Attributes of a process	When Passer Paggarm Execute.
1 1845 17 1 11 13 13 NORTS	it noed degisters, Program
1) PID -> Process ID	(ountex, spuesal GPRs)
It is used to uniquy identify	while it is Executing Jox some
each and every process	reason of it has to so leave the
2) List of Device	(PV, So, to Some all these
3) PCOGPR	GPR, P(Valups, OS take a
3) Type -> Background, Foreground	(opy of each and every values
4) SIZE > in Mb, #.	of GPR, PC and Sove it into PCB
53 Memory limits 100 160	of that Process, So, that when
6) Priority 2) Stute 8) List of files = PCB	it sesumes, it can stast from
2) State PCB	where this process lett:
8) List of files	In PCB, also Some GP85 and PC
prinner nili zznarg and IT 6	registers are there. & Ram
PCB -> Process (ontrol Block.	
-> This also known as	PC SP COPY of PCBAPI OS
bears descriptos:	011 369121637 . See 368
-> all the attables of apacess	Pr is sunning
above are in the PCB.	
-> PCB is in control of OS.	The Content of PLB of a
PCBPI	process are collectively known
PCB P2 OS	as (ontext) of that process
Processes animal	when any otherprocess want to -
Processes Processes	Dun Expecto, then, Joom PCB
Inside RAM where Programs suns	of that process; as sand its ?
OX Exercise (process) [many	(assent Valups of GPR, PCety
process are present inside RAM	ho CPU, Southat it sesumps
with OS Some poot of it supry	
process has its own Reportal	The whole process of Copying
Repopsentation (OS (S, Stack, heap).	of context of each process to PCB
and all the attributes of process	to context loud of mounts
Parsent inside PCB, which is in	brokess I som bob to CBN
control of O.S.	is Called Context Switching
	Content Soul
	Context Switching -> Context Sour
	(avil 21, 100 th)

· Pacess Cannot access its own PCB	6
Stopa sunning process and	If process want to usp To
- Dun anouther process is called	devices during xxxx
Context Switching.	Execution (sunning shalp) git
· PCB stored in OS protected area	hasto leave the (PU and
- Context Switch is done by	wait jos Ilo everent , it
dispatchersund of 2 Un	means process is in waiting
194) P(Values , US take a	State A 270
Process States a booder (190)	if To, or Event is completed
101 11 7 9002 6010 J9 29al la	for this process then it cannot
Admitted Lesminoled	dispetly go to sunning State, it
(NEM) Hamitipa	has to go in bradystate, becouse
W/ 818 Horse Cooless 100	during its [locuent, ohrer process
196 (Ready) more (Running)	ask in Running . Shalping 1211 (2
Scheduler	· It he process is in running
Iloos Dispatch waiting	Shate and forcefully take out
Event JOS IIO	from norning state is cottent
(waiting)	means this process yet pre-
2000 110	empled and after preemption it
Brissonis Si 19	yors to seady State 1 900 900do
1) Newstate -> All installed	· 20 fo lastrad ni zi 809 C-
application process not running.	Process Admitted
mpans, only storedinming	Now (RESOURCE allocation).
and not woning means in new	(RPSOUBTP allocation).
Sharp, All installed process are	Running) terminated
Known to be in new state 9'23 mes	Running (Resource) terminated (Resource) terminated
Belove Running the processes	
2) Ready State of The State in	Process lan go from Running
which the processes are steady	State to terninard state 08
to Run waiting Jox (PU to sun	Running to walking shote by its
-ing to sun on CPU are known to bein Ready	ownwish and other transitions
	are decided by 05. To Holmes and
- 3) Running Stato -> process soulin	2291080 to 29th digito and 1/2 punda
- rg in cpo, sonning state	pagent inside PUB, which is in
4) terminating -> It process	· 20 60 108/20)
Executed and complete it operation	
then it terminales madely termo	
, post 7g mas)	
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Process	L-5 0
New to Ready : when admitted by 09	= JOURSS SCHEDULING
Ready to Running: " "dispatched &"	Cooksalla armaiar int
Running to beamin .: " " complete d	-> Scheduling is needed for better
Running to Blocked: " "go for I/o	BPSOUXCE Utilization.
Running to Ready: " " pxr-empted	- Job queue -> all the processes
Blocked to Ready: "" completes It	a hich are injob queue are kept ina
won and ring sound to	queur (Job queque).
(8-) [[there are 1) processes	· Ready queue -> all the processes
ase admitted, we have	which are in ready state are
mno-of CPUs, but mcn.	Kept in a queue called Ready
States (Process) (Process)	quevelo colomo o maide set
min max.	· Device queur -> all those processes.
Running. 0 m	which waiting for a Specific device -
Ready o O	ase keptina queve (Device queue)
Blocked O Mingel	Job queve Ready Runing)
	Soo dans Solves
TWOTYPES OF PROCESS COMO.	Devices 1
1800 gnox sojlagozdodu	[Device 8]
J. (PUBound -) must the	Devices
Process is intensive in	
towns of CPU operation and	bxor62262
e Sudvani ant trague & to	(soluted by most bill (E)
5) Ilo Borned 3 It publicas	Types of Schedulers
is intensive in beams of Ilo	Hill the Dangeries and into the
operations ad not grand	1) Long - team Shedules (Job) -
appe to us oper becase mostale	a shedule the process from
Approcess which has just the	new State to spady State
terninated but has to splinguish	two season for poinging new
its prsousces is called	- Shate to spady shate.
Soupre broners	O when(if) uses sons any
Grow Menory de BAM.)	program during that time to
liv respond now the bas	Hand Execute that Long-team
120/ 400	shedules shedule the process
of world form tother if.	John new to speady.
- 119 - 2 (aller 2 mgla) 21 1111	2) Jos back ground processes which
	are not initiated by user.

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(3)

during newstate to ready You got a notification of envil Shate . xesouxce allocation and you want to soply that mail Youpause the game and Switched to maily while writing 2) Short-term schedules (cru) as mail, you are listining to bremise I son spotify? & strold -> These are so many processes It mouns, RAM has now in Jeady Shite: to sun to CPU these process Junning -> Spotify) which process must son in CPU gone, muil, and already Os. decided by Shook team scheduler. 1, 209 SPC. Mem , Shorktpom scheduler only sul Selects The process, one of all spady processes to run on CPV Swapin Space ... These scheduler is needed because of frequency of usage. Short term schedules is used · now you wanto rom open Town Now Jeedmerth ? loud porm whotsupp for some work, Scheduler is used toggin long But Freses is no Space in RAM) ter long formed the 2909UP · So, Here comes Hid terming? Schedalis Compsinb picture Mid from (schedules) it Swaport the inactive process (come) into the Hard dist; Somat enough All the processes suns into the Space can be available and con RATT, and Elspady Some past of RAMIS Used Jours. able to use other process (whatsopp · after all your work, you go occupied by Os and semaining Us is for sunning the process back to game Jos securing your enjoyment, game book sometime det us takemanterample of inte Junning more process. They to load back the Soved home 1) Suppose you are playing a vory Joon Memory to RAM. big game , it means it occupied and this your progress will Some large space ad SKON 1000 34 5 not lost Duxing playing you troughton - This lending from forMem to MM is Called Swapin. are not inshall by User

The Process of Swapin and Swap out is called Swapping Done by Mid Ham scheduler. · Swapping is also known as solling when Swapping is done bused on priority of processes -> The process which food Swap out from mm to Sec. Mem it keptinho Swap Space only Eser diag. Swapoch Suspended waiting ! blocked State Swapin 110 completion Swapont , populary Suspended Ready Shate Swapin Beenglos

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