

Free/Libre and Open Source software

Lecture 4

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Processes

Process status:

SYSV – ps [-efl]

BSD – ps [-][alx]

nice - run a program with modified scheduling
priority

renice - alter priority of running processes

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Jobs

prog args... & – background job running

^Z – suspend current job

jobs – jobs list

bg [%jobN] – resume suspended job jobN in the
background

fg [%jobN] – resume suspended job jobN in the
foreground

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Signals

`kill [-s sigspec | -n signum | -sigspec] [pid | jobspec] ...` – Send the signal to the processes named by pid or jobspec

`kill -l` – list of signals

15) SIGTERM – generic signal used to cause program termination (default kill)

2) SIGINT – “program interrupt” (INTR key – usually Ctrl-C)

9) SIGKILL – immediate program termination (cannot be blocked, handled or ignored)

1) SIGHUP – terminal line is disconnected (often used for daemons config rereading)

3) SIGQUIT – core dump process (QUIT key -- usually C-\)

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Offline execution

nohup – run a command immune to hangups, with output to ‘nohup.out’

screen – screen manager with VT100/ANSI terminal emulation

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Later execution and scheduled commands

at, batch, atq, atrm - queue, examine or delete
jobs for later execution

crontab - maintain crontab files for individual users