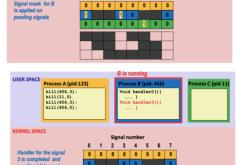
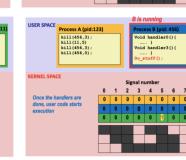


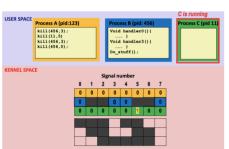


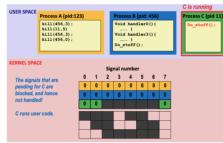
pnb= pending & ~ blocked













hardware interrupt = 8, 9, 11

OS event = 1, 13, 14, 17, user input

process request = kill () - system call

Lernel delivers signal to a destination process by updating some context of the destination process pending = signal is sent to process, waiting to be delivered

there can be at most one pending signal of any particular type, not queued, first one is pending, rest discarded a pending signal is received at most once

blocked signals can be delivered, but will not be received until the signal is unblocked

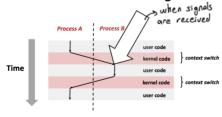
process groups = every process belongs to exactly one process group

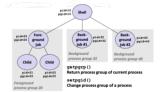
if signal is sent to group, every member receives

when signals are received

Process A Process B user code

user code





/bin/kill -9 24818
 Send SIGKILL to process 24818
 /bin/kill -9 -24817
 Send SIGKILL to every

ignored

reacting to signals = ignore (do nothing), terminate, catch by a signal handler

SIGCONT

beach signal has predefined default action = terminate process, ignore sig, stop process until restarted handlers = handler\_t \* signal (int signal-number, handler\_t \* handler)

Bignore, revert to default, catch & handle

- after executing user defined handler in kernel mode, returns to the next instruction
  - kernel uses the same stack for handler as process's stack

implicit blocking signals = kernel blocks any pending signals of type currently being handled (ctrl+c > ctrl+c) explicit un/blocking signals = sig procmask function > can change bits in blocking bitmap