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pivot_root(8) - Linux man page

Name

pivot_root - change the root file system

Synopsis

pivot_root new_root put_old

Description

pivot_root moves the root file system of the
current process to the directory put_old and
makes new_root the new root file system.
Since pivot_root(8) simply calls pivot_root(2),
we refer to the man page of the latter for
further details.

Note that, depending on the implementation of **pivot_root**, root and cwd of the caller may or may not change. The following is a sequence for invoking **pivot_root** that works in either case, assuming that **pivot_root** and **chroot** are in the current **PATH**:

cd new_root
pivot_root . put_old
exec chroot . command

Note that **chroot** must be available under the old root and under the new root, because **pivot_root** may or may not have implicitly changed the root directory of the shell.

Note that **exec chroot** changes the running executable, which is necessary if the old root directory should be unmounted afterwards. Also note that standard input, output, and error may still point to a device on the old root file system, keeping it busy. They can easily be changed when invoking **chroot** (see below; note the absence of leading slashes to make it work whether **pivot_root** has changed the shell's root or not).

Examples

Change the root file system to /dev/hda1 from an interactive shell:

```
mount /dev/hda1 /new-root
cd /new-root
pivot_root . old-root
exec chroot . sh <dev/console >dev/console 2>&1
umount /old-root
```

Mount the new root file system over NFS from 10.0.0.1:/my_root and run init:

See Also

chroot(1), mount(8), pivot_root(2), umount(8)

Availability

The pivot_root command is part of the util-linux-ng package and is available from ttp://ftp.kernel.org/pub/linux/utils/util-linux-ng/.

Referenced By

initrd(4), Ixc.conf(5)