Program: collection of instructions on long term storage

Process: a running program (loaded in memory, instruction pointer)

Process Attributes
- PID
- PPID
- UID
- GID
- nice
- terminal

Process States
- D - uninterruptible sleep
- R - running
- S - interruptible sleep
- T - stopped or paused
- Z - defunct (zombie)
System Administration

Process Life cycle

parent process (e.g. bash)

fork()

wait()

child process (e.g. ls)

evac()

exit()

wait() finishes

Signals

Messages sent between processes.
Numeric value:
Names: interrupt, sleep, kill, etc.

^C

^Z
System Administration

Commands of Interest

ps, ps x, ps ax, ps aux, ps efl, ...
kill -HUP, kill -9, kill, ...
killall

top

vmstat

Files of Interest

/proc/cpuinfo