Alpha Systems Firmware Update V7.3

Release Notes Overview

Part Number AA-RGKNV-TS

April 2007

Hewlett-Packard Company

Alpha Firmware Version 7.3

1 Important Information

The CD contains the latest console firmware revision for each system listed. Console firmware is backward compatible with respect to hardware and OS revision.

It is recommended that you system is upgrade to the current revision, to assure that your system has the latest firmware in terms of PAL code, boot device support, and bug fixes. Exceptions to this recommendation may be noted in the system-specific release notes, or in the Operating System's release notes.

The CD also contains a previous console firmware revision, so that the firmware could be down-revved, if necessary. The system-specific firmware release notes provide instructions on installing firmware.

2 Firmware for Older Alpha Systems

Firmware images, for current and the earlier generations of Alpha systems, can be downloaded from the Internet at the following URL address:

http://ftp.digital.com/pub/Digital/Alpha/firmware/readme.html

Earlier versions of firmware for a particular Alpha system are not available from this URL address.

3 Firmware CD Boot Procedure

The boot procedure allows for easy booting of the console firmware update program from CD. The procedure is as follows:

Insert the firmware CD in the disc drive and type **boot <cd-drive name>,** at the console prompt (for example, >>> *boot dqa0*). The system reads the CD then displays system-specific **README-FIRST** information, the default bootfile, and the **Bootfile:** prompt.

Press the RETURN-key or the ENTER-key to invoke the default bootfile, or type a specific directory and bootfile-name to load a previous version of firmware. For most systems, the bootfile image includes firmware updates for supported I/O adapters.

Type the *list* command to display the firmware files. Type the **update *** command to update all firmware.

Refer to the system-specific console release notes for additional details on the firmware update procedure.

4 Operating Systems/Firmware CD Revision Matrix

Table 1 lists the minimum acceptable Firmware Update CD Version, for versions of Tru64 UNIX, and OpenVMS. The designation "FW CD Vx.x" in the table refers to the AlphaSystems Firmware Update Vx.x CD-ROM. Later versions of firmware are supported with earlier versions of operating systems. The AlphaSystems Firmware CD is periodically updated. Refer to the system-specific release notes to identify changes from the prior CD release.

Table 1 Minimum Acceptable FW CD Versions for OS Releases

OS	OS Version	Minimum Acceptable FW CD Version
Tru64 UNIX	V4.0F	FW CD V5.4
	V4.0G	FW CD V5.9
	V5.0	FW CD V5.5
	V5.0A	FW CD V5.6
	V5.1	FW CD V5.8
	V5.1A	FW CD V5.9
	V5.1B	FW CD V6.3
Open VMS	V7.0	FW CD V3.4
	V6.2-1H2	FW CD V3.5
	V6.2-1H3	FW CD V3.6
	V7.1	FW CD V3.8
	V7.1H1	FW CD V5.0
	V7.1-2	FW CD V5.3

OS	OS Version	Minimum Acceptable FW CD Version
Open VMS	V7.2	FW CD V5.3
	V7.2-1	FW CD V5.3
	V7.2-2	FW CD V6.0
	V7.3	FW CD V5.9
	V7.3-1	FW CD V6.2
	V7.3-2	FW CD V6.5
	V8.2	FW CD V6.8

Refer to the Operating System's Release Notes for additional information.

5 CD Ordering Info

Table 2 Ordering Information

Item	Order Number	Media Rev
Customer Firmware Kit Update Service	QT-5VUAA-XA	---
Customer Firmware Kit	QB-5VUAA-SA.7.3	7.3
Item	**Part Number**	**Media Rev**
Release Notes Overview	AA-RGKNV-TS	---
CD-ROM	AG-RCFBX-BS	7.3
CD-ROM Plus Release Notes Overview	AI-RWU2D-BE	---
Software Replication License Letter	AV-PYW4X-TS	---

6 Alpha Firmware from the Internet

Alpha firmware is downloadable from the Internet at the following locations

ftp.digital.com/pub/Digital/Alpha/firmware

From an Internet browser, please use the following URL address:

http://ftp.digital.com/pub/Digital/Alpha/firmware/readme.html

The *readme.html* file describes the firmware directory structure, and how the files can be downloaded and used.

7 Console Firmware Revisions

Table 3 lists the latest console firmware revisions that are on the Alpha Systems Firmware Update CD-ROM. Note that the "SRM FW" is the console firmware used for OpenVMS, DIGITAL UNIX, or Tru64 UNIX. The "NT FW" is the firmware used for WindowsNT. An asterisk * indicates firmware has CHANGED since the last release.

Table 3 Console FW Revisions

AlphaServer	Revision		
	SRM FW	**NT FW**	**Update Utility**
DS10, AlphaStation XP900	V7.3 *	V5.71	V7.3 *
DS15,DS15A	V7.3 *	--	V7.3 *
DS20,DS20E	V7.3 *	V5.71	V7.3 *
DS25	V7.3 *	--	V7.3 *
ES40,TS40,TS20	V7.3 *	--	V7.3 *
ES45	V7.3 *	--	V7.3 *
ES47,ES80,GS1280	V7.3 *	--	V7.3 *
GS80,160,320	V7.3 *	--	V7.3 *
TS202c	V6.8B	--	V6.8B

8 I/O Device FW Revisions

Table 4 lists the latest revisions of firmware (on CD) for the various I/O devices. Refer to the system-specific release notes for instructions to update I/O option firmware. There are no I/O option firmware changes in the V7.3 CD release.

Table 4 I/O Device FW Revisions

AlphaServer	I/O Device	FW Rev
DS10, DS10L, AlphaStation XP900	CIPCA	A420
	DEFPA	V3.20
	ISP10X0	V5.57
	KGPSA-BC	3.20x7
	KGPSA-CA	3.93a0
	FCA-2354 (KGPSA-DA)	3.93a0
	FCA-2384	1.91X6
	KZPCC	CQ17
	KZPDC	V3.56
	KZPSA	A12
DS20,DS20E, ES40	CIPCA	A420
	DEFPA	V3.20
	ISP10X0	V5.57
	KGPSA-BC	3.20x7

Table 4 Device FW Revisions (cont.)

AlphaServer	I/O Device	FW Rev
DS20, DS20E, ES40 (cont.)	KGPSA-CA	3.93a0
	FCA-2354	3.93a0
	FCA-2384	1.91X6
	FCA-2684	1.91X6
	KZPCC	CQ17
	KZPDC	V3.56
	KZPSA	A12
DS15, DS15A	FCA-2384	1.91X6
	FCA-2684	1.91X6
	KZPDC	V3.56
	KZPEC	V2.58
DS25, ES45	CIPCA	A420
	DEFPA	V3.20
	ISP10X0	V5.57
	KGPSA-CA	3.93a0
	FCA-2354 (KGPSA-DA)	3.93a0
	FCA-2384	1.91X6
	FCA-2684	1.91X6
	KZPCC	CQ17
	KZPDC	V3.56
	KZPEC	V2.58

Table 4 I/O Device FW Revisions (cont.)

AlphaServer	I/O Device	FW Rev
ES47, ES80, GS1280	CIPCA	A420
	DEFPA	V3.20
	FCA-2354 (KGPSA-DA)	3.93a0
	FCA-2384	1.91X6
	FCA-2684	1.91X6
	KZPDC	V3.56
	KZPEC	V2.58
GS80, GS160, GS320	CIPCA	A420
	DEFPA	V3.20
	KGPSA-CA	3.93a0
	FCA-2354	3.93a0
	FCA-2384	1.91X6
	FCA-2684	1.91X6
	KZPCC	CQ17
	KZPDC	V3.56

9 Firmware Release Notes Documents

Table 5 lists the latest system-specific firmware release notes on the Alpha Systems Firmware Update CD-ROM. These documents may be copied, viewed, or printed from CD.

On OpenVMS systems, documents can be found in the **[DOC]** directory. On Tru64 UNIX systems, they can be found in the /DOC/ directory. On Windows systems, they can be found in the \DOC\ directory.

Table 5 Firmware Release Notes Documents

System Type	Filenames
AlphaServer DS10, DS10L, AlphaStation XP900	DS10_V73_FW_RELNOTE.PS, .PDF
AlphaServer DS15/DS15A	DS15_V73_FW_RELNOTE.PS, .PDF
AlphaServer DS20, DS20E	DS20_V73_FW_RELNOTE.PS, .PDF
AlphaServer DS25	DS25_V73_FW_RELNOTE.PS, .PDF
AlphaServer ES40	ES40_V73_FW_RELNOTE.PS, .PDF
AlphaServer ES45	ES45_V73_FW_RELNOTE.PS, .PDF
AlphaServer ES47/ES80/GS1280	GS1280_V73_FW_RELNOTE.PS, .PDF
AlphaServer GS80, GS160, GS320	GS320_V73_FW_RELNOTE.PS, .PDF
AlphaServer TS202C	TS202C_V68B_FW_RELNOTE.PS, .PDF

Notes: This *Release Notes Overview* document is in the document directory: *ALPHA_V73_FW_UPD.PS, .PDF*.

Documentation for the *FibreChannel WWIDManager* is in the document directory: *WWIDMGR.PS, .PDF*.

9.1 Printing a Document from OpenVMS

Place the Firmware Update Utility CD-ROM into the drive.

Enter the following command, where DQA0: is the device name of the CD drive:

```
$ MOUNT DQA0: UPDATE_V73
```

Enter the following command, where filename is the document title.

```
$ COPY DQA0:[DOC]<filename>  <filename>
```

Print the document you copied.

Dismount the CD-ROM by entering the following command:

```
$ DISMOUNT DQA0:
```

9.2 Viewing the ISO directory from OpenVMS

Place the Firmware Update Utility CD-ROM into the drive.

Enter the following command, where DQA0: is the device name of the CD-ROM drive:

```
$ MOUNT/MEDIA=CD DQA00: UPDATE_V73
```

To view a directory of the CD-ROM, enter the following command:

```
$ DIR DQA0:[000000...]
```

Dismount the CD-ROM by entering the following command:

```
$ DISMOUNT DQA0:
```

9.3 Printing a Document from Tru64 UNIX

Place the Firmware Update Utility CD-ROM into the drive.

In order to mount the CD-ROM your kernel must be configured for the ISO 9660 Compact Disc File System (CDFS).

Enter one of the following commands, where *rz4c* or *cdrom* is the device name of the CD drive:

```
# mount -rt cdfs -o noversion /dev/rz4c /mnt
# mount -rt cdfs -o noversion /dev/disk/cdrom0c /mnt
```

To copy a document to your system disk, enter the following command, where filename is the document title.

```
# cp "/mnt/DOC/<filename>"  <filename>
```

Print the document you copied.

Dismount the CD-ROM by entering the following command:

```
# umount /mnt
```

9.4 Printing a Document from Windows

Place the Firmware Update Utility CD-ROM in to the drive.

From the file manager or Explorer, select the **\DOC** directory.

Print the release notes for the desired system.