

Figure 1.16 A computer running (a) a single operating system and (b) three virtual machines.

the server executes the action and sends the results to the client. A server

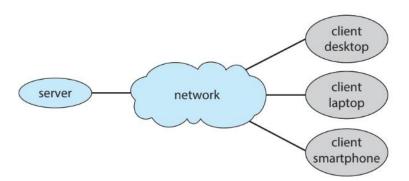


Figure 1.22 General structure of a client-server system.

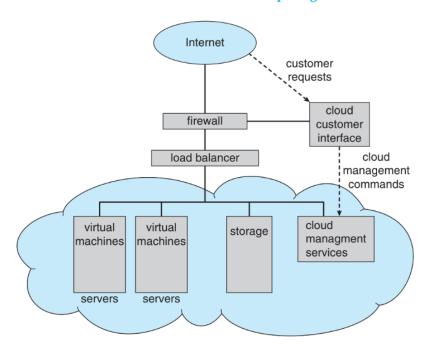


Figure 1.24 Cloud computing.

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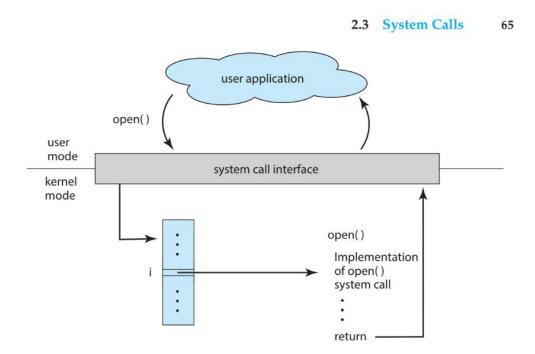


Figure 2.6 The handling of a user application invoking the open() system call.

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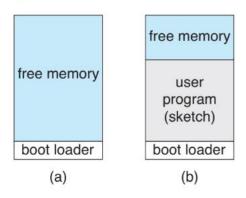


Figure 2.9 Arduino execution. (a) At system startup. (b) Running a sketch.

2.3 System Calls 71

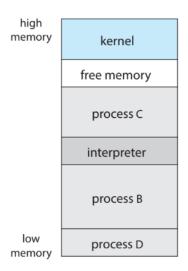


Figure 2.10 FreeBSD running multiple programs.

existence all to terminate returning to the involving process a status each of 0 or

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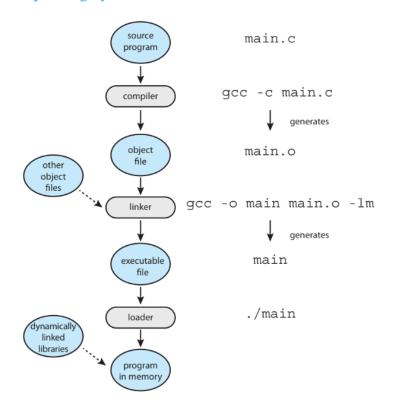


Figure 2.11 The role of the linker and loader.

2.8 Operating-System Structure

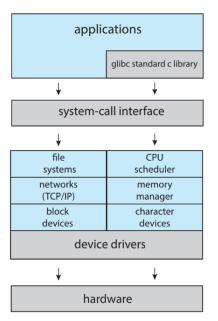


Figure 2.13 Linux system structure.

Monolithic structure

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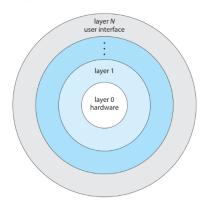


Figure 2.14 A layered operating system.

2.8 Operating-System Structure



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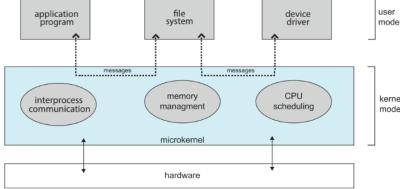


Figure 2.15 Architecture of a typical microkernel.

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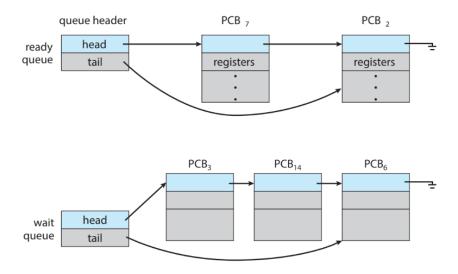


Figure 3.4 The ready queue and wait queues.

3.5 IPC in Shared-Memory Systems

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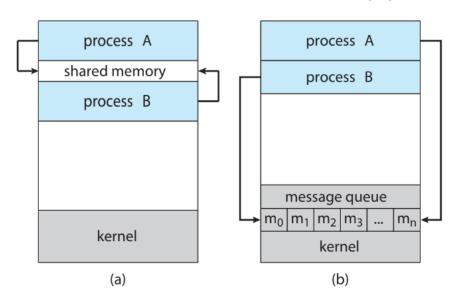


Figure 3.11 Communications models. (a) Shared memory. (b) Message passing.