Rocen states - excepting becomes really alone partless to bose a pocess waiting of BUN it is them of the um state aldbourde boro Ha Dyou don't atually me when the 05 decides it had smough FINISHED its resources are decord extreme of whom liters - when wait in der -> READY ame to a account with time becomes Duarn -bab and footh READY -> RUH during that is usey using more threads M. Ebra Sobl with god shoot blast Aceste mocon 7. celene CPU, free
2 est CPU
3 releve CPU mocon READY: down t how powers - the Os and wheduler are seep. for SWAP - the mam occupied by Mocen get but is ready for it the process drosen as a victim b Ori grade review transfer toom -: TIAW and review review (sell) of strain law) 4. move on diabx \* free mem Thue of it just into own ? 5.100 or wait - an extention of the memory 6. fee dish space, allocate marm. slower than the CPUI restlected to excuse ten ere observed two corresponds advantages Process regheduling 6t out : - stop a pocens tion policin -First come first sei 3, A, & (=) Dated a deadlook - there is a cycle YOU DON'T LOCK A Tion Dim coopsay Doma-4 12 - chedring for this is done RESOURE MOULOUX for big ones 5 7 ( ) BA,C,D (2 Nec. delay)
B,A,D,C (Apric delay) harm: Slurays look tham in the HECHANISM AM ASSOC. SYNCHR. Atgres doj stamitas / wwoned some order IPA ROY RACESPRE mi sbundo adoj trada noisubre lautum - we -bde, held, try to lade again -mon personation (mot steding my lade while I have it 9 Ruocilies -the eath moons and give it a avanta of time to the it and of the processor of the that time - higher piocity jobo go first on mother sies, deliction, etc. DEAD LOCK - ntoth again A5 Victual allocation - pased - plut physical mem. into pagus p of fixed bytes RM ELLY - PAM -> chen board Replacement methods (what to do Hemory address translations mem blut ment - Use waison in memory to able to basican in memory 4AWE mi tiy see ason nowh-- Compiling - do jost files (do jost momen = gone) - diadoing - secuidable - RAM -> chan board -no more contiguous mem. popular featurently HAR in moitisal c- areables c- moitisers-(the held) orang mobrion - OTIT tigh no ed ton liver court on onmedical MAR taxe with Mad set of abortom maitcally - virtual addrew = virtual bade - the process come right after (you cannot dronge that) Hot recently used -moch every page with a bits Englis bono enote as Justool boug bono stirulbas muku 1 -As Virtual allocation-regrested - the complex will hardcode the loc. of o of ten - from the need to accommore mem. tuo truit 00 the postition that could be allowed - O A second -con run multiple pocesses - 10 third - Matactad marmory access - commod rum a macanan that have to be executed ntool 1 1 tensores eldocuer-- causes hagmentation - macain = argment atout + affect least fragrecantly called - mxm bits - commot rum a mossos of the patition \_ common hordcode physical mam. address within the segment - when a page to occurred line = 1 YOU HAVE TO HAR CODE you have to had cade into the executoble on affect cd =0 from the beginning of that portition as Jolly (= bear ters -Computing at runtime the pryried oddiers yespowen part peut peut - min. sum lin = first out - regimentation + paging - mam, address = segment + paget affect Malloc/Free calls. over address = physical address - been trock - mo fragmentation occ. mem - been a limbed lists & free mem. -9 Jackmbu exec address = offset phyrical address = partition start + offset Loading mathods (housemuch do last one load) booksole maitition besil-dook som itlet toth - no need to reach byte by -limited m. of programs we can run (connot run more simult. Holm the m. of potitions) A: fot evec. byte -> jump through the 1 : Alow statup tocarpy man. for unused ling - FRAGMENTATAN - limited by siac of the magram (commot rum a magram larger than the existing potition) Load furt page their when medeal time place in mem: Event fit < float address fragm.

Best fit Theorem of the Rose for the Rose fragm.

Best fit Theorem of the Rose fragm. Homem better on: A dail of of ege = go to the dish -dynamic stat of the politican (seach in mem) really ting slices -md more since limits / process m. limits · leover leage dices ocality pumciple: - D: regmentation (a pocess of lorge size commot lit into a contiguous space although Helotoh pages im advance (the tay , and all the one just there is space ! BURY: alla a chumb of the appeared (bebook

Mounting = amaciate a n'orage device to a porticular location in Buddy - been a list of free chumbs of powerflot à. the directory tree -allocate the lorgest chumb and distribute Sombie macen that has completed execution but still has an ontry in the the remaining mamory in powers of 2 Mocen toble Copaid by using wait said tracy tud pristisses elito montpo File types: regular, directory, fife, rabate havenes us Thrush: - powerser com contain a one more thrush made - guides to evade to muitch between threads Shupping or our s bap want - onore doto coorly while ovoiding thoulan duplication (it just creater were smode for the spormetite a stack in the impure particulable by pocesses it copies the entire - con reference to acrother disk trop enyme - delate file = pointing to file that mo bymonomiation medicinism. (creating a thread pthread-create(TCi], HULL) larger exists - behove as the toget file dividory the threads bottle for the mutex and the one to get it gets to execute the (abalmu-abal ebiami moutsuntami - goes to a file tion his ent-Hord limb en nome limb - when done, unlose, the bottle stock again - mew imade for the name file Read Write Roda: ( atheir but) took and of non--they exclude eachother (es s) shows - shows - bounty (show stown, show boar) about a maloda (es el) -delete like => a like is deleted only ladrid bid som on so with menter (retircu < about moitourotolimbed to it - 11 - unloda (8 28) Semonhora: - gous to data decide how many throat can execute an instruction simultaneously Unix file pystem structure reduce congestion (vestrict concurring) Block Content tion - mad now of word word doold feed teal - wood 0 lets a thread wait with told by onother thread to usbe up Super blook Compre the porons signal (or breadcast for more threads) the heads of the pthread-comd-wait (&c, & mtx) - wait (hosto how a muter) pthread-cond-signed (&c) blocks in - report is a light of the matter a light that a come of the matter adjusted on the come of the come o M+N Data blades always used with a mutur and the orty point to the file (a - waits for a given m. of threads to finish executing pthread-bon-init(orbon, M)
- mad roundable (once used it commot be reused) pthread-bon-init(orbon, M) (adod) is indicalled a ci elil a first few positions (He x 5/2) - mot remodels (Since used it commot be reused)

- direct occess (asimonomemory block) 1-10 - reuse it by destroying - initialize again 1- (abomi a lot retirios a) traiber elymicaas stored in a buff in memory (42 x 861) SA- trailer aldued (betermos a gritira on litra) Deto to truemo pro rof atroca abour -triple redirect-13 (1283 x 5/2) (betsemmes as kelous on litere) about adot exop you so atroca street Codher reprosence aft mil mapoimported heat cather atou the page of loc. page add Borie drib me alit afi of other piece
- but and simple
- may lead to cooks trashing (collision) - open for wate (waits until opened for wate)
- may lead to cooks trashing (collision) - open for wate (waits until opened for read)
[[a-z] - 11 - intervel
- mat bidirectional comm.

| beginning of line o only door. [10-9] every may \$ the interesal menys no mi word group () P brown to kno </ brown to primnized >/ smil to kno & through the cochi \* pusious exp. 0,+ 14 pretions exp. 1,+ 1? previous exp 8,1 time wash whiter -I know to m took a use nucion of mand m set associative coche - host toble 1 logical or - the coche in org. in note of pages 4)-E "..." 2n-Q - the not of a page is computed or -E"51 / gi" - duplicate /Milgi - nuscon 12/1/19i noge address % cache net ..16' 117- ober Begin - a her loc. is found by iterating 1/20 ping 1001 > 16 1 through the code (net) MR- current line MF - the m of field con the our line Derible tugni entro od . avoid collision - doesn't use all ossibbolo code lives \$1,92, ...