

Here is a list of the main directories which should be present under **/**:

### Main Directories

Directory	In FHS?	Purpose
<b>/</b>	Yes	Primary directory of the entire filesystem hierarchy
<b>/bin</b>	Yes	Essential executable programs that must be available in single user mode
<b>/boot</b>	Yes	Files needed to boot the system, such as the kernel, initrd or initramfs images, and boot configuration files and bootloader programs
<b>/etc</b>	Yes	System-wide configuration files
<b>/home</b>	Yes	User home directories, including personal settings, files, etc.
<b>/lib</b>	Yes	Libraries required by executable binaries in <b>/bin</b> and <b>/sbin</b>
<b>/lib64</b>	No	64-bit libraries required by executable binaries in <b>/bin</b> and <b>/sbin</b> , for systems which can run both 32-bit and 64-bit programs
<b>/media</b>	Yes	Mount points for removable media such as CD's, DVD's, USB sticks etc.
<b>/mnt</b>	Yes	Temporarily mounted filesystems
<b>/opt</b>	Yes	Optional application software packages
<b>/proc</b>	Yes	Virtual pseudo-filesystem giving information about the system and processes running on it; can be used to alter system parameters
<b>/sys</b>	No	Virtual pseudo-filesystem giving information about the system and processes running on it; can be used to alter system parameters, is similar to a device tree and is part of the Unified Device Model
<b>/root</b>	Yes	Home directory for the root user
<b>/sbin</b>	Yes	Essential system binaries
<b>/srv</b>	Yes	Site-specific data served up by the system; seldom used
<b>/tmp</b>	Yes	Temporary files; on many distributions lost across a reboot and may be a ramdisk in memory
<b>/usr</b>	Yes	Multi-user applications, utilities and data; theoretically read-only
<b>/var</b>	Yes	Variable data that changes during system operation

A system should be able to boot and go into single user, or recovery mode, with only the **/bin**, **/sbin**, **/etc**, **/lib** and **/root** directories mounted, while the contents of the **/boot** directory are needed for the system to boot in the first place.

Many of these directories (such as **/etc** and **/lib**) will generally have subdirectories associated either with specific applications or sub-systems, with the exact layout differing somewhat by Linux distribution. Two of them, **/usr** and **/var**, are relatively standardized and worth looking at.

### Directories Under /usr

Directory	Purpose
<b>/usr/bin</b>	Non-essential binaries and scripts, not needed for single user mode; generally this means user applications not needed to start system
<b>/usr/include</b>	Header files used to compile applications
<b>/usr/lib</b>	Libraries for programs in <b>/usr/bin</b> and <b>/usr/sbin</b>
<b>/usr/lib64</b>	64-bit libraries for 64-bit programs in <b>/usr/bin</b> and <b>/usr/sbin</b>
<b>/usr/sbin</b>	Non-essential system binaries, such as system daemons
<b>/usr/share</b>	Shared data used by applications, generally architecture-independent
<b>/usr/src</b>	Source code, usually for the Linux kernel
<b>/usr/X11R6</b>	X Window files; generally obsolete

Directory	Purpose
/usr/local	Local data and programs specific to the host; subdirectories include <b>bin</b> , <b>sbin</b> , <b>lib</b> , <b>share</b> , <b>include</b> , etc.

## Directories Under /var

Directory	Purpose
/var/ftp	Used for <b>ftp</b> server base
/var/lib	Persistent data modified by programs as they run
/var/lock	Lock files used to control simultaneous access to resources
/var/log	Log files
/var/mail	User mailboxes
/var/run	Information about the running system since the last boot
/var/spool	Tasks spooled or waiting to be processed, such as print queues
/var/tmp	Temporary files to be preserved across system reboot; sometimes linked to <b>/tmp</b>
/var/www	Root for website hierarchies

✓ Complete

