process is divided into the smaller tasks and each task is called as a thread. A thread is a single sequential flow of control withing program. At calso called as hight Weight Process (UMP) is a havic unit of CPU ultilization; it compresses a thread II program counter, a register set and a strek. This shows with OS resources a traditional process has a single-thread atortiol. If a process has multiple throad of contol it ran do more than one task at a time > Multithreading Multithreading refers to the ability of an operating system to support multiple threads of execution. multithreaded programming: 1. Kesponsiveness: Multithreading an interactive application program to continue running our if part of To performing a langthy operation, incroasing tesponsiuoness of the usor e. Korourco sharing Threads share the memory and the to ushich they belong. The bondit of of noilgap no wolla si that is private show several different throads of activity all within address Spare 3. Economy Allocating memory and resources. Pa.7

		" Utilization of multiprocessor architectuationefits of
	-	multithreading can be greatly increased in multiproces
1		Vy increased in music
		multi her ading can be great may be never to
		multithreading can be greatly increased in maning in and there was there was thread may be running in
		parallel on a different processor.
	-	
	-	> Throad States:
	-	O Manual
		When a new process is spawned, a thread within the
	-	within a process may spawn another thread within the
		same process, providing an IP and arguments for the
		new thread the rem thread is provided with its own
		register content & stack space & placed on the read
1		quere.
	-	duere.
1		Block:-
		When the thread needs to wait for an avent
		it will block (sawing it registers, PC elsp) the process
1	T	may now tuen to the accountion of another ready three
	0 4	
		Unblock:-
		bloom the cupit do which a other of in like hal
-6		When the event for which a thread is blocked occurs, the thread is moved to the ready quous
		the many quous
	1.	Finish:
		Island A A OL ab it
		when a thread completes, it's register content and
	17	starte are dealecated.
	-	-1 M - 1 / 1
	-	The throad library consists of the foll functions related to the
	•	Thread management:
-		· Ihread creation & deblica
-		· Assigning proprities to the threads
-		TORRICA SCLOOLINIA
		· (proad suppreprization
		· Communication both of 4
		· Saring & specimen 1 1 1 1 1
g.8		· Saving & restoring contents of the threads
2		· Blocking & resumment the threads.
		<u>-</u>