

State
Action

"instance"

## PCB

x meta-data/information about process

### Context (execution)

+ regs, PC

+ memory

### accounting usage

+ priority

- time on CPU so far

### files info

+ list of open files

### memory description

### signals

### state

+ id

+ parent

+ group

Ready

Blocked/Waiting

Terminated

New/created

instantiate

New

all instantiation actions done

Ready

Blocking Waiting

scheduled

descheduled

Running

wait for event

exit, kill error

## State transitions of a process

### User-level process

read (fd, )

Terminate

H.W

run queue — queue of all  
ready processes

Q  
What are implications of  
using a run queue w/  
multiple CPUs?