

Enhanced AutoFS B.11.11.0503.1 Release Notes

HP-UX 11iv1



Manufacturing Part Number: B1031-90055

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Enhanced AutoFS B.11.11.0503.1 Release Notes

The information in this document applies to the release of Enhanced AutoFS version B.11.11.0503.1, for HP-UX 11iv1.

Announcement

Announcement

AutoFS is a filesystem that automatically mounts directories as they are accessed and unmounts them when they are no longer needed.

Enhanced AutoFS provides improvements in reliability and performance over other currently offered automounting facilities on HP-UX.

This version of Enhanced AutoFS, B.11.11.0503.1, is primarily a defect fix release. For information about the defect fixes, see “Patches and Fixes in This Version” on page 12.

What Is In This Version

The features supported on Enhanced AutoFS B.11.11.0503.1 are as follows:

- On-demand mounting - Enhanced AutoFS B.11.11.0503.1 mounts only the file systems that users access; other file systems that are hierarchically related to these file systems are mounted as needed. This increases the performance by preventing unnecessary mounting and unmounting.
- Browsability - Enhanced AutoFS B.11.11.0503.1 allows a user to view the directories that can be mounted for indirect maps, without having to actually mount each file system.
- Device ID - Enhanced AutoFS B.11.11.0503.1 uses the `device id` of a mounted file system stored in the `/etc/mnttab` file as a reference for a future unmount. Enhanced AutoFS B.11.11.0503.1 does not have to retrieve the `device id` from the remote file system. This improves the overall performance.
- Concurrent mount or unmount - Enhanced AutoFS B.11.11.0503.1 performs concurrent mounts and unmounts using a multithreaded `automountd` daemon. This prevents services from hanging due to an unavailable server, and leads to performance enhancement.
- Reliable NFS ping - Enhanced AutoFS B.11.11.0503.1 supports a `-retry=n` mount option for an NFS map entry. This option is used to configure the ping timeout value.
- CIFS Client support - Enhanced AutoFS B.11.11.0503.1 has the ability to support HP CIFS Client.
- NFS loopback mount - Enhanced AutoFS B.11.11.0503.1, by default, uses LOFS mounts for locally mounted file systems. Enhanced AutoFS B.11.11.0503.1 provides an option to allow loopback NFS mounts for the local mount. You need to use this option in the High Availability NFS environments.

Installation Information

This section specifies the requirements for installing Enhanced AutoFS B.11.11.0503.1. It includes information on installing Enhanced AutoFS B.11.11.0503.1 and verifying the Enhanced AutoFS B.11.11.0503.1 installation.

System Requirements

The following section lists the requirements for installing Enhanced AutoFS B.11.11.0503.1:

- Hardware requirement – HP 9000 system
- Software requirement – HP-UX 11i version 1
- Free disk space – 25 MB

Installing Enhanced AutoFS B.11.11.0503.1

To install Enhanced AutoFS B.11.11.0503.1 on your system, perform the following steps:

1. Download the software depot to a directory, for example:
`/tmp/ENHAUTO_B.11.11.0503.1_HP-UX_B.11.11_32+64.depot`
2. Use `swinstall` to install Enhanced AutoFS B.11.11.0503.1; run the following command:

```
swinstall -x autoreboot=true -s \  
/tmp/ENHAUTO_B.11.11.0503.1_HP-UX_B.11.11_32+64.depot
```

NOTE

Enhanced AutoFS B.11.11.0503.1 contains a kernel product. Thus `swinstalling` the product will cause a system reboot after the installation is complete.

Verifying Enhanced AutoFS B.11.11.0503.1 Installation

You can verify the Enhanced AutoFS B.11.11.0503.1 installation as follows:

- To verify that Enhanced AutoFS B.11.11.0503.1 is successfully installed, run the following command:

```
swlist -l bundle ENHAUTO
```

If Enhanced AutoFS B.11.11.0503.1 is successfully installed, the following message appears:

```
ENHAUTO B.11.11.0503.1 Enhanced AutoFS, March 2005
```

- To verify that there were no errors during the Enhanced AutoFS B.11.11.0503.1 installation, run the following command:

```
swverify ENHAUTO
```

If Enhanced AutoFS B.11.11.0503.1 is successfully installed, the following message appears:

```
Verification succeeded
```

NOTE

After installing Enhanced AutoFS B.11.11.0503.1, you can specify the maximum data segment size for an executing process using the `maxdsiz` kernel variable. The value for this variable should be at least 256 MB. The value of the `maxdsiz` kernel variable must be changed because `automountd` requires a larger data segment size in a large map configuration.

Software Availability in Native Languages

Enhanced AutoFS B.11.11.0503.1 and its product documentation are available in English only.

Known Problems and Workarounds

Following lists the known problems and workarounds in Enhanced AutoFS B.11.11.0503.1:

- After installation, if Enhanced AutoFS is not enabled, the following message is displayed in the `syslog.log` file:

```
automount: WARNING: default option "nobrowse" ignored for  
map -hosts
```

Workaround: This can be resolved by modifying the `/etc/rc.config.d/nfsconf` file. Set the `AUTOFS` variable to 1. Restart the NFS client with the following commands:

```
/sbin/init.d/nfs.client stop  
  
/sbin/init.d/nfs.client start
```

Patches and Fixes in This Version

This section describes the patches and software fixes for this version of Enhanced AutoFS.

Table 1 **Defect Fixes**

SR Number	JAGid	Description
8606392131	JAGaf52263	Makes automountd a more well-behaved daemon by closing its file descriptors.
8606363724	JAGaf24382	Prevents panic on system where a manual unmount of an NFS mount point was done when the mount point was mounted by Enhanced AutoFS B.11.11.0503.1.
8606355487	JAGaf16201	Adds a space to certain NOTE's output during the installation of Enhanced AutoFS B.11.11.0503.1.
8606359422	JAGaf20118	Bundles the Enhanced AutoFS B.11.11.0503.1 product and all of its dependent products and patches into one bundle (thus preventing installation problems).
8606392010	JAGaf52142	Prevents automountd from leaking memory
8606386923	JAGaf47077	Prevents panic on system because the Enhanced AutoFS B.11.11.0503.1 kernel daemon was started too soon (before swap).
8606392389	JAGaf52521	Includes a fix to prevent a filesystem from becoming inaccessible under certain circumstances.