Keg!-2020CAO89 Assignment 2 Name: - SHISHU 0.5 Quess Admit Activate Ready Sus pended Time-out Suspand occur Blocked Suspend Suspend · Process' State Transition Diagram with Suspend State. Suitable Solution is 3-x Ready State means less swapping also formest that there will be no startation. Ready suspend means that the process (in ready queue) and this is more time consuming. It does quantee that the height priority process are executing.

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Just 2 # included statio. W # include < unistal. h> Ext main () & if (fork() & & (!fork)) & It (took() 11 took) & fork()', 2 point (2"); setum 0; Output 222 222

Explation:
1) Fork will create two process one parent

P Chas process id of new child and

nother are is child ((process id=0))

Sperator and in this case if first condition is false that it will not evaluate second condition and print 2.

Pasent process P check for second condition and create two new process (one pasent P and other is child (2).

In second condition we are using NOT operator where setwen true for child process (2) and it execute inner is statement.

3) Child C2 again Create two new process (one parent C2 and Child C3 and we are using DR operator which evaluate second condition when first condition is false Parent C2 execute if part end create two process (one parent C2 and child C4) where as child C3 checked for second condition and create the new process (one parent C3 and child C5)

one parent (3 and child (6)

Shies?

constant time complexity) in a seperate thread, The overhead of creating the thread exceeds the task performed by then, thus decreasing performance when compared to single threaded alternative.

Example

- numbers Multi threading went speed up the operation Since the time taken by the Operation is constant and other elements of the list may or may not wait for the previous to finish.
- 2) Allocating memory to a set of dater variable Allocating memory is a very fast task and the overhead of creating multiple threads to process of creating multiple threads to process separate blocks of variables excess the Performance gained by multithreading.

Soluri is less than no of processors then some of the processors would remain idle since the scheduled map only kernal thread to processors and not user-level threads to processors.

b) when no of kernal threads abouted exactly equal to the no of processors then it is possible that all of the processor might be executed simulteneously thousever when kernal thread block

inside the kernal the corresponding processor would remain idle. The number of kernal throunds allocated to the program is greater that the number of processors but less than the number of user-level thread: soli- when the Kernel threads are more than processor, a blocked Kernel thread could be swapped out instead

of another Kernal thread that is seady to execute- This will invere the utilization of multiprocessor system.