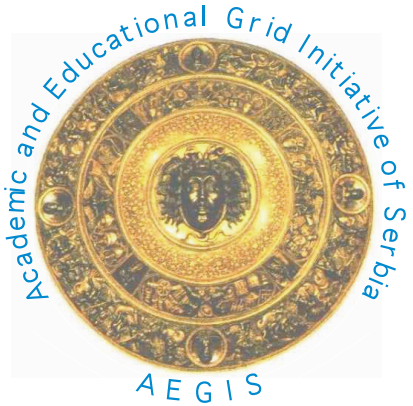
Unix Shell - Basic Command Line Instructions

Vladimir SLavnic

slavnic@scl.rs

Scientific Computing Laboratory

Institute of Physics Belgrade, Serbia



SEE-GRID-SCI

SEE-GRID eInfrastructure for regional eScience

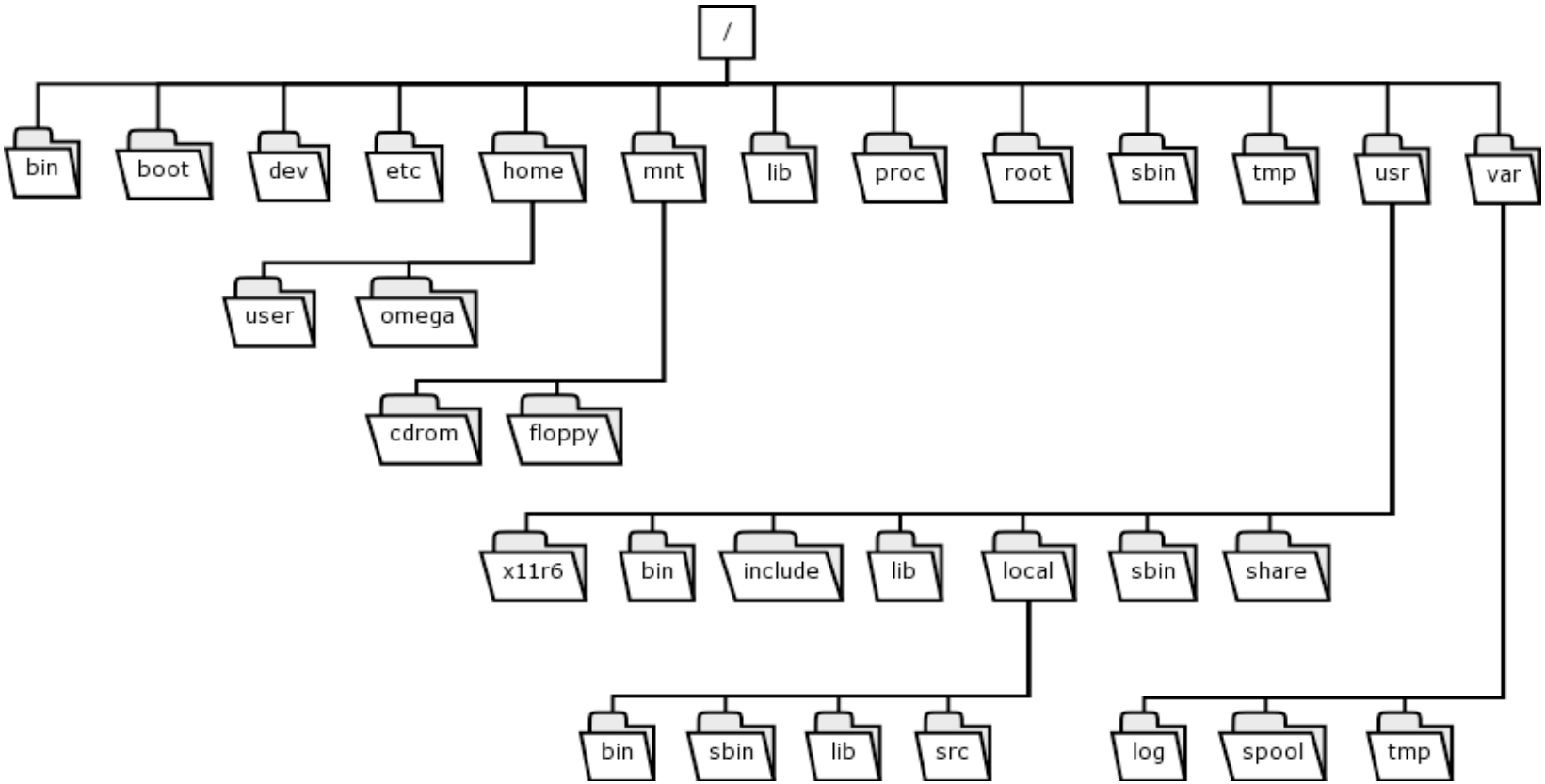
Nov. 18, 2008

www.eu-egee.org

e-infrastructure

EGEE and gLite are registered trademarks

Linux directory structure



Linux Shell Terminals

- gnome-terminal
- konsole
- xterm

ls

ls - list directory contents

ls [OPTION]... [FILE]...

List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort.

switches

Almost every command has a numerous switches to use.

ls -a

ls -l

ls -lh

ls -1

man

Easiest way to know how to use linux command is by using manual.

man ls

pwd

pwd - print name of current/working directory

```
vlada@graph:~$ pwd
/home/vlada
vlada@graph:~$
```

cd

cd - change directory

absolute and relative path/addressing

. - current folder

.. - folder up

~ - home folder

/ - system root

mkdir - make directories

cp, mv, rm

cp – copy

cp <path/filename> <newpath/newfilename>

cp -r

cp -a

mv – move

mv <path/filename> <newpath/newfilename>

rm – remove

rm <path/filename>

rm -r

rm -f

chmod, chown

-rw-r--r-- 1 scl users 180 2008-11-17 14:51 linux

chmod ugo+w <path/filename>

chown username:groupname <path/file>

cat

cat - concatenate files and print on the standard output

cat [OPTION] [FILE]...

Concatenate FILE(s), or standard input, to standard output.

less

less <filename>

/<text> - find

q – quit

Less is a program similar to more , but which allows backward movement in the file as well the forward movement.

joe

joe <filename>

CTRL+k h – help on/off

CTRL+c – exit

CTRL+k s – save

CTRL+k x – save and exit

ssh

Secure shell

ssh username@host.domain

ssh (SSH client) is a program for logging into a remote machine and for executing commands on a remote machine.

ssh username@host.domain command

scp

Secure copy

scp user@host.domain:path/file user1@host1.domain1:path1/file1

scp -r : secure copy directories

scp copies files between hosts on a network. It uses ssh for data transfer, and uses the same authentication and provides the same security.

scp

ps

ps aux

Report a snapshot of the current processes.

top

Display Linux tasks

kill

Send a signal to a process