

xv6©-rev10
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kill syscall

Carmi Merimovich

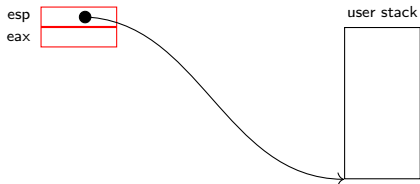
Tel-Aviv Academic College

January 5, 2017

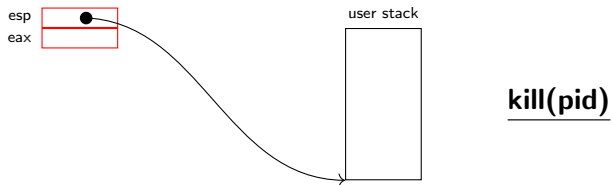
sys_kill

```
3779 int sys_kill(void) {  
    int pid;  
  
    if (argint(0, &pid) < 0)  
        return -1;  
    return kill(pid);  
}
```

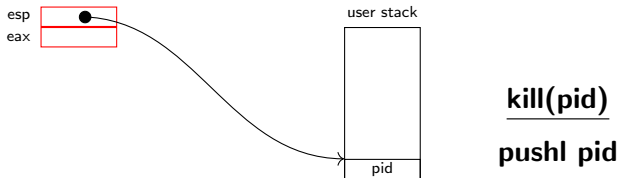
kill invocation



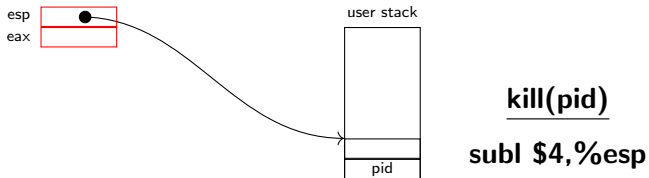
kill invocation



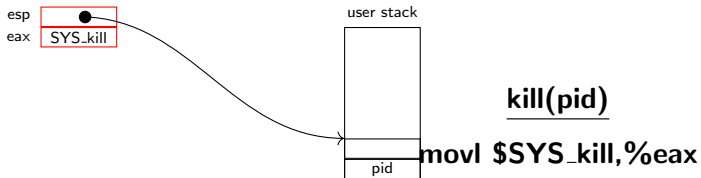
kill invocation



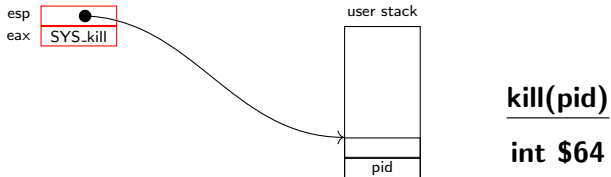
kill invocation



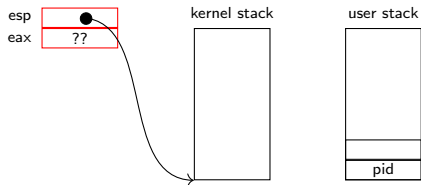
kill invocation



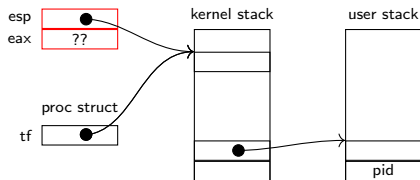
kill invocation



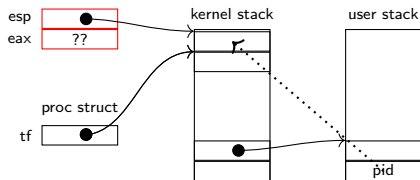
kill invocation



kill invocation

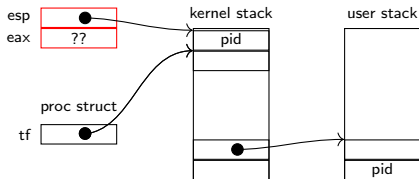


kill invocation



SYS_kill()
kill(pid)

kill invocation



SYS_kill()
kill(pid)

kill

```
2975 int kill(int pid) {  
    struct proc *p;  
  
    acquire(&ptable.lock);  
    for (p = ptable.proc; p < &ptable.proc[NPROC]; p++){  
        if (p->pid == pid) {  
            p->killed = 1;  
            // Wake process from sleep if necessary.  
            if (p->state == SLEEPING)  
                p->state = RUNNABLE;  
            release(&ptable.lock);  
            return 0;  
        }  
    }  
    release(&ptable.lock);  
    return -1;  
}
```