











- Access to the memory and resources of its process
 - all threads of a process share this







Threads

- Suspending a process involves suspending all threads of the process since all threads share the same address space
- Termination of a process, terminates all threads within the process

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Chread States States associated with a change in thread state Spawn Spawn Spawn another thread Biock Unblock Deallocate register context and stacks





























Benefits of a Microkernel Organization

Portability

 Changes needed to port the system to a new processor is changed in the microkernel - not in the other services

Reliability

- Modular design
- Small microkernel can be rigorously tested

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Benefits of Microkernel Organization

- Distributed system support
 - Messages are sent without knowing what the target machine is
- Object-oriented operating system
 - Components are objects with clearly defined interfaces that can be interconnected to form software



























