has write access. Traditionally, any owner of a file could change the file protection no matter what access rights that owner had.

- Attempts to access files or directories on LB000: or LB001: that do not have an owner code of [377,n] results in a privilege violation.
System Components

See the Hard Disk System User's Guide for more information on protection.

PRINT SERVICES

After you select Hold print request from the Print Services Menu, you must exit and reenter Print Services before you can add, modify, or delete a print queue. If you try to add, modify, or delete a print queue without exiting and reentering Print Services after selecting Hold print request, an error message appears. It tells you that you need a privileged account to perform the operation. This error message appears even if you do have a privileged account.

Printer Port Characteristics

If you run an application that changes the characteristics of a port allocated to a print queue, the default port characteristics are restored when the print job is finished or when you reboot the system.

Changing DECnet Node Names

If the node name of a stand-alone Professional or a Server is changed, then any queue names you have designated as user default queues become invalid. The next time you attempt to access your default print queue, Print Services returns an error message that the queue is inaccessible.

DECNA PLACEMENT

If your system has a DECNA that does not appear to be functioning, check its placement in the card cage. Some revisions of the DECNA board must be placed behind the memory boards. DECNA boards are numbered 00042; memory boards are numbered 00034. Check the placement of the boards in your system and move your DECNA board behind the memory boards, if necessary. If the DECNA board still does not function properly, call your service representative.
SYSTEM COMPONENTS

SCRIPT FILES

Script files, and the commands you can use in them, are described in Appendix D of the Hard Disk System User's Guide. Should you, while modifying the LB000:[ZZSYS]STARTUP.INI file, seriously damage it, P/OS will attempt to enter File Services the next time you start up your system. If this happens, use File Services to copy the file named [ZZSYS]STARTUP.INI from the P/OS V3.2 diskette labelled PROAKOUNTV32 onto your system. Copying this file will restore the original [ZZSYS]STARTUP.INI P/OS system file and your system will be able to continue the startup process.

DISK MAINTENANCE UTILITY

If you are running the Disk Maintenance Utility from diskette and you enter File Services and try to delete a file on your DW2: device, you may receive an error message indicating a protection violation.

If this happens, try to delete the file using the logical LB002: in place of the device name. This logical is assigned to the device you selected on the Disk Maintenance Utility menu and allows you to access the system directories on your device.

INCREASING SECONDARY POOL SIZE AT NEXT BOOT

The system provides a fixed size of secondary pool. The size was determined by the requirements of system services for secondary pool, general system load conditions, and the size requirements of the GEN partition for user tasks.

If you get a 300/11 bugcheck, it may indicate that you do not have enough secondary pool for the applications you are running. Some of the things that take up secondary pool are:

- Structures associated with installed tasks, particularly prototype tasks
- Send-data packets
System Components

- Logical names

If your configuration needs a larger allocation of secondary pool, you can increase its size by creating an ASCII data file containing the size of the increment. The secondary pool size will increase by the increment the next time you boot the system.

To increase pool size, do the following:

1. Create a file for the Server, workstation, or stand-alone P/OS V3.2 system.

   The Server manager should create a file for the Server. Each workstation manager or user should create a file for his or her workstation or stand-alone P/OS V3.2 system, in the system-specific area for that workstation, the LB001: device. The format for this file is a standard text file created using an editor. The complete file specification for this file is:

   LB001:[ZZSYS]SECPOL.DAT

2. Enter the increase in size.

   Enter an octal number representing the number of additional blocks (64 bytes) of secondary pool. For example, 40.

3. Exit from the editor.

4. Reboot the system.

The system ignores the SECPOL.DAT file if it encounters an error at boot on opening the file, reading the first record, or converting the data to binary. In addition, should the total number of secondary pool blocks (system fixed allocation plus allocation extension from SECPOL.DAT) exceed half the size of the GEN partition, the system ignores the extension and secondary pool size defaults to its fixed value.

To decrease the secondary pool size to its fixed value, delete the SECPOL.DAT file. The secondary pool size reverts back to its original size at the next boot.
THE GIDIS-TO-SIXEL FILE CONVERTER PROGRAM

GIDIS is a Digital application used to create graphics files. These files have a filetype of .GID. If you want to print GIDIS files on another system (one that has a printer that supports the sixel graphics protocol), you can use the GIDIS-to-Sixel File Converter to convert your .GID files to .SIX files that can be printed. You can also use the Converter to create .SIX files that can be included in other files, which can then be printed. The .SIX files created by the GIDIS-to-Sixel File Converter are placed on the same volume and in the same directory as the original .GID files.

Installing or Removing GIDIS-to-Sixel

Install or remove the GIDIS-to-Sixel File Converter program as you would any other application. See the Hard Disk System User’s Guide for a description of how to install and remove applications.

Running GIDIS-to-Sixel Using Menus

You can run GIDIS-to-Sixel using menus, or you can run it using Command Language. To run GIDIS-to-Sixel using Command Language, see Chapter 4 of this document.

To run the GIDIS-to-Sixel File Converter program using the menus:

1. Choose it from the menu where it has been installed. The GIDIS-to-Sixel File Converter menu appears.

2. Make sure the type of printer you plan to use is the same as the device specified on the line labeled Device.

If you plan to use a different printer, change the device specified here. You can choose from the following devices: LN03, LA50, LA75, LA100/LA210, or LVP16 and compatible plotters.

To change the device:
System Components

1. Place the pointer next to the line labeled Device.

2. Press the <DO> key.

3. Place the pointer next to the printer you want to use.

4. Press <DO>.

3. Make sure the picture height specified on the line labeled Height of Picture is correct. If you want your picture printed in Landscape mode, specify a height of 0; if you want it printed in Portrait mode, specify a height of 30. You can also experiment with other picture sizes by specifying a whole number between 1 and 140, if you want. (See the Hard Disk System User’s Guide for an explanation of Landscape and Portrait modes.)

To change the height:

1. Place the pointer on the Height of Picture line.

2. Press <DO>. The cursor moves to the bottom of the screen.

3. Enter the new height. You may enter any whole number between 1 and 140, inclusive.

4. Make sure the picture width specified on the line labeled Width of Picture is correct. If you want your picture printed in Landscape mode, specify a width of 0; if you want it printed in Portrait mode, specify a width of 80. You can also experiment with other picture sizes by specifying a whole number between 1 and 140, if you want.

To change the width:

1. Place the pointer on the Width of Picture line.

2. Press <DO>. The cursor moves to the bottom of the screen.
3. Enter the new height. You may enter any whole number between 1 and 140, inclusive.

5. Make sure the print quality specified on the line labeled Print Quality is correct. The print quality setting applies only to the LN03 printer. If you are using an LN03 printer, you can choose between draft quality and letter quality. Which mode is best for your picture depends on the size and shape of the picture; experiment with the different modes.

To change the mode:

1. Place the cursor on the line labeled Print Quality.

2. Press <DO>. The menu reappears with the new setting.

6. Make sure the setting specified on the line labeled Output Data Format is correct. This setting determines whether the data required by the printer to print your picture (the printer initialization data) is included in the new SIXEL file. Specifying SIXEL PLUS INIT causes the printer initialization data to be included; specifying SIXEL ONLY causes the data not to be included.

If your picture is going to be part of another file, such as a DECPAGE file, do not include the printer initialization data; otherwise, it may override other, correct settings. However, if you are planning to print your picture on its own, specify SIXEL PLUS INIT since your printer needs the information to print your picture.

To change the Output Data Format setting:

1. Place the pointer on the line labeled Output Data Format.

2. Press <DO>. The menu reappears with the new setting.
System Components

7. After you have made sure that all the settings are correct, place the pointer on the line labeled Start and press <DO>. A list of all the GIDIS files in your current directory appears.

8. If the file(s) you want to convert are in your current directory, place the pointer next to the first file you want to convert and press <SELECT>. Continue moving the pointer and pressing <SELECT> until you have selected all the files you want to convert. (Press <CANCEL> to cancel your choices.) Then, press <DO>. A message appears on the screen as each file is copied.

9. If the file(s) you want to convert are not listed on the screen because they are in a different directory, occur too far down in the list to be shown on the first screen, or have an earlier version number, press <ADDTNL OPTIONS>.

To specify a different directory or volume:

1. Place the pointer next to Choose a different directory/volume.

2. Press <DO>.

3. Place the pointer next to the directory in which the file(s) you want to convert is located.

4. Press <DO>. A list of all the GIDIS files in the directory appears.

5. Select the file(s) you want to convert and press <DO>. A message appears on the screen as each file is copied.

To display more GIDIS files when there are too many in your current directory to be shown on one screen:

1. Place the pointer next to Display next group of files.

2. Press <DO>. The next list appears.
System Components

3. Select the file(s) you want to convert and press <DO>. A message appears on the screen as each file is copied.

To convert a file with an earlier version number, do not choose Show all versions. Instead, do the following:

1. Place the pointer next to Use extended file name.

2. Press <DO>.

3. Type the file specification, including the version number, of the GIDIS file you want to convert.

4. Press <DO>. A message appears as the file is copied. The new .SIX file is placed in the same directory and volume as the original .GID file.


11. Press <EXIT> to return to P/OS.
Chapter 3

Installing and Running Applications

Because of the changes and enhancements made to P/OS V3.0, which provide Server functionality and support for multiple hard disks and which continue to apply to P/OS V3.2, some applications require modifications in order to run correctly. In most cases, these modifications are made at installation time, and can be done easily using File Services or Command Language.

This chapter describes the modifications as follows:

- The General Application Workaround section describes general workarounds that you can use with any application.
- The Installing and Running DIGITAL Applications section describes specific modifications for DIGITAL applications.
- The Installing and Running Non-DIGITAL Applications section describes specific modifications for non-DIGITAL applications.
- The Using APPLFIX section describes APPLFIX, a command file you can use to modify applications for P/OS V3.2.

NOTE: Because some of the workarounds described in this chapter are case sensitive, enter all workarounds exactly as they appear in the text.
Installing and Running Applications

In addition to modifying the applications, you must also define a default print queue (using Print Control Services) before you run an application that uses print functions. This affects PRO/Tool Kit, Command Language, Synergy, and some applications that produce printed output.

GENERAL APPLICATION WORKAROUND

One of the more common application workarounds involves reassigning the LB000: device to DW001: by using an additional ASSIGN LOGICAL statement in the application's .INS command file. This workaround does not work properly if the physical device containing USER$HOME: (DW001:) is not the same as the physical device containing LB000: and the application is using components on the original LB000: device. These components are typically language run-time Object Time Systems (OTSs) and system resident libraries, such as the Core Graphics Library (CGL). They are always located in the [ZZSYS] directory.

Whenever the application activator sees an INSTALL [ZZSYS] in a .INS file, it tries to find the file in LB000:[ZZSYS]. The activator then saves the device-id and the file-id in a packet. As soon as the RUN line is encountered, the packet containing the device-id, unit number, and file-id is passed to the system to actually install them.

If the LB000: logical is reassigned in the meantime, the device-id is no longer valid. (There is no problem when USER$HOME: and LB000: device are on the same physical device, since the device-id is still valid.)

The workaround in such cases is to copy the run-time libraries into the DW001:[ZZAPnnnnnn] directory and modify the .INS file accordingly. Alternately, you can create a directory DW001:[OTS], copy all the libraries to that directory, and modify the .INS file. Please note that this workaround is needed only when the following three conditions are met:

- Reassigning the LB000: logical is required.
- USERS$HOME: is not located on the boot device (local home or home on second disk).
Installing and Running Applications

- The application uses components such as PASRES.TSK, CGLFPUS.TSK, PBFSML.TSK, or CET.TSK, which reside on the system's LB000: device in the [ZZSYS] directory.

The best solution, if possible, is to modify the application to access its various components with correct logical names as follows:

- Alluser components or DW001:, BIGVOLUME:
- Components unique to APPL$USER:
  the application APPL$NETWORK:
- System, cluster, or shared components LB000:

INSTALLING AND RUNNING DIGITAL APPLICATIONS

This section describes modifications to DIGITAL applications.

PRO/Tool Kit V3.0

If you are installing PRO/Tool Kit Version 3.0 on P/OS V3.2:

1. Insert the diskette labeled PRODCL2 from the P/OS V3.2 kit into a diskette drive.

2. Choose Environment services from the P/OS Main Menu. When the User Environment Services Menu appears, press the <NEXT SCREEN> key. The System Environment Services Menu appears.

3. Choose Copy application into public library.

4. Choose Entire application.

5. Choose the PRO/Tool Kit V3.0 for P/OS V3.2 application.
Installing and Running Applications

6. When the system prompts you for the next diskette, insert the PRODCL diskette from the P/OS V3.2 kit and press <RESUME>.

7. Insert the PROSE diskette from the P/OS V3.2 kit and press <RESUME>.

8. When the system prompts you for the PROTK1 diskette, insert the PROTK1 diskette from the PRO/Tool Kit V3.0 kit.

9. Continue inserting diskettes from the V3.0 kit and pressing <RESUME>. The diskette labeled PROTK5 is the last diskette you need for this installation.

PROSE PLUS V1.0

After installing PROSE PLUS V1.0, the system manager should do the following:

1. Copy all files in directories [ZZCET2] and [ZZSKETCH] to directories LB000:[ZZCET2] and LB000:[ZZSKETCH], respectively.

2. Using either Command Language or the PRO/Tool Kit, enter the following commands:

   SET/PROT:(GR:RWE) LB000:[ZZCET2].

   SET/PROT:(GR:RWE) LB000:[ZZSKETCH].

User-Defined Keys

PROSE PLUS V1.0 saves any user-defined key (UDK) definitions in LB000:[ZZCET2]PROSE.UDK. This is a public file, rather than the private file intended for user-defined keys. Consequently, two users cannot run PROSE PLUS simultaneously, since either user can modify the UDK definitions.
Installing and Running Applications

Naming Picture Files

To create a picture with PROSE PLUS V1.0, do the following:

1. Choose the Pictures option from the File/Edit Menu. Two options appear: File Selection Menu and Name a File Form.
2. Press ADDTNL OPTIONS to view other options.
3. Choose Use extended file name.
4. At the prompt, enter the file name, type, and version as follows:
   filename.type;version
   Do not attempt to enter a device or directory specification as this will result in an error.

An alternative to always using the extended file name option is to make a logical assignment using either Command Language or P/OS File Services. Using DCL, make the following logical assignment:

   ASSIGN BIGVOLUME: SY000:

This assignment modifies the volume portion of the default directory.

Using P/OS File Services, make the logical assignment as follows:

1. Choose File services from the Main Menu. The File Services Menu appears.
2. Select Directories on the List line.
3. Move the cursor to the Include line, enter BIGVOLUME: and press <SELECT>.
4. Move the cursor to the Action line and select Set_Current.
5. Press <DO>.
NOTE: You cannot accomplish the same thing from Command Language by typing Set Default BIGVOLUME: because Command Language resolves this logical, defeating the purpose of the logical assignment procedure.

PRO/SIGHT V1.0

To install PRO/SIGHT V1.0 on a P/OS V3.2 system, perform the installation as documented in the PRO/Sight User’s Guide. Then copy the file DW001:[001002]SIMAIN.MSG into the directory LB000:[001002].

Do not install the Positional Device Interface (PDI) application contained on the PRO/SIGHT V1.0 diskette. Rather, install the PDI Setup V2.1 contained on the P/OS V3.2 PRODRIVERS diskette.

PRO/SIGHT V1.1

Install PRO/SIGHT V1.1 on P/OS V3.2 as you would any other application. See the Hard Disk System User’s Guide for how to install applications.

Do not install the Positional Device Interface (PDI) application contained on the PRO/SIGHT V1.1 diskette. Rather, install the PDI Setup V2.1 contained on the P/OS V3.2 PRODRIVERS diskette.

PRO/Applications Starter Kit V1.0

Use the PROSE application supplied with P/OS V3.2, not the PROSE application packaged with the Starter Kit.

PRO/Communications V3.0

The following problems exist with V3.0 of PRO/Communications:
Installing and Running Applications

- When using PRO/LAT to connect to an ULTRIX or TOPS 10/20 system, the Professional may hang if it receives a message with an odd byte count.

- In VT52 emulation mode, reverse line feed does not work.

- When PRO/Communications is chosen from a menu immediately after power-up, you may receive an error message. This is because some of the application components are installed in the background. If you wait about 20 seconds before starting PRO/Communications, this problem does not occur.

- Occasionally the following two error messages appear together:

  FT system deallocation error
  The selected operation cannot be performed by the server.

  You can ignore these messages, as they do not affect the performance of PRO/Communications.

INSTALLING AND RUNNING NON-DIGITAL APPLICATIONS

Design Graphix/Executive V1.0

To install Design Graphix/Executive V1.0, follow the instructions in the manual, with one exception: Instead of using the backup utility (formerly a part of Disk/Diskette Services on earlier versions of P/OS) to complete the installation, you must run the Backup/Restore Application (Archive). This application is on the diskette labeled PROSE in the P/OS V3.2 kit. You must install the Backup/Restore Application (Archive) before you can install Design Graphix/Executive V1.0.

PRO/VIDEOTEX V1.0

To run this application you must create and execute a command file that equates the directory DW1:[200,200] to DW1:[X,Y], where [X,Y] is the user's User Identification Code (UIC).
Installing and Running Applications

Please note that if you do an incremental backup and restore, you will have to execute this command file again.

Using Command Language or PRO/Tool Kit and your favorite editor, create a file VTX.CMD as follows:

.ENABLE SUBSTITUTION

.SETS DIRSPC <UIC>
.SETS FISPC DIRSPC
.PARSE FISPC "[,]" LEFT GR OWN RIGHT
.TEST GR
.SETN GRLEN <STRLEN>
.IF GRLEN = 1 .SETS ZFILL "00"
.IF GRLEN = 2 .SETS ZFILL "0"
.IF GRLEN = 3 .SETS ZFILL ""
.SETS GR ZFILL+GR
;
.TEST OWN
.SETN OWLEN <STRLEN>
.IF OWLEN = 1 .SETS ZFILL "00"
.IF OWLEN = 2 .SETS ZFILL "0"
.IF OWLEN = 3 .SETS ZFILL ""
.SETS OWN ZFILL+OWN
.SETS FISPC GR+OWN+",DIR;1"
COPY 'DIRSPC'*.*;* [200200]*.*;*
DELETE 'DIRSPC'*.*;*
MCR PIP [0,0]'FISPC'/PR/WO:RWED
DEL/DIR 'DIRSPC'
MCR PIP [0,0]'FISPC'/EN=[0,0]200200.DIR;1
.STOP

Once you have created this command file, type @VTX.

RDM 300

In order for the RDM 300 series to work correctly on P/OS V3.2, you must alter RDM.INS located on the first diskette, 1BINRX50. Add this line before the RUN line:

ASSIGN LOGICAL LB000: "SY000:"
Installing and Running Applications

PRO 20/20

Using the PROSE Editor from the /TOOLS Command

To use the PROSE editor from PRO 20/20, you must copy the following files from LB000:[ZZSYS] to DW001:[ZZSYS]:

CET.TSK
PROSE.HLP
PROSE.MNU
PROSE.MSG

Using Print Services from the /PRINT Command

Because V3.2 of P/OS uses File Services to print a document, you must modify the .INS file to print a document from PRO 20/20. Modify the .INS file as described below:

1. Enter File Services and search for DW1:[ZZAP*]PROSUPER.TSK. Write down the directory name of the .INS file. (The format will be [ZZAPNNNNNN]ZZAPNNNNNN.INS.)

2. Add the following line to the .INS file after "INSTALL [ZZSYS]PASRES.TSK/LIBRARY":

INSTALL [ZZSYS]NFUTL.TSK/TASK=C$PUTL

This causes the application to enter File Services when Print Services is selected from the /PRINT command. See the Hard Disk User’s Guide for information on using File Services. The modified file is shown below:

Name ‘>>> PRO 20/20 <<< Version 1.0’
FILE [ZZSYS]CBTLOG.TSK/KEEP
FILE [ZZSYS]FM.TSK/KEEP
FILE PROSUPER.TSK/DELETE
FILE S20IOS.TSK/DELETE
FILE DODIR.TSK/DELETE
FILE PROSE.TSK/DELETE
FILE PROSE2.TSK/DELETE
FILE S20TFIL.DAT/DELETE
FILE S20CONFIG.DAT/DELETE
FILE SCMD1.C20/DELETE

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Installing and Running Applications

FILE SCMD2.C20/DELETE
FILE SCMD3.C20/DELETE
FILE SCMD4.C20/DELETE
FILE UCMDA.C20/DELETE
FILE UCMDB.C20/DELETE
FILE UCMDC.C20/DELETE
FILE AAPROD.SBF/DELETE
MOUNT 2020HELP
FILE S20HELP.HLP/DELETE
INSTALL [ZZSYS]CGLFPU.TSK/LIBRARY
INSTALL [ZZSYS]PASRES.TSK/LIBRARY
INSTALL [ZZSYS]NFUTL.TSK/TASK=C$PUTL
INSTALL PROSUPER.TSK/TASK
INSTALL S20IOS.TSK/TASK
INSTALL DODIR.TSK/TASK
ASSIGN LOGICAL WK000: "LB000:"
RUN SUPER

RS/1 V12.0

You must modify the following three .INS files.

RS1SETUP1:[ZZAP5]ZZAP5.INS
RS1SETUP1:[ZZAP6]ZZAP6.INS
RS1SETUP1:[ZZAP13]ZZAP13.INS

The modification to each file is the same. Insert the following two lines before the line containing a "RUN xxx" command, where xxx is SETUP, RS1, or RS1FIX:

ASSIGN LOGICAL LB: "DW001:"
ASSIGN LOGICAL LB0: "DW001:"

CT*OS V1.0

Install CT*OS following the instructions in the manual until diskette 1 is bonded.

Before running the CT*OS Manager, enter File Services and search for DW1:[ZZAP*]CTOS.TSK and DW1:[ZZAP*]CTMNGR.TSK. Write down the directory name of the two .INS files. (The format will be [ZZAPNNNNNN]ZZAPNNNNN.INS.)
Installing and Running Applications

Using EDT or PROSE, modify each of the two .INS files by adding the following line before the last line of each file:

    ASSIGN LOGICAL LB: "SYSDISK:"

(After you have edited both files, you should purge the old .INS file.)

You can then run CT*OS Manager according to the instructions in the manual.

Palette

Install Palette according to the instructions in the manual. Before running Palette for the first time, the system manager or a privileged user must copy the file SYSDISK:[ZZSYS]PALETTE.DAT to LB000:[ZZSYS]PALETTE.DAT. You can now run Palette. However, every time the Palette setup parameters are modified, the file must be recopied as described above.

MAPS/PRO Financial Modeling Application V1.0

MAPS/PRO cannot be installed on a Professional 380, unless you do the following:

1. Install the MAPS Install application from the application diskette. Do not install the MAPS Fast Install application.

2. Run the MAPS Install application to copy the first diskette. If you are doing this on a Professional 380, there will be an error while processing this diskette.

Using File Services, Command Language, or PRO/Tool Kit, and the file listing on page 12 of the MAPS/PRO Primer as a guide, copy the remainder of the files from this diskette to their appropriate destination(s) as explained in steps 3 and 4. Proceed to step 3, if you do not have P/OS Fast Install (part of the PRO/Tool Kit). Proceed to step 4, if you have P/OS Fast Install.
3. If you do not have P/OS Fast Install, do the following:

3a. Create a [MAPS] directory on a diskette. Copy the file MAPS.INS from the [MAPS] directory on DW1: to the diskette. Edit MAPS.INS and place the exclamation point character (!) at the beginning of each FILE statement line.

3b. Choose the Install application option from the Environment Services Menu. Then choose the From diskette option from the submenu that appears.

3c. Determine which directory has been created for the MAPS application. The directory name will be in the form DW1:[ZZAPnnnnn], where nnnnn is a five-digit number. Since this is the last application installed, it will be the largest number of this form on DW1:. For example, if this were the fourth application you had installed, look for [ZZAP00004]. Verify this by displaying [ZZAP00004]ZZAP0004.INS; it should be the MAPS .INS file.

3d. Copy all the files from DW1:[MAPS] to DW1:[ZZAPnnnnn]. You can then delete these files from the [MAPS] directory to conserve disk space.

3e. Using the file listing on page 12 of the MAPS/PRO Primer as a guide, copy the files from the remaining diskettes to DW1:. However, instead of copying files to DW1:[MAPS], copy them to DW1:[ZZAPnnnnn].

3f. You are now ready to run MAPS/PRO.

3g. If you subsequently want to remove this application, you can either delete the necessary files manually or remove the exclamation points from [ZZAPnnnnn]ZZAPnnnnn.INS (which you placed there in step 3a).

4. If you have the P/OS Fast Install application, do the following:

4a. Using the information on page 12 of the MAPS/PRO Primer as a guide, copy the files from the rest
Installing and Running Applications

of the diskettes to their proper destinations on DW1:

4b. Run the P/OS Fast Install application to enter the MAPS application from the [MAPS] directory into your application menu structure.

4c. You are now ready to run MAPS/PRO.

USING APPLFIX

The system manager should use the APPLFIX operation to modify applications for P/OS V3.2 when you get an error such as File not found.

NOTE: Using APPLFIX is not the most efficient way to modify applications to work on P/OS V3.2. We recommend that you use the specific fix for the application you want to use as described earlier in this chapter.

Prior to P/OS V3.0, P/OS supported only a single hard disk. However, P/OS V3.2 supports multiple disks (either physical or logical entities). Some applications which were accessing application component files using the device specification "LB000:" do not function correctly on V3.2. As a temporary "workaround," we have provided a command file that allows a system manager to copy files from the application diskette(s) to the systemwide device LB000:. The system manager must be logged in to a privileged system manager's account locally on the Server or on a P/OS V3.2 stand-alone system prior to invoking this command file. This procedure does not guarantee that the application will run properly.

The command file is located in LB000:[1,2]APPLFIX.CMD. To invoke the command file, enter either the Command Language or PRO/Tool Kit application and type the following:

@LB000:[1,2]APPLFIX

Further instructions are displayed by the command file.
The command file has two modes of operation—the default mode and the `/FULL` mode. In the default mode, any application component residing in the directories `[ZZSYS]`, `[001002]`, or `[001005]` is copied to the corresponding directory on the LB000: device. In the `/FULL` mode, all application components with an explicit directory specification are copied to the corresponding directory on the LB000: device.

We recommend that you first try the default mode. If that does not fix the problem, try using the `/FULL` mode.
Chapter 4

Digital Command Language Release Notes

This chapter contains release notes and corrections to the Command Language User's Guide.

NEW AND CHANGED FEATURES

New Digital Command Language (DCL) features, described in the Command Language User's Guide, include:

- Flying Installs

  A flying install is the process by which Command Language installs, runs, and then removes a task or utility that is needed to process a command, if the task is not currently installed in the System Task Directory (STD).

- New Commands

  - The ANALYZE/MEDIA command, which allows you to identify the number of bad blocks on a disk.

  - The BROADCAST and REPLY commands, which allow you to send messages to users on one or more workstations connected to your system or to a professional that is connected to your local network.

  - The SET FILE command, which allows you to establish certain file characteristics. You can change the end-of-file marker, direct a directory entry to point to a file in another directory, or truncate a file.
Command Language

- The SET PROMPT command, which allows you to set the prompt that DCL displays on your terminal.

- The SHOW USERS/NODE command, which displays information about users on your local node.

- **New Qualifiers**

  - The /PROTECTION qualifier to the CREATE/DIRECTORY command, which allows you to specify a protection code for the directory file when it is created.

  - The /TERMINAL qualifier to the CONTINUE, START, START/UNBLOCK, or STOP/BLOCK command, which directs the command to operate on a terminal other than the terminal from which the command was issued.

- **The Catchall Facility**

  The Catchall Facility allows you to customize DCL command processing by defining a logical name and equating it to one or more values. With this feature, you can set up DCL to interpret MCR commands, install, run, and remove a task, run a user-written task, or run the system-supplied, sample catchall task, TDX.TSK.

- **Default Editor Specification**

  You can change the default editor that DCL invokes by defining the logical name DCL$EDITOR and equating it to the value EDT, PROSE, SLP, or the name of an installed editor task.

- **Disabling the DCL EXIT Command**

  You can selectively disable the EXIT command on one or more terminals in a multi-user system.

**CORRECTIONS TO THE COMMAND LANGUAGE USER’S GUIDE**

The Command Language User’s Guide incorrectly describes the
SHOW USERS command as showing all users on all systems connected to a server. In fact, however, the only supported command format is SHOW USERS/NODE, which shows users on a local node only. If you are logged into a server system, you can use the Cluster Status Display Utility to show all workstations and workstation users who are logged into your server. The Cluster Status Display Utility is described in the P/OS Server User's Guide.

INSTALLING OR REMOVING COMMAND LANGUAGE

If you are planning to install PRO/Tool Kit as well as Command Language, see the next section in this document. If you are not planning to install PRO/Tool Kit, install or remove Command Language as you would any other application. See the Hard Disk System User's Guide for how to install or remove applications.

Installing DCL in conjunction with PRO/Tool Kit

If you are planning to install both PRO/Tool Kit and DCL, install PRO/Tool Kit first. Then, install only the application-specific components of Command Language. If you are installing PRO/Tool Kit V3.2, see the Hard Disk System User's Guide for a description of how to install applications and application-specific components.

INSTALLING OR REMOVING DCL ON-LINE HELP

Installing the DCL on-line Help is optional. However, you do not need to install DCL's Help if you also have PRO/Tool Kit's Help installed; PRO/Tool Kit's on-line Help includes Help for DCL.

You must have a privileged account to install DCL Help. Install the Help after DCL has been installed.

To install Command Language On-Line Help:

1. Run the Command Language application from the menu on which it is installed.
Command Language

2. Insert the diskette labeled DCLHLP in one of the diskette drives.

3. Type:

   $ @DCLHLP:[INSTALL]DCLHLPINS

4. Wait until installation is complete and a success message appears on your screen. Remove the diskette and store it in a safe place.

To remove Command Language On-Line Help, you must delete the Help files individually; they are not deleted automatically when you remove Command Language from the system. However, if you are a privileged user, you can delete the DCL-related Help files by typing:

   $ DELETE $LB000:[1,2]DCL*.HLP;*

The Help files for Command Language utilities are not deleted by this command, however.

RUNNING COMMAND LANGUAGE

To run the Command Language application, choose it from the menu on which it was installed. When the DCL prompt ($) appears, you are at DCL command level; the Command Language application is installed and ready to run. Refer to the Command Language User's Guide for more information.

Restriction to the SET and SHOW Commands

The SET and SHOW commands do not accept device logical names where a device is allowed.

SET PROTECTION Command

If multiple files are specified in a SET PROTECTION command, only the protection on the first file in the list is modified.
THE GIDIS-TO-SIXEL CONVERTER USING DCL

GIDIS is a DIGITAL application used to create graphics files. These files have a file type of .GID. If you want to print GIDIS files on another system (that has a printer that supports the sixel graphics protocol), you can use the GIDIS-to-Sixel File Converter to convert your .GID files to .SIX files that can be printed. You can also use the Converter to create .SIX files that can be included in other files, which can then be printed.

After you have copied the GIDIS-to-Sixel File Converter program into the public library and installed it into your account, you can run it using menus or you can run it using DCL. See the Hard Disk System User’s Guide for a description of how to install and remove applications; see Chapter 2 of this document for a description of how to run GIDIS-to-Sixel using menus. The .SIX files created by the GIDIS-to-Sixel File Converter are placed in the same directory and volume as the original .GID files.

Running GIDIS-to-Sixel Using DCL

To run the GIDIS-to-Sixel File Converter program using DCL:

Type:

$ INSTALL LB:[ZZPRODCL]GID26L.TSK

$ MCR G$S

When the prompt appears, type:

G$S> FILENAME/OPTION[S]

filename

Specifies the name of the .GID file to be converted. Specifying the file type is optional. If the .GID file is located in your current directory, specifying the volume name or the directory name is also optional. However, you must specify the directory name if the .GID file is located in a directory other than your current one; you must specify the volume name if the directory is located on a volume other than your current volume. Wildcards are acceptable.
options

May be one or more of the following:

/DEVICE=devicename

Specifies the name of the output device. May be one of the following: LA50, LA75, LA100, LN03, LVP16. Specify the category LA100 if your output device is an LA100 or an LA210; specify LVP16 if your output device is an LVP16 or compatible plotter. The default device is LN03.

/LANDSCAPE

Specifies that the picture is to be printed in Landscape mode. The default is the setting for Landscape mode.

/PORTRAIT

Specifies that the picture is to be printed in Portrait mode. The default is the setting for Landscape mode.

/HEIGHT=n

Specifies the height of the picture to be printed. May be any whole number between 1 and 140. To print a picture in Landscape mode, specify 0; to print a picture in Portrait mode, specify 30. The default is the setting for Landscape mode.

/WIDTH=n

Specifies the width of the picture to be printed. May be any whole number between 1 and 140. To print a picture in Landscape mode, specify 0; to print a picture in Portrait mode, specify 80. The default is the setting for Landscape mode.

/SIXEL_PLUS

Specifies that printer initialization data, which sets up the printer for printing, is included in the sixel output file. Sixel_plus should be specified when you are printing the file on its own.

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Command Language

/SIXEL_ONLY

Specifies that no printer initialization data is included in the sixel output file. Sixel only should be specified when you are including the output file in another graphics file.

/DRAFT

Specifies that the sixel file is to be printed in draft quality. This applies only to the LN03 printer.

/LETTER

Specifies that the sixel file is to be printed in letter quality. This applies only to the LN03 printer.

/[NO]QUIET

Specifies whether error messages are issued while the file(s) are being converted. This option does not affect the status message that indicates the file is being processed. The default is /NOQUIET.

/[NO]LOG

Specifies whether status messages are issued while the file(s) are being processed. The default is /LOG.
Chapter 5

FILE SERVER SYSTEM MANAGER SUGGESTIONS

We strongly suggest that the Server manager increase the number of large data buffers on the file server from 20 to at least 40 to increase performance. Do this as follows:

1. Run the DECnet Management Utility application.
2. Choose the Local Node Set-up option from the Management Utility for DECnet Menu.
3. When the Local Node Set-up Menu appears, press <ADDTNL OPTIONS>.
4. Enter the new number of large data buffers on the form that appears.

PRINT QUEUES

If you define a print queue on a stand-alone Professional and then boot from the Server as a workstation, you cannot modify or delete that print queue. You can use the queue, however.

COLOR MONITOR SETUP

There are two types of setup in P/OS V3.2: user and system. The user setup overrides the system setup. In a Server environment, your user setup is invoked regardless
of which workstation you log into. This can cause a problem, if your user setup is color and you log into a Professional with a monochrome monitor.

For example, if you customarily work on a system with a color monitor, you would select Color from the Terminal Setup Menu. If you then log into a workstation with a monochrome monitor, your user setup is invoked. This could result in overdriving a monochrome monitor and possibly damaging it. You need to change your user setup to match the monitor available on the workstation you are using.

Similarly, if you change the monitor on your system from color to monochrome and do not change your user setup, you could damage the monitor.

DECnet CABLE or CONNECTOR PROBLEMS

If you receive a 000500/xxxxxx error code, it may be caused by a problem with your DECnet hardware. Check all DECnet connections. See the PRO/DECnet Problem Determination Guide for more information.
P/OS V3.2, PRO/Toolkit V3.2, and PRO/DECnet V2.1 have gone to SDC. Field test has concluded. Much thanks to those who participated. We believe all the reported problems have been addressed.

The 'SDC' kit is available from:

SERPNT::VCAT:[SOFTWARE.POSV32KIT]

There is a file in the same account named LABELS.TXT that contains the labels for the diskettes. It is set up for Avery 4014 labels.

You will need the RX50 Copy Application (available from the SERPNT::VCAT:[SOFTWARE] account) to copy the images to diskette.

Please read SERPNT::VCAT:[SOFTWARE.POSV32KIT]RELNOTV32.MEM before copying or installing the software. PRO/DECnet V2.1 is the only version which will install on P/OS V3.2. DO NOT use previous versions of DECnet or server software with this kit. [See SERPNT::VCAT:[SOFTWARE.POSV32KIT]NETACFPFIX.TXT]

SERPNT::VCAT:[SOFTWARE.POSV32KIT]V32DOCS.LIS has pointers to on-line docs.

Because of the magnitude of changes to P/OS, PRO/DECnet and other applications, no update path has been provided nor should be attempted. Disks containing P/OS V3.2 FT1-UP1 and previous should install/re-install to use the 'SDC' kit.

The kit contents are:

SERPNT::VCAT:[SOFTWARE.POSV32KIT]

(from JONAH 28-sep-87, 34 .IMG's @ 800 blocks each, For SDC + Documentation)

<table>
<thead>
<tr>
<th>Image File</th>
<th>&quot;Volume Label&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSTALV32.IMG</td>
<td>&quot;PROINSTALV32&quot; (Bootable P/OS installation, 9)</td>
</tr>
<tr>
<td>SETUPV32.IMG</td>
<td>&quot;PROSETUPV32&quot;</td>
</tr>
<tr>
<td>SYSTEMV32.IMG</td>
<td>&quot;PROSYSTEMV32&quot;</td>
</tr>
<tr>
<td>CTABV32.IMG</td>
<td>&quot;PROCTABV32&quot;</td>
</tr>
<tr>
<td>LIBRARV32.IMG</td>
<td>&quot;PROLIBRARV32&quot;</td>
</tr>
<tr>
<td>GRAPHV32.IMG</td>
<td>&quot;PROGRAPHV32&quot;</td>
</tr>
<tr>
<td>DRIVERS32.IMG</td>
<td>&quot;PRODRIVERS&quot;</td>
</tr>
<tr>
<td>MENUV32.IMG</td>
<td>&quot;PROMENUV32&quot;</td>
</tr>
<tr>
<td>AKOUNTV32.IMG</td>
<td>&quot;PROAKOUNTV32&quot;</td>
</tr>
<tr>
<td>SERVRV32.IMG</td>
<td>&quot;POSSERVRV32&quot; (Server Software, 2)</td>
</tr>
<tr>
<td>SERVR2V32.IMG</td>
<td>&quot;POSSERVR2V32&quot;</td>
</tr>
<tr>
<td>PROSCAN.IMG</td>
<td>&quot;PROSCAN&quot; (Bootable applications, 3)</td>
</tr>
<tr>
<td>PROBRUV32.IMG</td>
<td>&quot;PROBRU&quot;</td>
</tr>
<tr>
<td>PRONVRV32.IMG</td>
<td>&quot;PRONVR&quot;</td>
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<tr>
<td>DNENTV21X1L.IMG</td>
<td>&quot;DECNETV21X1L&quot; (PRO/DECnet V2.1, 5)</td>
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<tr>
<td>DNENTV21X2.IMG</td>
<td>&quot;DECNETV21X2&quot;</td>
</tr>
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<td>DNENTV21X3.IMG</td>
<td>&quot;DECNETV21X3&quot;</td>
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<tr>
<td>DUNITLV21.IMG</td>
<td>&quot;NETUNITLV21&quot;</td>
</tr>
<tr>
<td>DNTSTV21.IMG</td>
<td>&quot;NETTESTV21&quot;</td>
</tr>
<tr>
<td>DCLV32.IMG</td>
<td>&quot;PRODCL&quot; (Command Language and PRO Services, 5)</td>
</tr>
</tbody>
</table>
DCL2V32.IMG = "PRODCL2"
DCLHLPV32.IMG = "DCLHLHP"
DCLHL2V32.IMG = "DCLHLHP2"
PROSEV32.IMG = "PROSE"

PROTK1V32.IMG = "PROTK1" (PRO/Toolkit V3.2, 7)
PROTK2V32.IMG = "PROTK2"
PROTK3V32.IMG = "PROTK3"
PROTK4V32.IMG = "PROTK4"
PROTK5V32.IMG = "PROTK5"
TOOLKIV32.IMG = "TOOLKIT"
NETTKV32.IMG = "NETTK"

GRAPH2V32.IMG = "PROGRAPH2V32" (Special Fonts, 2)
GRAPH3V32.IMG = "PROGRAPH3V32"

SASMANT32.IMG = "SASMAINTV32" (Bootable, Has RD53 support.)

( For "PROMAINT", "PROTEST", "SYNTK1", "SYNTK2" use copy of V3.0 diskette. )

............ Printable files ............

RELNOTV32.MEM = P/OS V3.2 Release Notes (207. Blocks)
LABELS.TXT = Thirty-four labels, AVERY 4014. (10. Blocks)
CONTENTS.TXT = This document.

_________________________________________________________________________________________________________

Installable (Copy to Library) applications on P/OS V3.2 Kit of are:

ON VOLUME "PROGRAPH1V32"
"Gidis to Sixel Conversion"

ON VOLUME "PRODRIVERS"
"PDI Setup V2.1 (P/OS 3.2)"
"Test the PDI V1.0"
"PDI Sketchpad"

ON VOLUME "POSSEVR1V32"
"Workstation Registration"
"CSD V1.0 for P/OS V3.n"
"Broadcast Messages"
"DECnet Broadcast Message Receiver"

ON VOLUME "PRODCL"
"Command Language V3.2"

ON VOLUME "PRODCL2"
"Install Toolkit V3.0 on P/OS V3.2"
(also components for building IO-Driver)

ON VOLUME "PROSE"
"EDT text editor, V3.17"
"PROSE"
"Backup/Restore Application (Archive)"

ON VOLUME "PROBRU" (Also Bootable)
"Backup and Restore Utility (BRU)"
ON VOLUME "PROSCAN" (Also Bootable)
"Disk Maintenance Utility V01.00"

ON VOLUME "PROGRAPH3V32"
"RTOG – Regis to Gidis Converter"

/wba 20nov87
Due to a programmer's oversight (*)
- (The programmer's name shall remain anonymous, ....)
The print services in P/OS v3.2 does NOT print a header page when requested.

To correct this problem the following command file (DSPL32A.ZAP) is provided
to zap the task DSPL.TSK.

;+ Change the .INDENT of the task from X3.09 to X3.10
; Change the references to BufrC to BufrE in module SETTAB ($Data)
; Now change the references to BufrC to BufrE in module SETTAB ($CODE)
;-
LB:[ZZSYS]DSPL/LI
2::R
0,6/
140630V
143160
0,246/
140630V
143160
0,2334/
140630V
143160
2:103046;R
0,6/
100162V
75576
2:34164;R
0,26/
100162V
75576
0,104/
100162V
75576
X

(*) posted for said programmer.
SDC-1 (Base Sys. 1 of 9)
P/OS V3.2
INSTALLATION (For P/OS, Bootable)
VOLUME LABEL "PROINSTALLV32"
© Jul1987 Digital Equipment Corp.

SDC-1 (Base Sys. 2 of 9)
P/OS V3.2
SETUP (Required for Installation)
VOLUME LABEL "PROSETUPV32"
© Jul1987 Digital Equipment Corp.

SDC-1 (Base Sys. 3 of 9)
P/OS V3.2
SYSTEM (Operating System)
VOLUME LABEL "PROSYSTEMV32"
© Jul1987 Digital Equipment Corp.

SDC-1 (Base Sys. 4 of 9)
P/OS V3.2
USER/SYSTEM SERVICES
VOLUME LABEL "PROCTABV32"
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SDC-1 (Base Sys. 5 of 9)
P/OS V3.2
LIBRARY ROUTINES
VOLUME LABEL "PROLIBRARV32"
© Jul1987 Digital Equipment Corp.

SDC-1 (Base Sys. 6 of 9)
P/OS V3.2 (w/ GID26L Applic'n.)
GRAPHICS COMPONENTS
VOLUME LABEL "PROGRAPH1V32"
© Jul1987 Digital Equipment Corp.

SDC-1 (Base Sys. 7 of 9)
P/OS V3.2
DRIVERS (w/ P.D.I. applications)
VOLUME LABEL "PRODRIVERS"
© Jul1987 Digital Equipment Corp.
VOLUME LABEL "PROSE"
© Jul1987 Digital Equipment Corp.

SDC-1 (Boot. NVR 1 of 1)
P/OS V3.2
NVR MODIFICATION UTILITY
VOLUME LABEL "PRONVR"
© Jul1987 Digital Equipment Corp.

SDC-1 (Boot. BRU 1 of 1)
P/OS V3.2 (and Application )
BACKUP/RESTORE UTILITY
VOLUME LABEL "PROBRU"
© Jul1987 Digital Equipment Corp.

SDC-1 (Boot. SCAN 1 of 1)
P/OS V3.2 (and Application )
BAD-BLOCK SCAN UTILITY
VOLUME LABEL "PROSCAN"
© Jul1987 Digital Equipment Corp.

SDC-1 (Add'1. Graphics 1 of 2)
P/OS V3.2
GRAPHICS COMPONENTS, ADDED
VOLUME LABEL "PROGRAPH2V32"
© Jul1987 Digital Equipment Corp.

SDC-1 (Add'1. Graphics 2 of 2)
P/OS V3.2 (REG to GID Appl'n.)
GRAPHICS COMPONENTS, ADDED
VOLUME LABEL "PROGRAPH3V32"
© Jul1987 Digital Equipment Corp.

SDC-1 (DECnet 1 of 5)
V2.1 for P/OS V3.n
PRO/DECNET MANAGEMENT UTILITY
VOLUME LABEL "DECNETV21X1"
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If the DECnet EXEC verification state was set to OFF using NCP, the PRO would crash whenever any network access was tried to it.