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Operating Systems Tutorial-4

OL FORKE	Morke
1. Child & parent process have separate memory space. 2. Both child & parent gets executed simultaneously.	1. Child + parent process shake Same address space 2. One child process is executed, parent process starts its executed, 3. It does not use copy-
3. It uses copy-on-write as an alternative. 4. Child process does not	4. Child process suspends
execution. 5. There is a wastage of address space.	5. There is no wastage of address space.

Dr. Actions taken by a Kernel to context-switch blw processes are->

i) The OS must save the PC of user stack pointer of the currently executing process, in response to a clock interest and teranspers control to kernel clock interest transfer ii) Saving the rest of the registers as well as other machine state, in the process PCB is done by clock interrupt transfer ii) The scheduler to determine the next process to execute is invoked the OS.

iv) Then, the state of the next process is retrieved from its PCB by 08 & sustones the sugistion.

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D) Blocking one Kernel level threads.	Arruad blocks all scelated
Ou. Process	Threads
in execution. ii) It takes more time to terminate. iii) It takes more time gor creation. iii) It takes more time for creation. iii) It takes more time for context switching. V) It is isolated.	P) The means a segment of process. iii) It stakes less time to sterminate. iii) It dates less time for Occation iv) It takes less time for Context-switching N) They share memory.
Q5. Thread Context Switch	Brocers context Switch
current state of the thread to switches to another thread.	state of running program +
2. It helps couto handle multie threads simultaneously. 3. Brocessor's cache & translational	strikes of the new program for its execution.
their state	gets flushed
4. It is a bit faster of cheaper.	4. It is relatively slaver t

Date..... as In a multi-thouaded process, signals in many operating systems are delivered to a specific thread within the process. The thread to which a signal is delivered is determined by the operating system's signal - handling mechanism. Q7. The new code would be: int main (void) int fal[2]; fd2 [2]; char buff [100]; buff 2 [100]; pipe (ga i); pipe (1d2); pid = fork(); if (bid >0) close (fal [o]); write (fal[1], " Hello my child in", 120; close (fa 1 [1]); Close (d2 [1]); wait (NULL); read (fd2[0], buff2, 100); close (fa1[1]); Close (faz [0]); read (falco), buff 1, 100); pointy ("1.2", buff1); write (d2[1], "Hello my parent-In" 16 dae (d2[1]); dore (d2[1]); Spiral Spiral

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to access the Kernel resources

SCS thread is associated to each LWP by the thread

library and are scheduled by the system scheduler