



## The main ... UNIX directories

**/bin/** commonly used executable commands

**/boot/** contains the system kernel and the files needed for the boot process

contains device specific files; some of the most important are:

**/dev/**

<b>hdx</b> - IDE HDD, CD-ROM	<b>ttyx</b> - serial port entries (mouse, modem, etc.)
<b>sdx</b> - SCSI HDD, card readers, flash drives	<b>lpx</b> - parallel port entries (printers, etc.)
<b>null</b> - a black hole where data are send never to be seen again. Anything sent to <b>/dev/null</b> will disappear.	

```
» ls -l > /dev/null 2>&1; echo $? # error - ls: illegal option -- 0
1
» rm /var/tmp/home_franky.tar.bz2 2> /dev/null
```

## The main ... UNIX directories. /etc

- contains system configuration files; some of the most important are:

**/etc/passwd** - the user database, with fields giving information about each user

**/etc/group** - similar to **/etc/passwd**, but describes groups instead of users

**/etc/fstab** - configuration file for 'mount'; the the filesystems mounted automatically at startup

**/etc/initrd** - Boot-time system configuration/initialization script

**/etc/httpd/** - directory containing Apache configuration files

```
» grep "sanda" /etc/passwd
sanda:x:2514:575:Sanda Avram:/home/cs/cadre/sanda:/bin/bash
» grep 575 /etc/group
cadre:x:575:
```

## The main ... UNIX directories (cont.)

**/home** contains the home directories for the users

(libraries) contains system libraries, and some critical files such as

**/lib** kernel modules or device drivers

**/mnt** contains filesystem mount points

**/proc** (*procfs*) virtual filesystem showing information about processes as files

**/sbin** system binary files, being generally accessible to the system administrator

**/tmp** storage for temporary files which are periodically removed from the filesystem

## The main ... UNIX directories. /usr

- contains executables, libraries, and shared resources that are not system critical

**/usr/bin** - all binary programs distributed with the operating system not residing in **/bin**, **/sbin**

**/usr/include** - stores the development headers used throughout the system

**/usr/lib** - stores the required libraries and data files for programs

**/usr/share/man** - the manpages of various commands

**/usr/share/doc** - documentation for programs installed by users

**/usr/src** - the uncompiled source code of some programs

## The main ... UNIX directories. /var

- contains files that may change often

**/var/log/** - contains system log files

**/var/log/apache2/** - contains access logs and web server errors

**/var/log/spool/** - (*spool* directory) contains print jobs, mail spools and other queued tasks

**/var/mail/** - where all the incoming mails are stored

**/var/tmp** - contains temporary files which should be preserved between system reboots.

# The End