VXT Software

Appendixes

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VXT Software:

Appendixes

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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. 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

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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

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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.