

HP OnLineJFS Installation Instructions

for HP-UX 10.20 Systems

Edition 3

HP 9000 Systems



Manufacturing Part Number: 5971-4611

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U.S.A.

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HP OnLineJFS Installation Instructions for HP-UX 10.20

Introduction

This document contains instructions for installing the HP OnLineJFS product (B3929BA or B5118BA) on HP-UX 10.20 systems.

Read Before Installing

If HP OnLineJFS is installed on an HP-UX 10.20 system that has been in use and on which HP-UX kernel patches have been applied, you must be aware of a serious problem that could compromise the integrity of the system.

Some HP-UX kernel patches contain fixes for both the base JFS file system (fileset `VXFS-BASE-KRN`) and OnLineJFS (fileset `VXFS-ADV-KRN`). At the time these kernel patches are installed, only the changes for the installed files will be applied to the system. Therefore if OnLineJFS does not reside on the system at patch installation time, the changes to the OnLineJFS library will not be applied.

When OnLineJFS is installed at a later date, the changes from the installed patches are not retroactively applied to OnLineJFS. This can leave the system in an inconsistent state between the base JFS and OnLineJFS software, which can cause such problems as data corruption, panics, or other unexpected failures.

IMPORTANT

To avoid these problems, you must first remove the latest patches containing the `VXFS-ADV-KRN` fileset, then install HP OnLineJFS, and then apply the latest OnLineJFS patches. During this procedure, you must boot a previous version of the kernel to ensure the sanity of the new system.

Installing HP OnLineJFS on HP-UX 10.20

To install HP OnLineJFS (B3929BA for servers, B5118BA for workstations) on an existing HP-UX 10.20 system, follow the steps below.

- Step 1.** Remove the latest patches that contain the `VXFS-ADV-KRN` fileset, with the exception of `PHKL_16750 (s700)` and `PHKL_16751 (s800)`, which can remain on the system if they are already installed.

List patches with `swlist (1M)` and remove patches with `swremove (1M)`.

The latest 10.20 HP-UX patches are listed on <http://itrc.hp.com>.

As of August 1, 2001, the following patches must be removed before installing OnLineJFS. These patches, along with other OnLineJFS patches, will be reinstalled after OnLineJFS has been installed.

Table 1-1 **OnLineJFS Patches to Remove before OnLineJFS Installation (as of August 1, 2001)**

s700	s800
PHKL_20357	PHKL_20358
PHKL_20096	PHKL_20097

- Step 2.** Turn off the autoboot feature with `setboot (1M)`:

```
# setboot -b off
```

This will allow you to boot the previous version of the kernel that does not have HP OnLineJFS configured into it (`/stand/vmunix.prev`).

- Step 3.** Install HP OnLineJFS (B3929BA or B5118BA) with `swinstall (1M)`. Follow the instructions accompanying the media.

Allow the system to reboot to Interactive Boot mode (see `hpux (1M)`). Choose `[x]`es for Interacting with IPL and choose to reboot `vmunix.prev`.

Here is an example of the bootup sequence. Note that the exact dialogue may vary depending on the hardware.

```
Main Menu: Enter command > bo [primary-path|alternate-path]  
Interact with IPL (Y, N, Q)?> y  
Booting...
```

Installing HP OnLineJFS on HP-UX 10.20

```
Boot IO Dependent Code (IODOC) revision 153  
HARD Booted.  
ISL Revision !.00.38 OCT 26, 1994  
ISL> hpux vmunix.prev
```

Step 4. Reset the autoboot feature to ON after the system has rebooted.

```
# setboot -b on
```

After OnLineJFS patches are installed, this will allow for booting the default `/stand/vmunix` which will contain the OnLineJFS fileset and all applicable patches.

Step 5. Install the latest OnLineJFS patches using *swinstall* (1M).

The latest 10.20 HP-UX patches are listed on <http://itrc.hp.com>.

The table below lists the patches to be installed as of August 1, 2001. This list will change each time a new patch containing the VXFS-ADV-KRN fileset is created or if any of the patches is superseded.

Table 1-2 OnLineJFS Patches as of August 1, 2001

s700	s800
PHKL_16750	PHKL_16751
PHKL_13093	PHKL_13094
PHKL_20357	PHKL_20358
PHKL_20096	PHKL_20097
PHKL_24065	PHKL_24066

NOTE

The HP-UX Base Kernel patch (PHKL_16750 or PHKL_16751) may or may not be installed on the system before installing OnLineJFS, but it must be installed before installing patches PHKL_20096 or PHKL_20097 and PHKL_24065 or PHKL_24066, to satisfy a dependency check.

The system will reboot.

Step 6. After the system has had both OnLineJFS and all required patches

installed, verify that all files are at their correct revision levels with the following command:

```
# what /usr/conf/lib/libvxfs_adv.a /usr/conf/lib/libdmap.i.a
```

NOTE

Some files may have patch-IDs of patches that have not been installed on your system. This is normal.

For s700, when the above patches are applied, the output will include the following files and corresponding patch-IDs, along with other information that is not shown here:

```
kdm_core.c (PHKL_20096)
vx_dio.c (PHKL_20355)
vx_dirsort.c (PHKL_13093)
vx_dmattn.c (PHKL_19529)
vx_full.c (PHKL_19529)
vx_kdmi.c (PHKL_19529)
vx_reorg.c (PHKL_24065)
vx_sample_dmattn.c (PHKL_19529)
vx_snap.c (PHKL_20357)
```

For s800, when the above patches are applied, the output will include the following files and corresponding patch-IDs, along with other information that is not shown here:

```
kdm_core.c (PHKL_20097)
vx_dio.c (PHKL_20356)
vx_dirsort.c (PHKL_13094)
vx_dmattn.c (PHKL_19530)
vx_full.c (PHKL_19530)
vx_kdmi.c (PHKL_19530)
vx_reorg.c (PHKL_24066)
vx_sample_dmattn.c (PHKL_19530)
vx_snap.c (PHKL_20358)
```