Advanced Printing Software

Installation Guide

September 2002

Product Version: Advanced Printing Software Version 1.2

Operating System and Version: Tru64 UNIX Version 5.1B or higher

This manual describes how to install Advanced Printing Software on systems running the Tru64 UNIX operating system.

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About This Manual

This manual describes how to install Advanced Printing Software on systems running the HP Tru64 UNIX operating system.

Audience

This manual is intended for system administrators or anyone else that is responsible for installing the Advanced Printing Software on systems running the Tru64 UNIX operating system. This manual is written for the person installing Advanced Printing Software who has knowledge of operating system concepts and commands as well as an understanding of the hardware and software configuration of the systems.

Organization

This manual consists of two chapters and two appendixes:

Chapter 1	Describes the hardware and software requirements that must be met to successfully install, configure, and use the Advanced Printing Software.
Chapter 2	Describes how to access and install the Advanced Printing Software.
Appendix A	Provides listings of sample installations.
Appendix B	Lists the files installed during the Advanced Printing Software installation.

Related Documentation

The following documents and online help volumes are available to support Advanced Printing Software users and administrators.

Advanced Printing Software System Administration and Operation Guide	Describes the tasks administrators and operators perform to configure and administer an Advanced Printing Software system.
Advanced Printing Software Command Reference Guide	Describes the command-line interface commands available to users and administrators.

Advanced Printing Software User Guide	Describes how to submit and monitor print jobs .
Advanced Printing Software GUI Help Files	Help volumes are accessible from the `pdprintadmin`, `pdprint`, and `pdprintinfo` GUI client files.

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Please include the following information along with your comments:

- The full title of the manual and the order number. (The order number appears on the title page of printed and PDF versions of a manual.)

- The section numbers and page numbers of the information on which you are commenting.

- The version of Tru64 UNIX that you are using.

- If known, the type of processor that is running the Tru64 UNIX software.

The Tru64 UNIX Publications group cannot respond to system problems or technical support inquiries. Please address technical questions to your local system vendor or to the appropriate HP technical support office. Information provided with the software media explains how to send problem reports to HP.

1

Preparing for the Installation

Before starting the installation procedures in Chapter 2, review the release notes available on the CD-ROM and the installation requirements outlined in this chapter.

1.1 Release Notes

Release notes for the Advanced Printing Software product are included with the documentation kit that accompanies the software. Hewlett-Packard Company strongly recommends that you read the release notes before using this product. The release notes identify known problems and restrictions in this release, and provide information on errors in the documentation.

1.2 Installation Overview

There are two methods of installing Advanced Printing Software and its reference pages:

- Locally, from a CD-ROM that is mounted on your system.

- Remotely, from a Remote Installation Service (RIS) server. A RIS server can be any processor running the Tru64 UNIX operating system.

If you expect to install the software from a RIS server, you need to know the name of the server and who maintains the RIS areas on the server. Before you begin a RIS installation, confirm the following:

- The Advanced Printing Software kit is available for remote installation.

- Your system is registered as a RIS client.

See the *Guide to Sharing Software on a Local Area Network* for more information about setting up a RIS server, adding clients, and providing software kits for remote installation.

1.3 Installation Requirements

Allow approximately 10 minutes to complete this installation procedure. Network activity during a remote installation can increase the installation procedure time. The following sections describe requirements for installing Advanced Printing Software.

1.3.1 Hardware Requirements

To perform the installation you need the following hardware:

- Software distribution device

  You need a distribution device that corresponds with the software
  distribution media. For example, if you have a CD-ROM software kit,
  you need an RRD42 or RRD43 optical disc drive. You must know how
  to load the media supplied with the software distribution kit on the
  appropriate drive. The documentation for the disc drive you are using
  explains how to load media.

- Terminal

  You can use either a hardcopy or video terminal to communicate with the
  operating system and respond to prompts from the installation procedure
  for Advanced Printing Software.

1.3.2 System Memory Requirements

Advanced Printing Software can be run on any Alpha-based system that
meets the following memory requirements:

- 64 MB of memory for server systems. This includes command-line and
  graphical user interfaces.

- 32 MB of memory for client systems supporting only the command-line
  interface.

- 64 MB of memory for client systems supporting both the command-line
  interface and the graphical user interface.

1.3.3 Back Up Your System Disk

Always back up your system before installing any software. Use the backup
procedures established at your site. For details on performing a system
backup, refer to your Tru64 UNIX documentation.

1.3.4 Login Privilege

You must be able to log in as the root user on the system where you are
installing the Advanced Printing Software.

1.3.5 Software Requirements

The Advanced Printing Software is supported on any Alpha-based processor
running Tru64 UNIX Version 5.1B or higher.

In most cases you can view the `/etc/motd` file to determine what version of
the operating system you are running. If this file has been edited and does

not contain the operating system version, you can verify the version you are running by executing the following command:

```
# /usr/sbin/sizer -v
```

If you have previously installed Advanced Printing Software Version 1.0, Version 1.01, or Version 1.1, you must begin the installation by deinstalling the older version. The deinstallation process preserves your configuration. When you install Version 1.2, your configuration (servers, printers, and so on) will be in a usable state.

1.3.6 Advanced Printing Software Subsets

The Advanced Printing Software is packaged in the following subsets:

- Advanced Printing Software BASE and Client Commands (APXBASE120)
- Advanced Printing Software Spooler and Supervisor (APXSVR120)
- Advanced Printing Software lpr/lpd Gateways (APXGW120)
- Advanced Printing Software Graphical User Interface (APXGUI120)
- Advanced Printing Software Administrator Utilities (APXADMIN120)

1.3.7 Disk Space Requirements

The following table lists the disk space requirements for loading and running the software subsets on a Tru64 UNIX system.

Subset	/ (root)	/usr
APXBASE120	0K	3.75 MB
APXSVR120	0K	1.2 MB
APXGW120	0K	.5 MB
APXGUI120	0K	6.8 MB
APXADMIN120	0K	2.1 MB

Refer to the disk space requirements table and total the values for each directory, then compare the space required for subsets with the free space currently on the disks where the Advanced Printing Software files will reside.

To determine the current amount of free space for a directory path, log in to the system where you will be installing the Advanced Printing Software software and enter the df command as follows:

```
% df -k /usr
```

This command produces output similar to the following:

```
Filesystem      kbytes    used     avail    capacity  Mounted on
/dev/rz0g       396703    328807   28225      92%        /usr
```

In this case the output indicates that there are 28225 kilobytes of free space on the file /usr system.

1.4 Installing a GUI Subset from an Unowned X Window Display

If you install or deinstall the APXGUI subset from a terminal or window that is not owned by the X session owner, the installation process installs files correctly, but it cannot integrate the GUI tools into the CDE environment. This occurs, for example, if you use the su command to become the root user from a terminal window belonging to a nonroot user. The install (or uninstall) process displays the following messages:

```
Xlib: connection to ":0.0" refused by server
Xlib: Client is not authorized to connect to Server
/usr/bin/X11/xprop:  unable to open display ':0.0'
usage:  /usr/bin/X11/xprop [-options ...] [[format [dformat]] atom]

where options include:
    -grammar                     print out full grammar for command line
    -display host:dpy            the X server to contact
    -id id                       resource id of window to examine
    -name name                   name of window to examine
    -font name                   name of font to examine
    -remove propname             name of property to remove
    -root                        examine the root window
    -len n                       display at most n bytes of any property
    -notype                      do not display the type field
    -fs filename                 where to look for formats for properties
    -frame                       don't ignore window manager frames
    -f propname format [dformat] formats to use for property of given name
    -spy                         examine window properties forever
This procedure was not able to refresh your current
X session.  In order for the Advanced Printing Software
GUIs to run properly, please do one of the following:

    1.  Log out and back in again to CDE
    2.  Using the Application Manager, issue the
        ReloadApps command
    3.  From a terminal window, while logged in as
        the user who owns the current CDE session
        (not su-ed to another user), issue the command
```

```
/usr/dt/bin/dtaction ReloadApps
```

Follow one of the steps listed in the message to complete the integration of
the Advanced Printing GUI tools into your CDE environment. To avoid this
situation, log in to a CDE environment as the root user before installing
the APXGUI subset.

1.5 Stopping the Installation

You can stop the installation at any time by pressing Ctrl/C. However, files
installed up to that point are not deleted. You must delete each Advanced
Printing Software file manually. Appendix B lists the files that are installed
during the Advanced Printing Software installation procedure.

1.6 Deleting Subsets

After installing the Advanced Printing Software, you can delete subsets by
using the `setld` command with the `-d` option. For example, to delete the
APXGUI110 subset use the following command:

```
# setld -d APXGUI110
```

If you stop this procedure before it is completed, you will have to manually
delete all of the files that have been installed. Appendix B lists the files that
are installed during the Advanced Printing Software installation procedure.

1.6.1 Removing Spool Directories

When you remove the Advanced Printing Software from your system
(by using `setld -d`), the directory `/var/spool/pd` and any files and
subdirectories contained within it are not deleted.

The spool directories are left in place to prevent the loss of any job data
that had not yet been printed at the time the kit was removed. This is
particularly necessary during an upgrade, where the system administrator
must remove the current kit, then install a new kit.

If, however, the print system is being removed from the system permanently
(for example, printing is being transferred to a different host), then these
directories are no longer needed. The system administrator should ensure
that no important print job data remains in the directories, at which time
the `/var/spool/pd` directories can be safely removed.

1.7 Upgrading Advanced Printing Software

Upgrading from a previous release of Advanced Printing Software requires
that you shut down its services, remove the old version, install the new

version, and restart it. A rolling upgrade of Advanced Printing Software is not supported. You can run only one version of Advanced Printing Software on a host or TruCluster at a time. However, the lpd printing software continues to function, uninterrupted, while you upgrade the Advanced Printing Software.

To minimize print services down time, ensure that you have the new software distribution mounted and ready to load.

1.7.1 Upgrading on a TruCluster System

To upgrade on a TruCluster System:

1. Shutdown the Advanced Printing application resources controlled by the CAA (Cluster Application Availability) subsystem. These may include the apx-default resource as well as other resources you have created.

    a. List the CAA application resources:

    ```
    # caa_stat -t
    Name           Type         Target    State      Host
    ----------------------------------------------------------------
    apx-default    application  ONLINE    ONLINE     daffy
    apx_d1         application  ONLINE    ONLINE     bugs
    apx_d2         application  ONLINE    ONLINE     droopy
    apd_d3         application  ONLINE    ONLINE     bugs
    cluster_lockd  application  ONLINE    ONLINE     bugs
    dhcp           application  OFFLINE   OFFLINE
    named          application  OFFLINE   OFFLINE
    ```

    b. Stop the resources associated with the Advanced Printing Software by stopping the printing services they provide:

    ```
    # caa_stop apx-default apx_d1 apx_d2 apx_d3
    Attempting to stop 'apx-default on member 'daffy'
    Stop of 'apx-default' on member 'daffy' succeeded.
    Attempting to stop 'apx_d1' on member 'bugs'
    Stop of 'apx_d1' on member 'bugs' succeeded.
    Attempting to stop 'apx_d2' on member 'droopy'
    Stop of 'apx_d2' on member 'droopy' succedded.'
    Attempting to stop 'apx_d3' on member 'bugs'
    Stop of 'apx_d3' on member 'bugs' succeeded.
    ```

    Use the caa_stop command with the -f option to force a resource to the OFFLINE state if the caa_stop command was not successful.

    c. Run the /sbin/init.d/apx stop command on each cluster member to stop remaining daemons:

    On member 0:

    ```
    # /sbin/init.d/apx stop
    Stopping Advanced Printing Software Inbound Gateway daemon 603983
    Stopping Advanced Printing Software Notification Server daemon 642760
    Advanced Printing Software Protoserver daemon not running
    ```

    On member 1:

```
# /sbin/init.d/apx stop
Stopping Advanced Printing Software Inbound Gateway daemon 1675930
Advanced Printing Software Protoserver daemon not running
```

Repeat for any remaining cluster members.

2. Delete the old software subsets:

   a. List the installed Advanced Printing Software subsets:

   ```
   # setld -i | grep ^APX | grep installed | grep -v 'not installed'
   APXADMIN110 installed Advanced Pritning Software Administrator Utilities
   APXBASE110  installed Advanced Printing Software BASE and Client Commands
   APXGUI110   installed Advanced Printing Software Graphical User Interface
   APXGW110    installed Advanced Printing Software lpr/lpd Gateway
   APXSVR110   installed Advanced Printing Software Spooler and Supervisor
   ```

   b. Delete the old subsets:

   ```
   # setld -d APXADMIN110 APXBASE110 APXGUI110 APXGW110 APXSVR110
   ```

   The deinstallation process automatically saves your print system
   database in /var/opt/APXsavedata.tar. The database is
   automatically restored when you install the new software version.

3. Install the new subsets. You can perform this step on any of your cluster
   hosts. Refer to Chapter 2 for information on installing subsets. Choose
   the subsets appropriate for the host mahcine and your environment.

4. Restart the printing daemons on each cluster member:

   On member 0:

   ```
   # /sbin/init.d/apx start
   Starting Advanced Printing Software Inbound Gateway daemon
   ```

   On member 1:

   ```
   # /sbin/init.d/apx start
   Starting Advanced Printing Software Inbound Gateway daemon
   ```

   Continue until all of the printing daemons are running.

5. Restart CAA resources:

   ```
   # caa_start apx-default on member 'daffy'
   Attempting to start 'apx-default' on member 'daffy'
   Start of 'apx-default' on member 'daffy' succeeded.
   # caa_start apx_d1 on member 'droopy'
   Attempting to start 'apx_d1' on member 'droopy'
   Start of 'apx_d1' on member 'droopy' succeeded.
   # caa_start apx_d2 on member 'bugs'
   Attempting to start 'apx_d2' on member 'bugs'
   Start of 'apx_d2' on member 'bugs' succeeded.
   ```

   Continue until each application resource associated with Advanced
   Printing Software is running. When all of the resources have been
   started, printing services will be available in your environment.

2

Software Installation

This chapter provides a step-by-step description of the installation procedure. Before you start the installation procedure, be sure to read Chapter 1.

2.1 Starting the Installation Procedure

If you are installing the Advanced Printing Software from CD-ROM, start with Section 2.1.1.

If you are installing the New Hardware Support software from a RIS server, start with Section 2.1.2.

2.1.1 Using the Associated Products CD-ROM

If you are installing the software from the Associated Products CD-ROM Volume 2, start the installation procedure as follows:

1. Mount the media on the appropriate disc drive. See the documentation that came with your media for instructions on mounting CD-ROM media.

2. Log in as the root user on the system where you plan to install the software.

3. Enter the following command to ensure that you are at the root (/) directory:

   ```
   # cd /
   ```

4. Specify the /mnt directory to be the mount point for the distribution file system:

   ```
   # mount -r  -t cdfs /dev/rz1c /mnt (Version 5.0x)
   # mount -r  /dev/disk/cdrom0c /mnt (Version 5.0x)
   ```

5. Enter the setld command with the −l (load) option and specify the directory in the mounted file system where the subsets are located. For a Tru64 UNIX system, the directory location for Advanced Printing Software subsets is /mnt/Advanced_Printing/kit. For example, enter:

   ```
   # setld -l /mnt/Advanced_Printing/kit
   ```

See Section 2.2 and Section 2.3 to continue the installation.

2.1.2 Using Remote Installation Services (RIS)

If you are installing Advanced Printing Software from a RIS server, start the installation procedure as follows:

1. Log in as the root user on the system where you plan to install the software.

2. Enter the following command to ensure that you are at the root (/) directory:

    ```
    # cd /
    ```

3. Enter the `setld` command with the `-l` (load) function and specify the system where the subsets are located. For example, if you are loading Advanced Printing Software subsets from a RIS distribution area on node `bigsys`, enter the following command:

    ```
    # setld -l bigsys:
    ```

See Section 2.2 and Section 2.3 to continue the installation.

2.2 Installing Advanced Printing Software Server Software

The Advanced Printing Software server software consists of the following subsets:

*   APXBASE120 – command-line interface only. This subset is a required subset; the software will not function if it is not installed.

*   APXADMIN120 – command-line interface system administration utilities and components for creating and displaying object databases. This subset is installed if you want to use the command-line interface to manage the Advanced Printing Software environment.

*   APXGUI120 – `pdprint`, `pdprintadmin`, and `pdprintinfo` utilities that allow you to print and perform management functions using a graphical user interface

*   APXSVR120 – spooler and supervisor programs that need to be installed on the server systems.

*   APXGW120 – inbound and outbound gateways that allow users of legacy print applications (`lp` and `lpr` systems) to submit print requests to Advanced Printing Software output devices.

For server systems, the minimum system installation requires only the APXBASE120, APXSVR120, and APXADMIN120 subsets. The GUI subset is optional. The following example demonstrates how to install all of the server subsets.

After you enter the `setld` command, the installation procedure displays the names of the Advanced Printing Software subsets and directs you to select the subsets you want installed:

```
# setld -l /mnt/Advanced_Printing/kit
The subsets listed below are optional:

     There may be more optional subsets than can be presented on a single
     screen. If this is the case, you can choose subsets screen by screen
     or all at once on the last screen. All of the choices you make will
     be collected for your confirmation before any subsets are installed.

     1) Advanced Printing Software Administrator Utilities
     2) Advanced Printing Software BASE and Client Commands
     3) Advanced Printing Software Graphical User Interface
     4) Advanced Printing Software Spooler and Supervisor
     5) Advanced Printing Software lpr/lpd Gateways

Or you may choose one of the following options:

     6) ALL of the above
     7) CANCEL selections and redisplay menus
     8) EXIT without installing any subsets

Enter your choices or press RETURN to redisplay menus.
Choices (for example, 1 2 4-6): 6
```

If you specify more than one number at the prompt, separate each number with a space. You can specify a range of numbers by entering the starting and ending numbers with a hyphen between them.

In the next step, the `setld` script asks you to verify your choice of subsets to install:

```
You are installing the following optional subsets:

        Advanced Printing Software Administrator Utilities
        Advanced Printing Software BASE and Client Commands
        Advanced Printing Software Graphical User Interface
        Advanced Printing Software Spooler and Supervisor
        Advanced Printing Software lpr/lpd Gateways

Is this correct? (y/n): y
```

If the displayed subsets are not the ones you want to load, enter n; the subset selection menu will be redisplayed. When the displayed subsets are the ones you want loaded, enter y. There is no further user interaction required to complete this installation procedure.

Appendix A provides a sample listing of the full installation procedure.

The *Advanced Printing Software System Administration and Operation Guide* describes how to configure servers, printers, and gateways.

2.3 Installing Advanced Printing Software Client Software

The Advanced Printing Software client software allows end users to print and monitor jobs. It consists of the following subsets:

- APXBASE120 — command-line interface utilities.
- APXGUI120 — `pdprint`, `pdprintadmin`, and `pdprintinfo` utilities that allow users to print jobs and monitor print jobs and devices.

For client systems, the minimum system installation requires only the APXBASE120 subset. The APXGUI120 subset is optional. The following installation demonstrates how to install both of these client subsets.

After you enter the `setld` command, the installation procedure displays the names of the Advanced Printing Software subsets and directs you to select the subsets you want installed:

```
# setld -l /mnt/Advanced_Printing/kitThe subsets
listed below are optional:

    There may be more optional subsets than can be presented on a single
    screen. If this is the case, you can choose subsets screen by screen
    or all at once on the last screen. All of the choices you make will
    be collected for your confirmation before any subsets are installed.

    1) Advanced Printing Software Administrator Utilities
    2) Advanced Printing Software BASE and Client Commands
    3) Advanced Printing Software Graphical User Interface
    4) Advanced Printing Software Spooler and Supervisor
    5) Advanced Printing Software lpr/lpd Gateways

Or you may choose one of the following options:

    6) ALL of the above
    7) CANCEL selections and redisplay menus
    8) EXIT without installing any subsets

Enter your choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6): 2 3
```

If you specify more than one number at the prompt, separate each number with a space.

In the next step, the `setld` script asks you to verify your choice of subsets to install:

```
You are installing the following optional subsets

        Advanced Printing Software BASE and Client Commands
        Advanced Printing Software Graphical User Interface
```

```
Is this correct? (y/n): y
```

If the displayed subsets are not the ones you want to load, enter n; the subset selection menu will be redisplayed. When the displayed subsets are the ones you want loaded, enter y. There is no further user interaction required to complete this installation procedure.

Appendix A provides a sample listing of the full installation procedure.

2.4 Installing Advanced Printing Software in a Dataless Environment

For the Advanced Printing System GUI clients to function properly in a dataless environment, the system administrator must issue the following command on each dataless client system for which the GUI clients are installed:

```
# dtappintegrate -s /usr/pd
```

If any Advanced Printing Software servers (supervisors or spoolers) are run on the client system, the administrator must also issue the following command:

```
# /sbin/init.d/apx start
```

2.5 Removing Advanced Printing Software Subsets in a Dataless Environment

It is important that the following steps be performed on the dataless client system prior to removing the Advanced Printing Software subsets from the dataless server system:

1. Unintegrate the Advanced Printing Software GUIs from CDE using the following command:

   ```
   # dtappintegrate -s /usr/pd -u
   ```

2. Ensure that Advanced Printing Software servers are stopped using the following command:

   ```
   # /sbin/init.d/apx stop
   ```

A

Sample Listings of the Installation

This appendix provides sample listings of a server installation and a client installation.

A.1 Sample Server Installation

The subsets listed below are optional:

> There may be more optional subsets than can be presented on a single
> screen. If this is the case, you can choose subsets screen by screen
> or all at once on the last screen. All of the choices you make will
> be collected for your confirmation before any subsets are installed.

>   1) Advanced Printing Software Administrator Utilities
>   2) Advanced Printing Software BASE and Client Commands
>   3) Advanced Printing Software Graphical User Interface
>   4) Advanced Printing Software Spooler and Supervisor
>   5) Advanced Printing Software lpr/lpd Gateways

Or you may choose one of the following options:

>   6) ALL of the above
>   7) CANCEL selections and redisplay menus
>   8) EXIT without installing any subsets

Enter your choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6): 6

You are installing the following optional subsets:

>   Advanced Printing Software Administrator Utilities
>   Advanced Printing Software BASE and Client Commands
>   Advanced Printing Software Graphical User Interface
>   Advanced Printing Software Spooler and Supervisor
>   Advanced Printing Software lpr/lpd Gateways

Is this correct? (y/n): y
Checking file system space required to install selected subsets:
File system space checked OK.
5 subset(s) will be installed.
Loading 1 of 5 subset(s)....
Advanced Printing Software BASE and Client Commands
  Copying from . (disk)
  Verifying
Loading 2 of 5 subset(s)....
Advanced Printing Software Administrator Utilities
  Copying from . (disk)

```
      Verifying
Loading 3 of 5 subset(s)....
Advanced Printing Software Spooler and Supervisor
   Copying from . (disk)
   Verifying
Loading 4 of 5 subset(s)....
Advanced Printing Software Graphical User Interface
   Copying from . (disk)
      Working....Thu Jun 29 16:24:32 EST 2002
   Verifying
Loading 5 of 5 subset(s)....
Advanced Printing Software lpr/lpd Gateways
   Copying from . (disk)
   Verifying
5 of 5 subset(s) installed successfully.

*****************************************************************
* Please refer to the file /usr/pd/README.txt for information            *
* about  configuring and using this product.                            *
*****************************************************************

 APXBASE120 software installed successfully.
Configuring "Advanced Printing Software BASE and Client Commands" (APXBASE120)
APXADMIN120 software installed successfully.
Configuring "Advanced Printing Software Administrator Utilities" (APXADMIN120)
Adding entries to /etc/inetd.conf for Advanced Printing Software utilities.
Editing /etc/inetd.conf...
APXSVR120 software installed successfully.
Configuring "Advanced Printing Software Spooler and Supervisor" (APXSVR120)
APXGUI120 software installed successfully.
Configuring "Advanced Printing Software Graphical User Interface" (APXGUI120)
Integrating Advanced Printing Software GUI applications...
APXGW120 software installed successfully.
Configuring "Advanced Printing Software lpr/lpd Gateways" (APXGW120)
#
```

A.2 Sample Client Installation

```
# The subsets listed below are optional:
  There may be more optional subsets than can be presented on a single
   screen. If this is the case, you can choose subsets screen by screen
     or all at once on the last screen. All of the choices you make will
     be collected for your confirmation before any subsets are installed.
     1) Advanced Printing Software Administrator Utilities
     2) Advanced Printing Software BASE and Client Commands
     3) Advanced Printing Software Graphical User Interface
     4) Advanced Printing Software Spooler and Supervisor
     5) Advanced Printing Software lpr/lpd Gateways

Or you may choose one of the following options:

     6) ALL of the above
     7) CANCEL selections and redisplay menus
     8) EXIT without installing any subsets

Enter your choices or press RETURN to redisplay menus.
```

Choices (for example, 1 2 4-6): 2 3
You are installing the following optional subsets:

    Advanced Printing Software BASE and Client Commands
    Advanced Printing Software Graphical User Interface

Is this correct? (y/n): y
Checking file system space required to install selected subsets:
File system space checked OK.
2 subset(s) will be installed.
Loading 1 of 2 subset(s)....
Advanced Printing Software BASE and Client Commands
  Copying from . (disk)
  Verifying
Loading 2 of 2 subset(s)....
Advanced Printing Software Graphical User Interface
  Copying from . (disk)
    Working....Thu Jun 29 16:32:48 EST 2002
  Verifying
2 of 2 subset(s) installed successfully.

```
*****************************************************************
* Please refer to the file /usr/pd/README.txt for information          *
* about  configuring and using this product.                          *
*****************************************************************
```
APXBASE120 software installed successfully.
Configuring "Advanced Printing Software BASE and Client Commands" (APXBASE120)
APXGUI120 software installed successfully.
Configuring "Advanced Printing Software Graphical User Interface" (APXGUI120)
Integrating Advanced Printing Software GUI applications...
#

B

Files Installed on Your System

This appendix list the files that are installed on your system during an Advanced Printing Software installation. Each section is organized so that it lists the files installed when installing the specified subset.

B.1 APXADMIN120

/usr/opt/APX120/cluster/apx_caa_map.template
/usr/opt/APX120/cluster/apx_caa_setup
/usr/opt/APX120/cluster/apx_profile.template
/usr/opt/APX120/cluster/apx_script.template
/usr/opt/APX120/examples/list_filter.sh
/usr/opt/APX120/examples/pdf-setup.txt
/usr/opt/APX120/examples/pdf_psps.sh
/usr/opt/APX120/lib/libpdinfra.so
/usr/opt/APX120/lib/libpdsvr.so
/usr/opt/APX120/lib/nls/msg/C/pdmakedb.cat
/usr/opt/APX120/lib/nls/msg/C/pdmoddb.cat
/usr/opt/APX120/lib/nls/msg/C/pdshowdb.cat
/usr/opt/APX120/lib/nls/msg/C/pdspvr.cat
/usr/opt/APX120/sbin/pdclean
/usr/opt/APX120/sbin/pdcreate
/usr/opt/APX120/sbin/pddelete
/usr/opt/APX120/sbin/pddisable
/usr/opt/APX120/sbin/pdenable
/usr/opt/APX120/sbin/pdldappw
/usr/opt/APX120/sbin/pdmakedb
/usr/opt/APX120/sbin/pdmoddb
/usr/opt/APX120/sbin/pdpromote
/usr/opt/APX120/sbin/pdshowdb
/usr/opt/APX120/sbin/pdshutdown
/usr/opt/APX120/sbin/rpc.pts
/usr/opt/APX120/scripts/APXADMIN.postinstall
/usr/opt/APX120/scripts/Makefile.printers
/usr/opt/APX120/scripts/pd_get_started
/usr/opt/APX120/share/cap/Compaq_LG_Series_ANSI.paf
/usr/opt/APX120/share/cap/Compaq_LN16_PS.paf
/usr/opt/APX120/share/cap/Compaq_LN32_PS.paf
/usr/opt/APX120/share/cap/Compaq_LNM40_PS.paf
/usr/opt/APX120/share/cap/Digital_Colorwriter_LSR_2000_Level2PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser1150_Level1PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser1152_Level2PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser2150_Level1PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser2250_Level1PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser3250_Level1PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser3500_Level2PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser3500_PCL5.paf

/usr/opt/APX120/share/cap/Digital_DEClaser5100_Level2PS.paf
/usr/opt/APX120/share/cap/Digital_DEClaser5100_PCL5.paf
/usr/opt/APX120/share/cap/Digital_LA75.paf
/usr/opt/APX120/share/cap/Digital_LG04.paf
/usr/opt/APX120/share/cap/Digital_LG08.paf
/usr/opt/APX120/share/cap/Digital_LG12.paf
/usr/opt/APX120/share/cap/Digital_LG_Series_ANSI.paf
/usr/opt/APX120/share/cap/Digital_LN03R_Level1PS.paf
/usr/opt/APX120/share/cap/Digital_LN17_Level2PS.paf
/usr/opt/APX120/share/cap/Digital_LN17_PCL5.paf
/usr/opt/APX120/share/cap/Digital_LN20_PS.paf
/usr/opt/APX120/share/cap/Digital_LN40_PS.paf
/usr/opt/APX120/share/cap/Digital_PrintServer17_Level2PS.paf
/usr/opt/APX120/share/cap/Digital_PrintServer20_Level2PS.paf
/usr/opt/APX120/share/cap/Digital_PrintServer32_Level2PS.paf
/usr/opt/APX120/share/cap/Generic_ANSI.paf
/usr/opt/APX120/share/cap/Generic_HPGL_Plotter.paf
/usr/opt/APX120/share/cap/Generic_Level1PS.paf
/usr/opt/APX120/share/cap/Generic_Level2PS.paf
/usr/opt/APX120/share/cap/Generic_PCL.paf
/usr/opt/APX120/share/cap/Genicom_LA36.paf
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/usr/opt/APX120/share/cap/Genicom_LN45_PS.paf
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/usr/opt/APX120/share/cap/Lexmark_C910_PS.paf
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/usr/opt/APX120/share/cap/Lexmark_Forms_4227plus.paf
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/usr/opt/APX120/share/cap/Lexmark_OptraC_PCL5.paf
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/usr/opt/APX120/share/cap/Lexmark_W820_PS.paf
/usr/opt/APX120/share/cap/Ricoh_AP2100_PS.paf
/usr/opt/APX120/share/cap/SUN_SPARCprinterE_Level2PS.paf
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/usr/opt/APX120/share/cap/Xerox_4510_PCL5.paf
/usr/opt/APX120/share/cap/Xerox_4517_Level2PS.paf
/usr/opt/APX120/share/cap/Xerox_4517_PCL5.paf
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/usr/opt/APX120/share/cap/Xerox_4700II_Level1PS.paf
/usr/opt/APX120/share/cap/Xerox_4700II_PCL5.paf
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/usr/opt/APX120/share/cap/Xerox_DocuPrint4050NPS.paf
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/usr/opt/APX120/share/cap/Xerox_DocuPrint4635NPS.paf
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/usr/opt/APX120/share/cap/Xerox_DocuPrintN2025_PS.paf
/usr/opt/APX120/share/cap/Xerox_DocuPrintN2125_PS.paf
/usr/opt/APX120/share/cap/Xerox_DocuPrintN24_Level2PS.paf
/usr/opt/APX120/share/cap/Xerox_DocuPrintN3225_PS.paf
/usr/opt/APX120/share/cap/Xerox_DocuPrintN32_Level2PS.paf
/usr/opt/APX120/share/cap/Xerox_DocuPrintN40_Level2PS.paf
/usr/opt/APX120/share/cap/Xerox_DocuTech6135.paf
/usr/opt/APX120/share/cap/Xerox_Document_Centre_432ST_PS.paf
/usr/opt/APX120/share/cap/Xerox_Document_Centre_470ST_PS.paf
/usr/opt/APX120/share/data/charset.dat
/usr/opt/APX120/share/man/man8/pdclean.8
/usr/opt/APX120/share/man/man8/pdcreate.8
/usr/opt/APX120/share/man/man8/pddelete.8
/usr/opt/APX120/share/man/man8/pddisable.8
/usr/opt/APX120/share/man/man8/pdenable.8
/usr/opt/APX120/share/man/man8/pdldappw.8
/usr/opt/APX120/share/man/man8/pdmakedb.8
/usr/opt/APX120/share/man/man8/pdmoddb.8
/usr/opt/APX120/share/man/man8/pdpromote.8
/usr/opt/APX120/share/man/man8/pdshowdb.8
/usr/opt/APX120/share/man/man8/pdshutdown.8
/usr/opt/APX120/share/odb/lldb.d00
/usr/opt/APX120/share/odb/lldb.d01
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/usr/opt/APX120/share/odb/lldb.d06
/usr/opt/APX120/share/odb/lldb.d07
/usr/opt/APX120/share/odb/lldb.d08
/usr/opt/APX120/share/odb/lldb.d09
/usr/opt/APX120/share/odb/lldb.d10
/usr/opt/APX120/share/odb/lldb.d11
/usr/opt/APX120/share/odb/lldb.d12
/usr/opt/APX120/share/odb/lldb.dbd

B.2 APXBASE120

/usr/opt/APX120
/usr/opt/APX120/README.txt
/usr/opt/APX120/bin
/usr/opt/APX120/bin/pdls
/usr/opt/APX120/bin/pdmod
/usr/opt/APX120/bin/pdpause
/usr/opt/APX120/bin/pdpr
/usr/opt/APX120/bin/pdq
/usr/opt/APX120/bin/pdresubmit
/usr/opt/APX120/bin/pdresume
/usr/opt/APX120/bin/pdrm

/usr/opt/APX120/bin/pdset
/usr/opt/APX120/cluster
/usr/opt/APX120/dt
/usr/opt/APX120/dt/app-defaults
/usr/opt/APX120/dt/app-defaults/C
/usr/opt/APX120/dt/appconfig
/usr/opt/APX120/dt/appconfig/appmanager
/usr/opt/APX120/dt/appconfig/appmanager/C
/usr/opt/APX120/dt/appconfig/appmanager/C/Advanced_Printing
/usr/opt/APX120/dt/appconfig/help
/usr/opt/APX120/dt/appconfig/help/C
/usr/opt/APX120/dt/appconfig/help/C/graphics
/usr/opt/APX120/dt/appconfig/icons
/usr/opt/APX120/dt/appconfig/icons/C
/usr/opt/APX120/dt/appconfig/types
/usr/opt/APX120/dt/appconfig/types/C
/usr/opt/APX120/examples
/usr/opt/APX120/lib
/usr/opt/APX120/lib/libdpapi.so
/usr/opt/APX120/lib/libpdcore.so
/usr/opt/APX120/lib/nls
/usr/opt/APX120/lib/nls/msg
/usr/opt/APX120/lib/nls/msg/C
/usr/opt/APX120/lib/nls/msg/C/dpaapi.cat
/usr/opt/APX120/lib/nls/msg/C/pdguicommon.cat
/usr/opt/APX120/lib/nls/msg/C/pdntfs.cat
/usr/opt/APX120/lib/nls/msg/C/pdpr.cat
/usr/opt/APX120/lib/pdconntf
/usr/opt/APX120/lib/pdntfs
/usr/opt/APX120/sbin
/usr/opt/APX120/scripts
/usr/opt/APX120/scripts/APXBASE.postinstall
/usr/opt/APX120/scripts/apx.init
/usr/opt/APX120/scripts/apx_common.sh
/usr/opt/APX120/share
/usr/opt/APX120/share/cap
/usr/opt/APX120/share/data
/usr/opt/APX120/share/include
/usr/opt/APX120/share/man
/usr/opt/APX120/share/man/man1
/usr/opt/APX120/share/man/man1/pdconntf.1
/usr/opt/APX120/share/man/man1/pdls.1
/usr/opt/APX120/share/man/man1/pdmod.1
/usr/opt/APX120/share/man/man1/pdpause.1
/usr/opt/APX120/share/man/man1/pdpr.1
/usr/opt/APX120/share/man/man1/pdq.1
/usr/opt/APX120/share/man/man1/pdresubmit.1
/usr/opt/APX120/share/man/man1/pdresume.1
/usr/opt/APX120/share/man/man1/pdrm.1
/usr/opt/APX120/share/man/man1/pdset.1
/usr/opt/APX120/share/man/man8
/usr/opt/APX120/share/messages
/usr/opt/APX120/share/messages/default
/usr/opt/APX120/share/odb
/usr/opt/APX120/share/oid
/usr/opt/APX120/share/oid/DPAOIDs.dbm

/usr/opt/APX120/share/oid/DPAOIDs_C.dbm
/usr/opt/APX120/share/oid/DPAOIDs_l.dbm
/usr/opt/APX120/share/prologues
/usr/opt/APX120/share/sms
/usr/opt/APX120/share/sms/apxbase.smo
/var/opt
/var/opt/APX120
/var/opt/APX120/config
/var/opt/APX120/odb
/var/opt/APX120/pts

B.3 APXGUI120

/usr/opt/APX120/bin/pdprint
/usr/opt/APX120/bin/pdprintadmin
/usr/opt/APX120/bin/pdprintinfo
/usr/opt/APX120/dt/app-defaults/C/Pdprint
/usr/opt/APX120/dt/app-defaults/C/Pdprintadmin
/usr/opt/APX120/dt/app-defaults/C/Pdprintinfo
/usr/opt/APX120/dt/appconfig/help/C/graphics/add-dev1.tif
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/usr/opt/APX120/share/sms/apxgui.smo

B.4 APXGW120

/usr/opt/APX120/lib/bsd_dpa.so
/usr/opt/APX120/lib/pdspvlpr
/usr/opt/APX120/sbin/in.bsd-gw
/usr/opt/APX120/scripts/inbound_gw_config.sh
/usr/opt/APX120/share/man/man8/pdspvlpr.8

B.5 APXSVR120

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