**VXT Software**

**Appendixes**

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# VXT Software:

# Appendixes

**January, 1994**

This section contains appendixes, a glossary, and a master index.

**Software Version:** VXT Version 2.1

**Digital Equipment Corporation**
**Maynard, Massachusetts**

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# A

# Booting Information

This appendix describes the following topics:

- Entering Boot Commands from the Console Prompt
- Clearing Nonvolatile RAM (NVR)
- Rebooting the Terminal
- Booting Error Codes

## A.1 Entering Boot Commands from the Console Prompt

You can use a BOOT command to load a specific VXT software image into an individual terminal. You enter the command at the terminal's >>> prompt. You can use this method to evaluate a new VXT software version before making it the network default for all terminals.

To display the >>> prompt, you must halt the terminal.

**Caution**

Halting the terminal closes any currently open sessions.

**Displaying the >>> Prompt**

Quickly press and release the halt button on the rear of the VXT 2000 windowing terminal. The terminal halts all activity and displays a >>> prompt.

- For terminals with a system box: The halt button is next to the indicator lights on the rear of the system box.
- For terminals without a system box: The halt button is below the keyboard connector on the rear of the monitor.

**Getting Help on Console Commands**

To see a list of commands, enter the Help command at the >>> prompt:

```
>>> Help
```

**Booting VXT Software from the >>> Prompt**

Use the following command sequences to boot VXT software from the terminal's >>> prompt.

**Note**

To prepare VT1300 terminals for server-based operation, see the *VXT Software on OpenVMS Systems* section of this guide.

**VXT Version 2.1 Software**

*Server-Based Mode*

```
>>> B/101
Bootfile:  VXTLDR
VXTLDR>  VXT.SYS
```

*Host-Based Mode*

For host-based mode, the terminal needs 10 megabytes of memory.

```
>>> B/100
Bootfile:  VXT
```

**VXT EX Version 2.0 Software**

*Server-Based Mode*

```
>>> B/101
Bootfile:  VXTLDR
VXTLDR>  VXTEX.SYS
```

*Host-Based Mode*

```
>>> B/100
Bootfile:  VXTEX
```

You can also use the terminal's Customize Boot dialog box to load a particular version of VXT software. For information on using the Customize Boot dialog box, see *VXT 2000+/VXT 2000 Windowing Terminal User Information*.

## A.2 Clearing Nonvolatile RAM (NVR)

**Resetting the Terminal**

You can use the T/UTIL 1 command to reset the terminal's nonvolatile RAM to the factory-default settings and allow automatic loading of VXT software:

**Caution**

When you reset the terminal to its factory-default settings, you lose your customized settings.

```
>>> T/UTIL 1 Return
```

**Clearing the Current Booting Method**

When you boot the terminal successfully, it saves a record of the successful booting method used. When you reboot the terminal, it tries using this saved method first. You can clear this saved state while booting the terminal.

```
>>> B/10000 Return
```

## A.3 Rebooting the Terminal

Use one of the following methods to reboot your terminal:

- Click on the Session menu in the Terminal Manager window and choose the Reboot menu item.
- Press one of the following key sequences:

| | |
|---|---|
| ANSI (LK401) keyboard | Press Ctrl Alt . , using the left Alt key and the period key on the numeric keypad. |
| PC (LK443/LK444) keyboard | Press Ctrl Alt . , using the period key on the numeric keypad. |
| Short ANSI (LK421) keyboard | Press Ctrl Alt Extend . . |
| Sun style (LK460) keyboard | Press Ctrl ◇ Del. |

## A.4 Booting Error Codes

Table A–1 describes some common boot error messages. For more information on error codes, see the problem solving section in *VXT 2000+/VXT 2000 Windowing Terminal User Information* and the service guide for your terminal.

**Table A–1 Booting Error Messages**

| Message | Reason |
|---|---|
| ?MOP 1 | Transmit error. MOP was unable to transmit due to a network problem. |
| ?MOP 255 | Not enough space in memory to load the image. |
| ?IP 2 | An ICMP Protocol Unreachable message was received. The TFTP host listed in the BOOTP response does not understand the user datagram protocol (UDP) that TFTP runs over. The IP download stops. |
| ?IP 3 | An ICMP Port Unreachable message was received. The remote TFTP daemon has either never been started or is not running on the load host. The IP download stops. |
| ?TFTP 1 | A TFTP error message was received while sending a TFTP Read Request packet. The TFTP load stops. This error usually means a file was not found or you do not have access to the file. |
| ?TFTP 3 | A TFTP error message was received while sending a TFTP Acknowledgment packet. The TFTP load stops. |
| ?TFTP 5 | A TFTP error message was received while sending a TFTP Error packet. The TFTP load stops. |
| ?TFTP 255 | Not enough space in memory to load the image. |

# B

# VXT Software Files Installed on UNIX, ULTRIX, and DEC OSF/1 AXP Systems

This appendix lists the files installed on your UNIX, ULTRIX, and DEC OSF/1 AXP systems as part of the VXT software installation procedure. Files are listed by subkit.

- VXT Image Files and Resource Template File
- VXT BOOTP Daemon
- VXT Application Launcher
- VXT Printer Support Utilities
- X Font Utilities
- Compiled Fonts
  - –75 dots/in
  - –100 dots/in
  - –Miscellaneous
- Converting Sun Fonts for the VXT System

After the installation, the following seven relevant files are in your working directory:

| File | Description |
|---|---|
| install.flist | The list of all files installed on your system as part of the VXT software installation. |
| install.log | The installation log file. |
| rm-vxt-kit | A script that lets you remove this VXT software version from your system, when upgrading or adding new versions. Move this script to a safe place for possible future use.<br><br>Digital suggests that you always replace old fonts with new fonts to support new applications. You must run `rm-vxt-kit` to delete old font files. You must use an empty directory. |
| RelNotes.txt | *VXT Software Version 2.1 Release Notes* in text format. |
| vxtivp | Installation verification procedure. |
| vxtpostinstall | Postinstallation checklist. |
| isrd | Utility used by `vxtivp`. |

## B.1 VXT Image Files and Resource Template File

The following tables list the contents of the VXT system images subkit:

**Directory**: `/usr/tftpboot/vxt/images`

**Mode**: 444

| File Names | Description |
|---|---|
| vxtldr | VXT loader file |
| vxtldr1 | Link to VXT loader file |
| VXT | VXT software |
| vxtex | VXT EX software |

**Directory**: `/usr/tftpboot/vxt/config`

**Mode**: 444

| File Names | Description |
|---|---|
| vxtcfgtmpl.xrm | Host-based resource template file |

## B.2 VXT BOOTP Daemon

The following table lists the contents of the VXT BOOTP subkit:

**Directory:** `/usr/local/etc`

**Mode:** 755

| File Name | Description |
|---|---|
| bootpd | The VXT BOOTP daemon to provide BOOTP support |

## B.3 VXT Application Launcher

The following table list the contents of the VXT application launcher subkit:

**Directory:** `/usr/local/bin`

**Mode:** 755

| File Names | Description |
|---|---|
| app-launch | VXT application launcher file |

## B.4 VXT Printer Support Utilities

The following table list the contents of the VXT printer support utilities subkit:

**Directory:** `/usr/local/bin`

**Mode:** 755

| File Names | Description |
|---|---|
| README.vxtlpd | Text based information file on VXT printer support |
| vxtlpd | VXT printer support program |
| vxtlpd.1 | VXT printer support program man page |

## B.5 X Font Utilities

The following table lists the contents of the VXT X font utilities subkit:

**Directory:** `/usr/local/bin`

**Mode:** 755

| File Names | Description |
|---|---|
| bdftopcf | Converts a single font from BDF to PCF format. |
| mkfontdir | Creates a `fonts.dir` file from a directory of font files, during the installation. |
| mkvxtfonts | Converts one or more fonts at a time into PCF format for VXT 2000 windowing terminals. |
| instvxtfonts | Moves compiled fonts created by `mkfontdir` to a target directory and creates a `fonts.dir` file. |
| README.xbdfdmp | Provides information on using `xbdfdump`. |
| xbdfdump | Retrieves fonts in BDF format from a server. |
| xbdfdump.1 | `xbdfdump` man page. |
| properties.fmt | Data file for use with `xbdfdump`. |

**Directory:** `/usr/local/man/man1`

**Mode:** 444

| File Names | Description |
|---|---|
| bdftopcf.1 | These files are man pages of the files in `/usr/local/bin`. |
| mkvxtfonts.1 | |
| instvxtfonts.1 | |

## B.6 Compiled Fonts

The following table lists the contents of the 75 dpi fonts subkit, for 75 dots/in. resolution:

**Directory:** `/usr/tftpboot/vxt/fonts/75dpi`

**Mode:** 444

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| apltrm14.pcf | helvB10.pcf | lugrdO14.pcf | termBDt18.pcf |
| apltrm20.pcf | helvB12.pcf | lugrdO18.pcf | termBN10.pcf |
| apltrm28.pcf | helvB14.pcf | lugrdO24.pcf | termBN14.pcf |
| apltrmB10.pcf | helvB18.pcf | lugrdO8.pcf | termBN18.pcf |
| apltrmB14.pcf | helvB24.pcf | lutBS08.pcf | termBN20.pcf |
| apltrmB20.pcf | helvBO08.pcf | lutBS10.pcf | termBN28.pcf |
| apltrmB28.pcf | helvBO10.pcf | lutBS12.pcf | termBN36.pcf |
| apltrmBD10.pcf | helvBO12.pcf | lutBS14.pcf | termBNt10.pcf |
| apltrmBD14.pcf | helvBO14.pcf | lutBS18.pcf | termBNt14.pcf |
| apltrmBN10.pcf | helvBO18.pcf | lutBS19.pcf | termBNt18.pcf |
| apltrmBN14.pcf | helvBO24.pcf | lutBS24.pcf | termBNt20.pcf |
| apltrmBN20.pcf | helvO08.pcf | lutRS08.pcf | termBNt28.pcf |
| apltrmBN28.pcf | helvO10.pcf | lutRS10.pcf | termBNt36.pcf |
| apltrmBW10.pcf | helvO12.pcf | lutRS12.pcf | termBW10.pcf |
| apltrmBW14.pcf | helvO14.pcf | lutRS14.pcf | termBW14.pcf |
| apltrmD10.pcf | helvO18.pcf | lutRS18.pcf | termBW18.pcf |
| apltrmD14.pcf | helvO24.pcf | lutRS19.pcf | termBWt10.pcf |
| apltrmN10.pcf | helvR08.pcf | lutRS24.pcf | termBWt14.pcf |
| apltrmN14.pcf | helvR10.pcf | menu10.pcf | termBWt18.pcf |
| apltrmN20.pcf | helvR12.pcf | menu12.pcf | termBt10.pcf |
| apltrmN28.pcf | helvR14.pcf | ncenB08.pcf | termBt18.pcf |
| apltrmW10.pcf | helvR18.pcf | ncenB10.pcf | termBt20.pcf |
| apltrmW14.pcf | helvR24.pcf | ncenB12.pcf | termBt28.pcf |
| avgab10.pcf | idmI14.pcf | ncenB14.pcf | termBt36.pcf |
| avgab12.pcf | idme14.pcf | ncenB18.pcf | termD10.pcf |
| avgab14.pcf | idmsymb14.pcf | ncenB24.pcf | termD14.pcf |
| avgab18.pcf | luBIS08.pcf | ncenBI08.pcf | termD18.pcf |
| avgab24.pcf | luBIS10.pcf | ncenBI10.pcf | termDt10.pcf |
| avgab8.pcf | luBIS12.pcf | ncenBI12.pcf | termDt14.pcf |

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| avgabO10.pcf | luBIS14.pcf | ncenBI14.pcf | termDt18.pcf |
| avgabO12.pcf | luBIS18.pcf | ncenBI18.pcf | termN10.pcf |
| avgabO14.pcf | luBIS19.pcf | ncenBI24.pcf | termN14.pcf |
| avgabO18.pcf | luBIS24.pcf | ncenI08.pcf | termN18.pcf |
| avgabO24.pcf | luBS08.pcf | ncenI10.pcf | termN20.pcf |
| avgabO8.pcf | luBS10.pcf | ncenI12.pcf | termN28.pcf |
| avgad10.pcf | luBS12.pcf | ncenI14.pcf | termN36.pcf |
| avgad12.pcf | luBS14.pcf | ncenI18.pcf | termNt10.pcf |
| avgad14.pcf | luBS18.pcf | ncenI24.pcf | termNt14.pcf |
| avgad18.pcf | luBS19.pcf | ncenR08.pcf | termNt18.pcf |
| avgad24.pcf | luBS24.pcf | ncenR10.pcf | termNt20.pcf |
| avgad8.pcf | luIS08.pcf | ncenR12.pcf | termNt28.pcf |
| avgadO10.pcf | luIS10.pcf | ncenR14.pcf | termNt36.pcf |
| avgadO12.pcf | luIS12.pcf | ncenR18.pcf | termW10.pcf |
| avgadO14.pcf | luIS14.pcf | ncenR24.pcf | termW14.pcf |
| avgadO18.pcf | luIS18.pcf | presbull10.pcf | termW18.pcf |
| avgadO24.pcf | luIS19.pcf | presbull12.pcf | termtW10.pcf |
| avgadO8.pcf | luIS24.pcf | presbull14.pcf | termWt14.pcf |
| charB08.pcf | luRS08.pcf | presbull18.pcf | termWt18.pcf |
| charB10.pcf | luRS10.pcf | presbull12.pcf | termgs10.pcf |
| charB12.pcf | luRS12.pcf | presbull36.pcf | termgs14.pcf |
| charB14.pcf | luRS14.pcf | presbull48.pcf | termt10.pcf |
| charB18.pcf | luRS18.pcf | presbull72.pcf | termt18.pcf |
| charB24.pcf | luRS19.pcf | presbull8.pcf | termt20.pcf |
| charBI08.pcf | luRS24.pcf | souvd10.pcf | termt28.pcf |
| charBI10.pcf | lubB08.pcf | souvd12.pcf | termt36.pcf |
| charBI12.pcf | lubB10.pcf | souvd14.pcf | timB08.pcf |
| charBI14.pcf | lubB12.pcf | souvd18.pcf | timb10.pcf |
| charBI18.pcf | luB14.pcf | souvd24.pcf | timB12.pcf |
| charBI24.pcf | luB18.pcf | souvd8.pcf | timB14.pcf |
| charI08.pcf | lubB19.pcf | souvdI10.pcf | timB18.pcf |
| charI10.pcf | lubB24.pcf | souvdI12.pcf | timB24.pcf |
| charI12.pcf | lubBI08.pcf | souvdI14.pcf | timBI08.pcf |
| charI14.pcf | lubBI10.pcf | souvdI18.pcf | timBI10.pcf |

## VXT Software Files Installed on UNIX, ULTRIX, and DEC OSF/1 AXP Systems
## B.6 Compiled Fonts

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| charI18.pcf | lubBI12.pcf | souvdI24.pcf | timBI12.pcf |
| charI24.pcf | lubBI14.pcf | souvdI8.pcf | timBI14.pcf |
| charR08.pcf | lubBI18.pcf | souvl10.pcf | timBI18.pcf |
| charR10.pcf | lubBI19.pcf | souvl12.pcf | timBI24.pcf |
| charR12.pcf | lubBI24.pcf | souvl14.pcf | timI08.pcf |
| charR14.pcf | lubI08.pcf | souvl18.pcf | timI10.pcf |
| charR18.pcf | lubI10.pcf | souvl24.pcf | timI12.pcf |
| charR24.pcf | lubI12.pcf | souvl8.pcf | timI14.pcf |
| courB08.pcf | lubI14.pcf | souvlI10.pcf | timI18.pcf |
| courB10.pcf | lubI18.pcf | souvlI12.pcf | timI24.pcf |
| courB12.pcf | lubI19.pcf | souvlI14.pcf | timR08.pcf |
| courB14.pcf | lubI24.pcf | souvlI14.pcf | timR10.pcf |
| courB18.pcf | lubR08.pcf | souvlI24.pcf | timR12.pcf |
| courB24.pcf | lubR10.pcf | souvlI8.pcf | timR14.pcf |
| courBO08.pcf | lubR12.pcf | symb08.pcf | timR18.pcf |
| courBO10.pcf | lubR14.pcf | symb10.pcf | timR24.pcf |
| courBO12.pcf | lubR18.pcf | symb12.pcf | v33014.pcf |
| courBO14.pcf | lubR19.pcf | symb14.pcf | v33028.pcf |
| courBO18.pcf | lubR24.pcf | symb18.pcf | v330B14.pcf |
| courBO24.pcf | lugrb10.pcf | symb24.pcf | v330B28.pcf |
| courO08.pcf | lugrb12.pcf | tech14.pcf | v330BD14.pcf |
| courO10.pcf | lugrb14.pcf | term10.pcf | v330BDt14.pcf |
| courO12.pcf | lugrb18.pcf | term10.pcf | v330BN14.pcf |
| courO14.pcf | lugrb24.pcf | term14.pcf | v330BN28.pcf |
| courO18.pcf | lugrb8.pcf | term18.pcf | v330BNt14.pcf |
| courO24.pcf | lugrbO10.pcf | term20.pcf | v330BNt28.pcf |
| courR08.pcf | lugrbO12.pcf | term28.pcf | v330BW14.pcf |
| courR10.pcf | lugrbO14.pcf | term36.pcf | v330BWt14.pcf |
| courR12.pcf | lugrbO18.pcf | termB10.pcf | v330Bt14.pcf |
| courR14.pcf | lugrbO24.pcf | termB14.pcf | v330Bt28.pcf |
| courR18.pcf | lugrbO8.pcf | termB18.pcf | v330D14.pcf |
| courR24.pcf | lugrd10.pcf | termB20.pcf | v330Dt14.pcf |
| cursor.pcf | lugrd12.pcf | termB28.pcf | v330N14.pcf |
| decwcursor.pcf | lugrd14.pcf | termB36.pcf | v330N28.pcf |

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| decsess.pcf | lugrd18.pcf | termBD10.pcf | v330Nt14.pcf |
| fixed.pcf | lugrd24.pcf | termBD14.pcf | v33oNt28.pcf |
| fonts.alias | lugrd8.pcf | termBD18.pcf | v330W14.pcf |
| fonts.dir | lugrd8.pcf | termBDt10.pcf | v330Wt14.pcf |
| helvB08.pcf | lugrdO12.pcf | termBDt14.pcf | v330t14.pcf |
| | | | v330t28.pcf |
| | | | variable.pcf |

The following table lists the contents of the 100 dpi fonts subkit, for 100 dots/in. resolution:

**Directory:** `/usr/tftpboot/vxt/fonts/100dpi`

**Mode:** 444

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| apltrm14.pcf | decwsess.pcf | lugrbO8.pcf | termB14.pcf |
| apltrm18.pcf | fixed.pcf | lugrd10.pcf | termB18.pcf |
| apltrm28.pcf | font.alias | lugrd12.pcf | termB28.pcf |
| apltrm36.pcf | fonts.dir | lugrd14.pcf | termB36.pcf |
| apltrmB14.pcf | helvB08.pcf | lugrd18.pcf | termBD14.pcf |
| apltrmB18.pcf | helvB10.pcf | lugrd24.pcf | termBD18.pcf |
| apltrmB28.pcf | helvB12.pcf | lugrd8.pcf | termBDt14.pcf |
| apltrmB36.pcf | helvB14.pcf | lugrdO10.pcf | termBDt18.pcf |
| apltrmBD14.pcf | helvB18.pcf | lugrdO12.pcf | termBN14.pcf |
| apltrmBD18.pcf | helvB24.pcf | lugrdO14.pcf | termBN18.pcf |
| apltrmBN14.pcf | helvBO08.pcf | lugrdO18.pcf | termBN28.pcf |
| apltrmBN18.pcf | helvBO10.pcf | lugrdO24.pcf | termBN36.pcf |
| apltrmBN28.pcf | helvBO12.pcf | lugrdO8.pcf | termBNt14.pcf |
| apltrmBN36.pcf | helvBO14.pcf | lutBS08.pcf | termBNt18.pcf |
| apltrmBW14.pcf | helvBO18.pcf | lutBS10.pcf | termBNt28.pcf |
| apltrmBW18.pcf | helvBO24.pcf | lutBS12.pcf | termBNt36.pcf |
| apltrmD14.pcf | helvO08.pcf | lutBS14.pcf | termBW14.pcf |
| apltrmD18.pcf | helvO10.pcf | lutBS18.pcf | termBW18.pcf |
| apltrmN14.pcf | helvO12.pcf | lutBS19.pcf | termBWt14.pcf |
| apltrmN18.pcf | helvO14.pcf | lutBS24.pcf | termBWt18.pcf |

## VXT Software Files Installed on UNIX, ULTRIX, and DEC OSF/1 AXP Systems
## B.6 Compiled Fonts

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| apltrmN28.pcf | helvO18.pcf | lutRS08.pcf | termBt18.pcf |
| apltrmN36.pcf | helvO24.pcf | lutRs10.pcf | termBt28.pcf |
| apltrmW14.pcf | helvR08.pcf | lutRS12.pcf | termBt35.pcf |
| apltrmW18.pcf | helvR10.pcf | lutRS14.pcf | termD14.pcf |
| avgab10.pcf | helvR12.pcf | lutRS18.pcf | termD18.pcf |
| avgab12.pcf | helvR14.pcf | lutRS19.pcf | termDt14.pcf |
| avgab14.pcf | helvR18.pcf | lutRS24.pcf | termDt18.pcf |
| avgab18.pcf | helvR24.pcf | menu10.pcf | termN14.pcf |
| avgab24.pcf | idmI14.pcf | menu12.pcf | termN18.pcf |
| avgab8.pcf | idme14.pcf | ncenB08.pcf | termN28.pcf |
| avgabO10.pcf | idmsymb14.pcf | ncenB10.pcf | termN36.pcf |
| avgabO12.pcf | luBIS08.pcf | ncenB12.pcf | termNt14.pcf |
| avgabP14.pcf | luBIS10.pcf | ncenB14.pcf | termNt18.pcf |
| avgabO18.pcf | luBIS12.pcf | ncenB18.pcf | termNt28.pcf |
| avgabO24.pcf | luBIS14.pcf | ncenB24.pcf | termNt36.pcf |
| avgabO8.pcf | luBIS18.pcf | ncenBI08.pcf | termW14.pcf |
| avgad10.pcf | luBIS19.pcf | nceneBI10.pcf | termW18.pcf |
| avgad12.pcf | luBIS24.pcf | nceneBI12.pcf | termWt14.pcf |
| avgad14.pcf | luBS08.pcf | ncenBI14.pcf | termWt18.pcf |
| avgad18.pcf | luBS10.pcf | ncenBI18.pcf | tergs14.pcf |
| avgad24.pcf | luBS12.pcf | ncenBI24.pcf | termgs18.pcf |
| avgad8.pcf | luBS14.pcf | ncenI08.pcf | termt18.pcf |
| avgadO10.pcf | luBS18.pcf | ncenI10.pcf | termt28.pcf |
| avgadO12.pcf | luBS19.pcf | ncenI12.pcf | termt36.pcf |
| avgadO14.pcf | luBS24.pcf | ncenI14.pcf | timB08.pcf |
| avgadO18.pcf | luIS08.pcf | ncenI18.pcf | timB10.pcf |
| avgadO24.pcf | luIS10.pcf | ncenI24.pcf | timB12.pcf |
| avgadO8.pcf | luIS12.pcf | ncenR08.pcf | timB14.pcf |
| charB08.pcf | luIS14.pcf | ncenR10.pcf | timB18.pcf |
| chrB10.pcf | luIS18.pcf | ncenR12.pcf | timB24.pcf |
| charB12.pcf | luIS19.pcf | ncenR14.pcf | timBI08.pcf |
| charB14.pcf | luIS24.pcf | ncenR18.pcf | timBI10.pcf |
| charB18.pcf | luRS08.pcf | ncenR24.pcf | timBI12.pcf |
| charB24.pcf | luRS10.pcf | presbull10.pcf | timBI14.pcf |

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| charBI08.pcf | luRS12.pcf | presbull12.pcf | timBI18.pcf |
| charBI10.pcf | luRS14.pcf | presbull14.pcf | timBI24.pcf |
| charBI12.pcf | luRS18.pcf | presbull18.pcf | timI08.pcf |
| charBI14.pcf | luRS19.pcf | presbull24.pcf | timI10.pcf |
| charBI18.pcf | luRS24.pcf | presbull36.pcf | timI12.pcf |
| charBI24.pcf | lubB08.pcf | presbull48.pcf | timI14.pcf |
| charI08.pcf | lubB10.pcf | presbull72.pcf | timI18.pcf |
| charI10.pcf | lubB12.pcf | presbull8.pcf | timI24.pcf |
| charI12.pcf | lubB14.pcf | sovd10.pcf | timR08.pcf |
| charI14.pcf | luB18.pcf | souvd12.pcf | timR10.pcf |
| charI18.pcf | lubB19.pcf | souvd14.pcf | timR12.pcf |
| charI24.pcf | lubB24.pcf | souvd18.pcf | timR14.pcf |
| charR08.pcf | lubBI08.pcf | souvd24.pcf | timR18.pcf |
| charR10.pcf | lubBI10.pcf | souvd8.pcf | timR24.pcf |
| charR12.pcf | lubBI12.pcf | souvdI10.pcf | trm821B16.pcf |
| charR14.pcf | lubBI14.pcf | souvdI12.pcf | trm821B21.pcf |
| charR18.pcf | lubBI18.pcf | souvdI14.pcf | trm821_16.pcf |
| charR24.pcf | lubBI19.pcf | souvdI18.pcf | trm821_21.pcf |
| courB08.pcf | lubBi24.pcf | souvdI24.pcf | v33018.pcf |
| courB!0.pcf | lubI08.pcf | souvdI8.pcf | v33036.pcf |
| courB12.pcf | lubI10.pcf | souv110.pcf | v330B18.pcf |
| courB14.pcf | lubI12.pcf | souv112.pcf | v330B36.pcf |
| courB18.pcf | lubI14.pcf | souv114.pcf | v330BD18.pcf |
| courB24.pcf | lubI18.pcf | souvl18.pcf | v330BDt18.pcf |
| corBO08.pcf | lubI19.pcf | souvl24.pcf | v330BN18.pcf |
| courBO10.pcf | lubI24.pcf | souvl8.pcf | v330BN36.pcf |
| courBO12.pcf | lubR08.pcf | souvlI10.pcf | v330BNt18.pcf |
| courBO14.pcf | lubR10.pcf | souvlI12.pcf | v330BNt36.pcf |
| courBO18.pcf | lubR12.pcf | souvlI14.pcf | v330BW18.pcf |
| courBO24.pcf | lubR14.pcf | souvlI18.pcf | v330BWt18.pcf |
| courO08.pcf | lubR18.pcf | souvlI24.pcf | v330Bt18.pcf |
| courO10.pcf | lubR19.pcf | souvlI8.pcf | v330Bt35.pcf |
| courO12.pcf | lubR24.pcf | symb08.pcf | v330D18.pcf |
| courO14.pcf | lugrb10.pcf | symb10.pcf | v330Dt18.pcf |

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| courO18.pcf | lugrb12.pcf | symb12.pcf | v330N18.pcf |
| courO24.pcf | lugrb14.pcf | symb14.pcf | v330N35.pcf |
| courR08.pcf | lugrb18.pcf | symb18.pcf | v330Nt18.pcf |
| courR10.pcf | lugrb24.pcf | symb24.pcf | v330Nt36.pcf |
| courR12.pcf | lugrb8.pcf | tech14.pcf | v330W18.pcf |
| courR14.pcf | lugrbO10.pcf | techB14.pcf | v330Wt18.pcf |
| courR18.pcf | lugrbO12.pcf | term14.pcf | v330t18.pcf |
| courR24.pcf | lugrbO14.pcf | term18.pcf | v330t18.pcf |
| cursor.pcf | lugrbO18.pcf | term28.pcf | variable.pcf |
| decwcursor.pcf | lugrbO24.pcf | term36.pcf | |

The following table lists the miscellaneous fonts in the misc subkit:

**Directory:** `/usr/tftpboot/vxt/fonts/misc`

**Mode:** 444

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| 10x20.pcf | 8x16rk.pcf | clR6x10.pcf | deccurs.pcf |
| 12x24.pcf | 9x15.pcf | clR6x12.pcf | decsess.pcf |
| 12x24rk.pcf | 9x15B.pcf | clR6x13.pcf | fonts.alias |
| 5x7.pcf | clB6x10.pcf | clR6x6.pcf | fonts.dir |
| 5x8.pcf | clB6x12.pcf | clR6x8.pcf | hanglg16.pcf |
| 6x10.pcf | clB8x10.pcf | clR7x10.pcf | hanglm16.pcf |
| 6x12.pcf | clB8x12.pcf | clR7x12.pcf | hanglm24.pcf |
| 6x13.pcf | clB8x13.pcf | clR7x14.pcf | heb6x13.pcf |
| 6x13B.pcf | clB8x14.pcf | clR7x8.pcf | heb8x13.pcf |
| 6x9.pcf | clB8x16.pcf | clr8x10.pcf | jiskan16.pcf |
| 7x13.pcf | clB8x8.pcf | clr8x12.pcf | k14.pcf |
| 7x13B.pcf | clB9x15.pcf | clR8x13.pcf | ni12.pcf |
| 7x14.pcf | clI6x12.pcf | clR8x14.pcf | olcursor.pcf |
| 7.14B.pcf | clI8x8.pcf | clR8x14.pcf | olg110.pcf |
| 7x14rk.pcf | clR4x6.pcf | clR8x16.pcf | olg112.pcf |
| 8x13.pcf | clR5x10.pcf | clR8x8.pcf | olg114.pcf |
| 8x13B.pcf | clR5x6.pcf | clR9x15.pcf | olg119.pcf |

| File Names | File Names | File Names | File Names |
|---|---|---|---|
| 8x16.pcf | clR5x8.pcf | cursor.pcf | |

## B.7 Converting Sun Fonts for the VXT System

The following tables list the contents of the subkit for converting Sun fonts to the format used on the VXT system:

**Directory:** `/usr/local/bin`

**Mode:** 755

| File Names | File Names |
|---|---|
| mkfontalias | fixSunfonts |

**Directory:** `/usr/local/man/man1`

**Mode:** 444

| File Names | File Names |
|---|---|
| mkfontalias.man.1 | fixSunfonts.man.1 |

**Directory:** `/usr/tftpboot/vxt/fonts`

**Mode:** 444

| File Names |
|---|
| README.sunfont |

# C

# VXT Installation Error Messages: UNIX, ULTRIX, and DEC OSF/1 AXP Systems

This appendix describes possible installation error messages and provides corrective actions. The messages are divided into three categories:

- Subset Installation Error Messages
- User Error Messages
- Generic Error and Status Messages

## C.1 Subset Installation Error Messages

This section describes the subset error messages.

error during installation; unsuccessful installation

**Explanation:** An unspecified error occurred which caused the installation to abort. The error is flagged at the subkit level where it initially occurs. The log file indicates the reason for the error:

- Insufficient disk space
- Unavailable disk or NFS server (offline)
- Missing prerequisites for the font utilities
- Device used for installation was a rewinding device
- Incorrect file accessed using `install.sh` (`VXT-2.1.tar1` script was accessed instead of `VXT2.1.tar2` kit.)

If this error occurs for any subkit, the overall kit installation is classified as unsuccessful, even if other subkits installed successfully.

**User Action:**

- Increase your disk space.
- Check disk or server stability.
- Ensure that the prerequisite software is installed.
- Ensure that the device used is a non-rewinding device or check the device name used in the installation procedure.
- Ensure that the correct `tar` file was accessed.

If you have insufficient disk space, you can perform an NFS mount from a server that has sufficient space. For example:

```
% su
# mount -t nfs server:/usr/free_disk /usr/tftpboot
```

The syntax of the `mount` command may the different on your system. To determine available options, see the appropriate man page. You can then enter the `df` command.

installation interrupted; unsuccessful installation

**Explanation:** The installation process was interrupted, either by a keyboard interrupt or by receiving a signal from another process. All working directories and files will be removed. All files already installed on the system will remain and will be documented in the installed file list. The remove script may exist, depending on when the interrupt occurred.

This status is flagged by the subkit installation that was interrupted and the overall kit installation.

**User Action:** Restart the installation.

installation not started; unsuccessful installation

**Explanation:** The installation was not started, because prerequisite conditions were not met. This is only generated by the overall kit installation process.

**User Action:** Ensure the prerequisites are met:

- Both the installation script and a directory of subsidiary scripts must be initially extracted from the kit. Using the `tar` command in the hardcopy instructions that accompany the media ensures this step.
- Install files into an empty working directory. The installation script should only find itself and the kitscripts directory.
- Make sure there is a readable kit pathname supplied to `install.sh`. Remote `rsh`, `remsh`, `rcmd`, and `dcp` commands are always considered readable. After you extract the `tar` file, make sure `install.sh` and `kitscripts` exist.
- Remove all other files in the current directory.
- Make sure the pathname is correct. Check the supplied pathname for spelling or other errors.

installation not applicable to this system; no installation

**Explanation:** The particular subkit is not applicable to the type of system that you are performing the installation on. This error does not cause an overall installation error.

**User Action:** Make sure you are performing the installation on a supported system.

## C.2 User Error Messages

This section describes error messages that occur due to user intervention.

installation process terminated by user; no installation

**Explanation:** At some point in the installation process, you quit the installation when prompted for additional information. No portions of the subkit or kit were installed yet. Quitting a subkit does not cause the overall installation to be flagged with an error.

**User Action:** Restart the installation.

installation process terminated by user; partial installation

**Explanation:** You started the installation process on a subkit, but quit after installing some part of it. The `logfile` and the installed `filelist` indicate what was installed. This error does not cause the overall kit to be flagged with an error.

**User Action:** Restart the installation.

## C.3 Generic Error and Status Messages

This section describes generic installation error and status messages.

unknown exit status: *status*

**Explanation:** This message should never occur unless the media is corrupt or someone edits the scripts.

**User Action:** Make sure that the media is not corrupt or the script has not been edited. Contact your Digital customer service center.

not a directory: *filename*

**Explanation:** You specified the pathname of a regular file when asked for a directory. The script prompts you to specify another pathname.

**User Action:** Specify the pathname of a directory.

not a writeable destination directory: *directory_name* check your privileges

**Explanation:** You specified the pathname of a directory that does not have write privileges. This error does not occur if your are running in the root directory. The script prompts you to specify another pathname.

**User Action:** Specify another pathname or become superuser and make the directory writeable.

cannot create: *directory_name*

**Explanation:** You specified a nonexistent directory that could not be created. The script prompts you to specify another pathname. This error could be caused by lack of privileges, pointing at a read-only disk, or security issues with remote-mounted disks.

**User Action:** Specify another pathname and make sure you have the proper privileges.

not created: *directory_name*

**Explanation:** After specifying a directory, you answered no when the script asked for confirmation. The script prompts you to specify another pathname.

**User Action:** Specify another pathname.

not an absolute pathname destination directory: *directory_name*

**Explanation:** You specified a pathname that was not absolute (did not start with '/'). The script prompts you to specify another pathname.

**User Action:** Specify another pathname.

# Glossary

### Application launcher

In VXT software, a utility that allows terminal users to start applications residing on a host system, for display on the terminal. The terminal user connects to the host system, runs the application launcher, then enters a command to launch the desired host application.

### BDF

Bitmap distribution font format.

### Boot

To bring a device or system to a defined state where it can operate on its own.

### BOOTP

Boot protocol. A protocol that determines a diskless host's Internet address at startup, so that the host can operate in an Internet network.

### client

An application program running in the X Window System environment.

### Configuration manager

In VXT software, a set of windows and dialog boxes that system managers use to manage VXT 2000 windowing terminals and their fonts.

### Customizations

In VXT software, the set of customized operating settings for a terminal or work group. Customizations are stored in a *resource* file.

### DECnet

Digital's family of hardware and software communications products that implement the Digital Network Architecture (DNA) to let a user access information on a remote computer through telecommunications lines.

### DECterm

Digital's VT series terminal emulator. VXT 2000 windowing terminals let users create DECterm sessions on host systems.

### Ethernet

A communications concept for local communication networks that interconnects different kinds of computers, information processing products, and office equipment at a local business site. Ethernet is comprised of passive coaxial cable or shielded twisted-pair cable with interconnections containing all active components so that no switching logic or central computer is needed to establish or control communications.

### Host-based terminal

A terminal that uses its own memory to operate VXT software. By default, host-based terminals also use their own memory to store their *customizations* in a *native resource file*. Compare to *server-based terminal*.

### Host-based resource file

A file created by a system manager or user to store customizations for a terminal or group of terminals. The file is stored on a host system; terminals can access the file using the NFS or TFTP protocols. Compare to *native resource file*.

### InfoReader

A library of online documentation provided with VXT software kits for InfoServer systems. VXT 2000 windowing terminal users access the library from the Getting Started menu in the Terminal Manager window.

### InfoServer

A high-performance virtual disk server that can efficiently download the VXT system image to many VXT 2000 windowing terminals. The InfoServer provides the terminals with a virtual memory capability. System managers can manage VXT 2000 work groups by using InfoServers and the terminal's Configuration Manager.

### Internet

A collection of networks that includes the ARPAnet, Digital's IP EASYnet, and a number of local networks at universities and research institutes.

### LASTport/Disk

A protocol used by *InfoServer* systems. The VXT loader file (*VXTLDR*) communicates with InfoServer systems by using the LASTport/Disk protocol.

### LASTport group code

A number from 0 to 1023 assigned to an InfoServer system. The InfoServer only communicates with systems that belong to the same group code.

### LAT protocol

A network protocol created by Digital for local area network communication.

### MOP

Maintenance operation protocol. A network management protocol within DECnet software that handles tasks such as downloading, upline dumping, and circuit testing.

### Native resource file

In VXT software, the file that stores a terminal's customized settings, entered from the terminal's dialog boxes or from the configuration manager of another terminal. *Host-based terminals* store their native resource file in the terminal's nonvolatile memory. *Server-based terminals* store their native resource file on an InfoServer system. Compare to *Host-based resource file*.

### NCP

A DECnet utility used to monitor, manage, and configure network nodes.

### NFS

A network protocol developed by Sun Microsystems, Inc. The VXT 2000 windowing terminal can use NFS to access fonts or *host-based resource files* on host systems.

### NIS

Network information services (formerly called yellow pages).

### NML

Network Management Listener. A utility that executes *NCP* commands and sends the results to the source node.

### NVRAM

Nonvolatile random access memory. VXT 2000 windowing terminals that are not in a server environment use their NVRAM to store their customizations.

### PCF

Portable compiled font format.

### ping

Packet Internet groper. A program that checks if a destination service is available by sending the service an ICMP echo request and waiting for a reply.

### protocol

A set of rules for the implementation of a bus or network communication system. Protocols cover options such as signaling methods, coding, packaging of messages, and methods of preventing and correcting errors.

### Resource file

In VXT software, the file that stores the *customizations* for a terminal or work group. See *Host-based resource file* and *Native resource file*.

### Server-based terminal

In VXT software, a terminal that uses an *InfoServer* system to load its VXT software and provide memory paging services. By default, a server-based terminal also stores its *customizations* on the InfoServer, in a *native resource file*. Compare to *host-based terminal*.

### SNF

Server normal format. The font format for OpenVMS VAX fonts.

### SNMP

Simple network management protocol.

### TCP/IP

Transmission control protocol/Internet protocol. The standard wide area networking software for UNIX operating systems. TCP/IP is a set of protocols developed by researchers centered around the Advanced Research Projects Administration Network (ARPAnet).

### Telnet

The virtual terminal protocol used in *TCP/IP*. VXT 2000 windowing terminals let you use Telnet to create terminal window sessions.

### Terminal Manager window

In VXT software, the window for creating and managing sessions, customizing terminal settings, and performing local printing functions.

### TFTP

Trivial file transfer protocol. The Internet standard protocol for file transfer with minimal capability and minimal overhead. TFTP is intended for use in application environments that do not require complex interaction among clients and servers.

### transport

The network software that routes user data to its destination and controls the flow of data.

### VXT launcher

See *Application launcher*.

### VXTLDR

VXT loader file. In server-based environments, this file downloads the VXT system image to the VXT 2000 windowing terminal.

### work group

A *native resource file* and a set of server-based terminals that share the file. Each work group is assigned to a particular InfoServer. You can create work groups in the *configuration manager*.

### X11R5

X Version 11, Release 5 of the *X Window System*.

### XDMCP

X display manager control protocol. To create IP X sessions on a VXT 2000 windowing terminal, your host system must support XDMCP.

### XIE

X image extension. A component of DECimage Application Services product that provides application programmers with tools to render and manipulate graphic images faster on workstations and VXT 2000 windowing terminals. XIE lets programmers render images by using server resources rather than client resources.

### XLFD

X logical font description, a naming convention for fonts, described in the MIT X Window System documentation.

### X server

A process that provides *X Window System* windowing services to the terminal. The X server sends your keyboard and mouse input to clients. Clients send information to the X server for display in windows on the terminal.

### X Window System

A network-based, windowing interface developed by the Massachusetts Institute of Technology (MIT). The X Window System has been adopted by many major computer manufacturers.