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)
Process Life cycle

parent process (e.g. bash)

fork() wait() ...

child process (e.g. ls)

exec()

wait() finishes

exit()

Signals

Messages send between processes.

Numeric value.

Names: interrupt, sleep, kill, etc.

^C

^Z
System Administration

Commands of Interest

ps, ps x, ps ax, ps aux, ...
kil -HUP, kill -9, kill, ...
Killall
Top

Files of Interest

/proc/cpuinfo