Thready encapsulate conditions. 'Active component Shared State: Heap, albort votiables, Cole, File obscriptor Retolourss space encapsulate protection: 'Passive' Component Shared State: Heap, albort votiables, Cole, File obscriptor Per-thread state: Stack File Stock in infor, Saved Registers, Thread modified PR olegend on nice value (-20 to 19, olegalle statheads: Single unight execution context: fully describes program state. P.C. Registers, Externition Flags, Stack. Tead static data Appliess Space that is desirret from Appliess Space that is desirret from Appliess space that is desirret from the memory space of the physical machine. EXECRE): USOr Space: old coole new coole kernel space; closer board writables and dynamically reset along memory of and coole to. Switch Overhood Process creation Protection Shorting over Low Lonly CPU State) bow 185 / well bours Scu its h works weny bow Special layer of software that provides application software access to hardware resources include programs. Kernel, drivers (05 provides abstractions to apps, Manage resources, achieves the above by implementing specific algorithms and techniques).

Theress, Aprocess is an execution in scance of a program. More than one provess can exelect the same program code, contain: PC, min can instance of an executing program is a process consisting of an adolless space and observe threads of control, files, possible its a furtion call exposed by Kernel, Entaintly, Endirly, chountly, chimolly, practly, scanto, mallocly, from, folsous) thrend of expensions (cinchartion architican) instructions thrend of expensions of containstance of other or o cons. Bud for time in Anishing tasks von Neumann architeture Sontext switch: Indirect cost: Some and restore rejeters; switch address space CPU State Manio low high low Couly CPU State) request dota inter Dual mode: Rether model supervisor, protected) User mode. Normal programs executed Chair a CReatishing, Searing, Privacy, Fairness) von Neumann a Parent exit > children re-parent to initipial=1) Hyper-threading (2t/long) signed cultimer forestolenel river better signal terminal file system exit of U schedualing virtual memory Processes (tch, 1000) single and Mubuthmended fraces i Unix System Structure Toucout, inter-110 kernel interface to the Abadware physical meanory clarice controllers Threads (10000) Preemptive scheduling fros: Good for interactiveness Thread yelled Thread watefor T
sthread yield() Thread watefor T
sthread fount
() Rescunds Throad Throad Exit
Running Sthroad Exit Uzer male ornet space: FCB, Kennedialls with system! UNPROGRAMMED CONTROL TRANSFER latinblus, Dynamically-allocated memory latinblus, Cole t contents. (mode bit=1) Interruptible Uninterruptible
Blockeelfyeitha stypes of whode thansfor: Siscull, Interrupt, Irap or exception ser space. Global variables, Local Beech Ready - Running sthroad created paces life cycle wode data. Alles projectus 5 | 5 | 5 thread