L1 専3強 1151035と Switch context. => PC, Sp, reg, OS-Special layer (3) Profeetilan (Mocess) code data file => including: Kernal - sys calls reg reg reg Stack stude steele 1. Reliability Build-in library - CHb 2. Security
3. Privacy Drivers shell 4. Fairness Shell is terminal => Bash (4) Dual mode Kerned / User. Process in hierarchy Sys call / lib calls Mode swich * Sys call o interrupt 中的量. V Stack FILO Then p Segmentation

Pata segment File Allowells

EUT > File Allowthen Table
FAT32 · Trap / Exception Con seem t -> 4 G = 232 L3 fork () return child pid 10 WTFS (in parent) Text segment malloe () New Technology file system encer() 清空麻地地空间 305分配 宣秋内容 新维化机合石面包表 register / cuche / main memory Wait() 编译子进辑 SIG ChILD DMA => direct Memory Access 若了进程已返到, 车接返回 Kernel Outa servet imit () - first pid. PCB Process Control Block. 1) Thread. User time CPU time in User made. sigle Unque execution context. fully clescribe program State Sys the — Kernel mode LPC, Rey, Execution Flags, Stack] fork() In Kernel @ Address space. 2" = 4 G up date PID (quartine. / Posht to partent In Child, and list of Children in parent. set of accessible addresses & state associate with them.

user space. All copy opened File O Stdin 1 stdone 2 stderr exec() User space: Clear local var, Dynamic alloc mem Reset Global var, Code / constants exit () free All In User space. But Not in Kornel. Still have ontry In PCB, 反进程接收 SIGCHIL 国始处理 避難 Signal handlers 海坦这国清理的时间。 未满理 的 linux 气筝中 defunct le-parenting by pid => init 類如 parent point / list of children SIGSEGV ISIGCHLD SIGINT /SIGTERM /SIGSTP + C 12, W SIGCONT | SIGKIL 同步/乌芍杂茚 SIGFPE 海红 Context switch 1. Yeg 2. address space (expensive) [3. TLB / cache /buff reload] Real XRMin Sys - Kernerl mode User - user mode

user > sys band by CPU user < syc bond by 2/0 PCB 用的链壳管理 洞霞霉落 1. Short Job first 2. round robin 3. Priority ~ wait Time: TASK (开始一到达)+的学 Turn rand: TASK (会成一到过) Turnround - wait = 实际这分 Preemprive 抢点义 Inter process Communication 1- Pipe / named Pipe 2, signal POSIX 3. Message 4. Share mem 5. Semaphore 6. soeket Race Condition 美報 Solution 预满起 1. Mutual exclusion 16-2. Boundell waiting ARUF 3. Progress 福油" 1、°CS 直接 民能上的抗损 2. Basic spin loele 北之 3. Pterson solution 4. Se maphore 5. PosIX Semaphore if => post +1 wate -1 6. mutex-lock

share obj'. multi process, concurrency