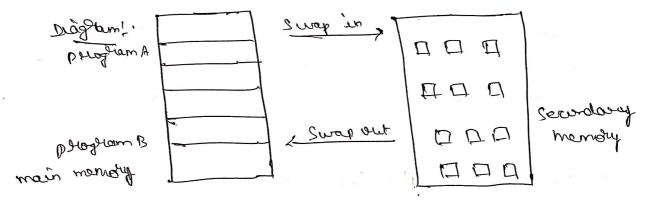
18CS43

Shahul Hamsed & 1KN18 62097 CSE' A'Sec 4th sem

Explain demand paging in dollar.

D

paging is a pewers of Ewapping in the vortical Demand mendy system. In this process, all dots is not mard your hard down to main memory because while using for demand Paging when some peruglanes are gotting demand then deta will be tolarsperved But, if required data is already Existed with memory then no need to copy of data.



Some page replacement Algolithms are used in the demand paging concept to replace different pages, such as fixo, LIFO, optimal Algorithm, LRV page, and Rardom peplacement. page perforement algorithm,

premary actess Time = 200 ns Bi. Arg, page juilt souristime = &ms.

> EAT = (1-P) * 200 +p(2mg) 2(1-P) * 8000 + 8000 000

> > = 900 the 1999200

~ Muntageg1_

- not supported to been on.
- · Engy to Shore all pages
- . Early to swap all pages.

Disadvartages!.

(g)

- . Set manoly acoss time is benger.
- · page table length Register (PTLR) has limit for resitual money.
- what do you man by gree space list? with suitable Example, Explain any 3 matheways of gree space list implementation.
- A file system is responsible to allocati to gree blocks to the give there to the give the gree blocks of all the gree blocks.

 Present in the disk,

3 methods of free space list implementation

- Dehiked light, In this approach, the gree disk tolocks are liked to fether i.e a free bleck contains a pointier to the next free block. The block number of the very first disk tolock is stated at a separate bootson on disk and sits and coched in memory.
- Generally to this approach stores the address of the free blocks in the 1st trice tolder, The point free block store the address of Bone, Say of free blocks, out of these or blocks.

 The 1st n-1 blocks one actually free and the last block contains the address of rest gree or blocks.
- Ocalesty this approach stores the address of the 1st flee disk blocks of that pellow the jiert block.

Every Entry in the just would contain.

- 1. Address of 1st free dist block.
- 2. A number n,

- 3 Describe various He allocation mathods.
 - (8) Contiguous albootion! Fower file occupies a contiguous set of blocks on the disk. This means that given the starting block address. and the length of the file, whende we an determine the blocks occupied by the file. The disent -oby centrity got a file with contiguous allocation contains the Address of starting block.
 - * length of the allocation position.
 - O Linked light Alboration! In this, Each file is a linked sight of dight blocks which read not be contiguous. The dight blocks Can be scattered anywhore on the dight. The dighter entiry entiry contains a pointed to the stainting and the Ending jue block.
 - Condains the pointiers to all the black occupied by a file, contains the pointiers at all the blacks occupied by a file, Each gile has ide own index black. The it is the july in the irden black contains the diff address of the ith gile black.
 - Explain the volume types of diaertory statististic.

 (1) Single level directory! The single level discertory is the Simplest directory statistists. It it, all files are contained simplest directory which makes it say to suppose and whether same directory which makes it say to suppose and what same directory which makes it says to suppose and what same directory.
 - (B) I lavel directory! In the 8-lavel directory structure, but back out of the UFD.; The UFD.; The UFD.; have similar structure, but Each lists only the files of lingle when, The MFD Secretar wherever a new when

B

id logged in. The MFD is indexed by username of a/c noand Each the Entary points to tru UFD for that user.

- O Thee statistice discretary! It is the most common directiony Structure. The tree has a stoot douglossy and Every file in the System has a unique path.
- (a) Acyclic-graph discritify! An a cyclic graph is a graph with no cycle and allowed to share subdiscretiones and jue,
 The same file of subdiscretories may be in a different discretories,
- Esperaral graph directory structures. In general graph directory estructure within a directory estructure unever multiple directories Can be derived gram more than one parent directory.
- Explain components of LINUX System with a reat diagram.

System J.	realignas reser reservers
System instances	
kerral	
	Kosinel modules
1	
Hasidware	CPU RAM EU

components of TEMNA OC

(E)

- 1) Boot brader! This boot process needs guidance, and your of process in transport the book process of it is 20 would not process the process are process are process are not process are process.
- 2) OS larner: It is the post which controls the cpu, access to membry and any peripheral devices. It is the however level at which os works.
- Background tourices! These small applications acts as servands in the background, sensuring that key juritions such as Scheduling, politicing and multimedia juration coorectly.
- a facilité which lets you instruct your os using
- @ graphic Source: This provides a graphical sybsystem that renders and stopes on your computer monitor.
- Explain the acres motorix model of simplementing photocition in 05.

out been in contract of present in co. It is noticed as a material of present in co. It is nepresented as a material. Access metatin if the demain depire the suights of touch places severally in the domains with the subject. The shows of motion of the domains and columns. Represent objects. Each cell of material supplies set of access shows shows a proposed the straight which are given to the straight of the straight of domain means some first of domains, I don of operations that a process of domains that a process of domains, that a process of domains, I don

Linroke an Object O's,

F1 F2 F3 posisted

D1 read read

Paul
D3 read readerestate

D4 write read

write

According to the above notative. There are I domain and He objects - 3 giles (J. F., F.) and one presiden. A process executing in domain in D, can shoot giles, and F.. A process executing in domain In has some night as I, and J. but it can also white files. Printed an be accessed by only one pures sexualting in the Domain I.

Explain the interpretes communication mechanisms in LINUX.

- 1) Shored memory: LENON system provide & separate Aptsford
 Shored memory, the legacy System V Apt and mothe secont
 POSIX one. These APTs Should never be wixed in a
 Single application.
- Description of the money pitales that reset the use of giles in programs.
- 1) Message gruenas! messages, which will be read by one set processes to write messages, which will be read by one set more greating processes, Each message is trapped with an application on specific type, agreed blue the cooperating process.

Explain the jollowing disk schoduling algorithm in Grief.
(i) FCFS (ii) SSTF (iii) SCAN (ir) LOOK.

8

Placed at end of the queue, whatever number that is reset in queue will be the reset number Seewed.

To determine the number of head movements you would simply find the number of towards it took to move from one grapues to the result.

SSTF !. (Shortest seek Time Field). In this technique o's
will search just the shortest time maans this will
search which 'job will take a lass time of cpu jos sunning
exper soaning all the jobs, all the jobs are organized
in the sequence wise or they are organized with the
poliotity order.

scant l' E This approach world like an sleveter does. It scant the scand and the nearly the scand the nearly the scand that the bottom it scans up spirited and this the didn't get going down. If the sleepest that it has been scanned it will be serviced and the second seems backup.

LOOK scheduling algorithm! In look scheduling algorithm the cpu Scans the list grown storting to rind of thedric. In which the rousing processes one sunning and in the look scheduling the cpu, will soon the sentitudisk plan one and to the second End.