

Supported File and File System Sizes for JFS and HFS

White Paper



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1 Supported File and File System Sizes for JFS and HFS

Introduction

Beginning with Release 10.10, the supported sizes for files and file systems on HP-UX have gradually increased. Below is a summary of the supported sizes for Releases 10.01 through 11i.

HFS Supported Sizes

The maximum file and file system sizes supported by HFS are listed in the table below.

NOTE Although it may be possible to create files or file systems larger than these documented limits, such files and file systems are not supported and the results of using them may be unpredictable.

Table 1-1 HFS Supported File and File System Sizes

HP-UX Release	Maximum Supported File Size	Maximum Supported File System Size
10.01	2 GB	4 GB
10.10	2 GB	128 GB
10.20*	128 GB	128 GB
11.00*	128 GB	128 GB
11i*	128 GB	128 GB

NOTE * On these releases it is possible to exceed the 128 GB limit to 256 GB, but it is not supported.

JFS (VxFS) Supported Sizes

The maximum file and file system sizes supported by the Journaled File System (JFS), also known as the VERITAS File System (VxFS), are listed in the table below.

NOTE Although it may be possible to create files or file systems larger than these documented limits, such files and file systems are not supported and the results of using them may be unpredictable.

Table 1-2

JFS (VxFS) Supported File and File System Sizes

HP-UX Release	JFS Version	Disk Layout Version	Maximum Supported File Size	Maximum Supported File System Size
10.01	JFS 2.0	Version 2**	2 GB	4 GB
10.10	JFS 2.0	Version 2**	2 GB	128 GB
10.20	JFS 3.0	Version 2	2 GB	128 GB
10.20	JFS 3.0	Version 3**	128 GB	128 GB
11.00	JFS 3.1	Version 2	2 GB	128 GB
11.00*	JFS 3.1	Version 3**	1 TB	1 TB
11.00	JFS 3.3	Version 2	2 GB	128 GB
11.00	JFS 3.3	Version 3**	1 TB	1 TB
11.00	JFS 3.3	Version 4	1 TB	1 TB
11i	JFS 3.3	Version 2	2 GB	128 GB
11i	JFS 3.3	Version 3	2 TB	2 TB
11i	JFS 3.3	Version 4**	2 TB	2 TB

NOTE * PHKL_22719 is needed to avoid mount problems if extending or creating file systems beyond 128 GB.

NOTE ** default disk layouts for particular HP-UX Releases.

Related JFS Patches

Beginning with HP-UX 10.20, several patches have been introduced to prevent the creation or extension of JFS file systems beyond the

supported maximum size:

For HP-UX 10.20 the patches are:

PHCO_23035 s700_800 10.20 extendfs_vxfs(1M) cumulative patch

PHCO_23036 s700_800 10.20 fsadm_vxfs(1M) cumulative patch

PHCO_23037 s700_800 10.20 mkfs_vxfs(1M) cumulative patch

Corresponding patches for HP-UX 11.00 and 11i are being prepared. The patch numbers were not known when this document was written. For the latest information about available patches, see the IT Resource Center:

<http://ITresourcecenter.hp.com>

- If you have a support contract, select **Browse Support Info By Product**.
- If you do not have a support contract, select **Individual Patches to search the Patch Database**. Then select **HP-UX Patches**, select **11.00** or **11i** or **11.11** as the OS version, and search for the keyword **JFS** to get a list of JFS patches.

NOTE You must register with the IT Resource Center to search the patch database.
