(FILE)

NAME OF INSTITUTION

FACULTY

COURSE CODE

20800

LEVEL

LECTURE

LECTURE DAY(S)

5

BAY

VENUE

IME

OPERATING SYSTEM IT CSC 305 Structuring Method of Abstraction

Drocessing of Resources
Concept of API device organization Interput Schooluling Algorithm
File System Dractical Secondary store a a famille duc Os

Common loques structuring method of Abortraction by Os means schedul formand because of his distraction of his process of his as Intermediary Litur program & Computer harduser. Os Jerus possend System u a System Software Was marages Component of momola static data stack rade theap Moss Invariant and washing In actions Space of Loseling:

Processing of Resources - Conte 1- is to Craste processes with method. we can have new I that ! - is to wait for a process to stop running. - Destroy: - or to deatroy processes forcefully into the food. - Muschallerious Control is to promole method for Susponding a process. At Mothad for Suspending process, then resume and Continue running - status is to get status Information about a process. How to get Intumation or startus about a process How long it sow run Ethat state the process is in. The Concept of API device organization Internet.
This is a mechanism for allemating the delay caused by the uncertainty and maximizing system performance. processor execute instruction we have deferont types of Interrupt:)-External Interrupt D'Internal 4 Input & output denices. 2 Internal Interrupt: They are used to allocate CPU to different task in a multitasking os with no aitput/Input devices.

(3) Software Interrupt: They are generated by a specific Interrupt Instruction. In the CPU Instruction set.

Queue Theory Thurs the mathematical study of waiting time of queue in which a model is constructed so as to prophet in waiting length and waiting time. Different problem that I nuo luer Quening & wouting - Quene. - Computer - failure solution. ble have two majortype of queue O Ynbanning of Queue 2) Bounded 4 O Unbounded Queue: Et can grow as large as necessary to hold all O Bounded Queue: It can hold only a fixed normber of waiting Gustomer or not even accomoclate at all. (1) Armal process 2) Service mechanism (3) Queue characteristics 1 Arriver process: Et deal with how Cartomer arrive, how the arrivers Dervice mechanism: Is a description of the resources meeded for Service to begin: Et will also tooks take the number of Serviers

analable. It will also consider whether the Server are In Sener a parallel and it will also consider if prehen from is allowed. 3) Quene characteristic: Is to choose the one to be Served next et can be called grune discipline. Ang fifo, LIFO, randomly. Schooluling Algorithm for schechling scheduling is the process, of Arranging, Controlling and optimising work and In the production method and manufacturing process. Scheduling is also used to allocate plant and machinary resurces, it will plan for production processes it will plan to how, to purchase material for the production. Categories of Scheduling Algorithm 1 Prehentine Scheduling Alogrithm i) Non-prehentine li (1) prehentine is normally define as a process that are logically runnable. Et is prioritize. Et is scheduling discipline and a scheduling algorithm to be premembrue if the process has be guen to a court can be taking away by any time. 2) Non-prehentine schooling Algorithm: is a process enter the state of the process cannot be deleted, it would allow it to finish it Service time before the PU. THE or the method and days where the the own Os was to keep Resource protection the replacement of any of the ousential system the prevent any exertial system Bloom Bloom ramples are of the protection will always protect all the registry Roys and A resource sharped of sharped source is a Computer resource made amounted notwork. Sharped source is also made possible by Inter sharped resources is also made possible by Inter this sharped resources is also than as sharped cliste. Comples are Designment Prehumine and non-prohement Afgentim. Drimber devices Computer programs

the file system also refer to a partition or clisc that a weed to stoke the file System. Management of Secondary Stores
Generally, for Computer Storages which are primary and Secondary Drimary Storage Known as RAM 11 called Internal Secondary Storage Drimary storage & Kassowa as local disc, is storad inside the is reflered to as disc in an external stronge ouray. It is more faster than Secondary storage. It is place very dose to The CPU because it i located in the CPU. The purpose is to reduce the amount of time it takes to more data between the storage and the QU Secondary storage is also called Auxiliary or External. 71 is a Mon-uo lattle strate because it is not under the control, of CPU. If aloes not have chreet Interaction with any application of provide high capacity but to it own instaction is the dark may not be immediately acceptable. It is used to backup any of the primary storage, olasta or coplication. The data in secondary storage may not be as current as dasta 'In primary storage. It also use as other data

Secondary strage istanagement.

If we a classified fearitime of dailabase management System. It is unally supported through the use of O'I nolax managem (2) Dada clawing (3) Dada buyaron 4) Access part selection (5) Query optimization Generally the Combination of primary strage and secondary storage allows the Computer to take achieved age of I that sound some (1) High Speed 2) Low Capacity 3) Relatively, law Speed high capacity 3) Mon-ustable storage If a the ability or authority to integrated with a Computer System of always result in a flow of Information. It source as Into action Any otherwise, i.e Intovaction with or Computer or Information without authority is reflered to as Hacklanger Aksetsing Cracking while the person performing it is known as Hacker or Cracker. System file is a cristical file in Computing and without it, a

System files

Ele clant change it, clerete or move them. Most of the Statem

files are inclosed and cannot be elebeted. Justam tile can be

added to any file in unnolan or closs. But of you are adding to

System file cheeker is a tool used to apair comupt System file

fied as been damaged on missing. Of is used to softwar a Computer

back to its normally computer environment. as just of 05 may also come as a third party device driver; it their more valuable System file with System Cisys. The system the may come to the system file with System Cisys. The system 6 IO. Sys Page file. Sys HAL. DLL · Exe Ms Docs. Sys

-> prout the power button on your system.

-> After two minutes

-MBR - Mater Boot rocard.

The function is to locate the bootable sectors us have with the os.

MBR is locate that floor of the bootable dirk eig lober had low

SDA. MBR is loss than SIZ before in Size with 3 clifferent Components - Run level programs

A Key can be prossed during the loss startup to change the booking sayuence (fiz) book loaded & sexecute MBR boot loader. The booking - humal - GRUB Similtaneously cuttout and interference multiple process normally exist tow the south and interference multiple process normally exist tow the souther thanking and be Edily observed in waix like as. PAIN PALING A WA

- Grub stands for Grand classed boot loads. The major function of grub is to display a flash screen. At grab stage if you to not enter anything it will load the default knowledge of the file System or grout light grub land and I grub. Configuration flow. Kernel & Initial. when grub-(onting is running. Known will execute this program /SD/in. the partition table 146 bytes is the primary boot loader into, next 64 bytes a the partition table 146, MBR Halidation chock is available and it occupies bost loads! MBR Contains Intermation about GRUB mel it loads & execute the grub

Interest the first program to be executed by linux kernel, it has a presser is used by Kernel as temporary not file System and it will be their until Centain recessary drivers that Compile words file System is mounted. This this kinel to access the brand dock, partitions, Oddriver, etc. The function of the Int is to look at the initial file, and to decide the linux run level

Different examples of run level (O means halt) O run lowel - means single usor mode 2 - means full multimedia mode 4 - Unused 5 - X11 6 - Reboot Int normally identity the default init level the instruction etc, - Inttab file. The Init will identify different our level and will make Stop use of it to load all the use program. Different run level that can be set 1 To O or 6 you can reset 1 You can reset from 0 run Lovel to 6 run level (3) You can reset it to 6 4) You can reset it to 5 This is when the linux System is booting up. At this level, several run level program is when the linux os is getting started Under the - ede, - red, - ret, d - dir. There will be program that start with letter S and Capital letter K S there is for start up and K is for you to Kul the System which means in other System shut down

The page System will normally execute a program from one of the following directories at the run level.

at run level 0 -> / ETC/RC.d/RCO.d/ at run level 1 -> / ETC/RC.d/RCI.d/ at run level 2 -> / ETC/RC.d/RC2.d/ at run level 6 -> / ETC/Ro.d/RC6.d/

The recognize and accepted way to shutdown a linux os is to use the shutdown command.

Steps to shutdown linux
Step 1: Open a Command line terminal through Sebeet application
>accessing > terminal.

Step 2: Switch to the not use of typing sy or Suclo at the Command prompt. Sucho stands for S. when prompted, you enter the root password.

Step 3. Type in the following Command to chutdown the System 0# shutdown -h +0