THREAD (light weight process)

Thread: - Path of enecutive within a process can have multiple threak
- Flow of execution through purcess code.
having Wown program counter.
1 along the second of the second to the

(2) system register (holds current working raviable)
(3) stack (contains execution history)

- data segment | has its own:

- data segment | - PC

- open files | - Reg. set |

- stack space

NOTE: - improves performance through parallelism.

- belongs to enactly one process.

- can't exist outside a process.

USE: - Web server - N/w server

Reg. Counter Stack	Reg. County Stack
Data Files	Stack Stack Stack
Code	Sata files
	Code
Single Thread	Thread 1 Thread 2 Thread

Advantage: if one thread completes its execution, 0/4
- Responsiveness: can be immediately returned.
- mininge content switching time (Fastest context switch)
- provide concurrency within a process
- efficient/communication (as shared common address space)
- more en economical to create
- allow utilizati of multi-puocess architecture: for
muttiple threads we can schedule those on multiple
processor (makes process execution factor).
Types and asserted in qualificity per mail of the second
- User Level - thread night kernel is not accore of - Kernel Level 7 enistence of threads.
- User Level -> thread night kernel is not accore of
- Kernel Level 7 enistence of threads?
thread mgmt is done by nernel/05
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Eg: 1)MS Word: Edit document while the background grammor & spell checker works to add green and red squiggle lines.
checker works to add green and red squeggle lines.
common some liferant threads of a simple beauces
2) MS Encel: Butsmatric background recalculation after cell-edit.
3) web browser: doonloading muttiple files from diff. tale.
Real-portd Eq. : 2 candidate n locality muttiple thread n collectors
2 candidate n locality muthiple thread
2 candidate n locality muthiple thread n collectors
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ie a thread.
> Threading sync (counting 1 by 1)
opening bost

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Multi-threading Models	assault master m
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- One to one	I Consider -
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Carles and Commercial Start	
₩ Why multi-threading?	
and a large of the state of the	Transcript
- to achieve parallelism by dividing a proc	ess into
- to ochieve parallelism by dividing a proc multiple threads.	
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Eg: In browser, multiple table	
2	
different/multiple	threads.
Process Vs Threads:	
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