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Operating Systems: Internals and Design Principles is intended for use in a one- or two-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors.

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The system-level context contains the remaining information that the operating system needs to manage the process. It consists of a static part, which is fixed in size and stays with a process throughout its lifetime, and a dynamic part, which varies in size through the life of the process.

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Execution of a Process Piece of process that contains the logical address is brought into main memory Operating system issues a disk I/O Read request Another process is dispatched to run while the disk I/O takes place An interrupt is issued when disk I/O is complete, which causes the operating system to place the

affected process in the Ready state

Memory - Information Services and Technology

Chapter 2 - Operating System Overview. Operating Systems at the Open Directory ProjectA massive organized directory of OS-related links. The Operating System Resource CenterA useful collection of documents and papers on a wide range of OS topics. Operating System Technical ComparisonIncludes a substantial amount of information on a variety of operating systems.

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Operating Systems: Internals and Design Principles provides a comprehensive and unified introduction to operating systems topics. Stallings emphasizes both design issues and fundamental principles in contemporary systems and gives readers a solid understanding of the key structures and mechanisms of operating systems.

Operating Systems: Internals and Design Principles - Pearson

-3-CHAPTER 1 COMPUTER SYSTEM OVERVIEW 1.1 In hardware: device sends signal (voltage) on IRQ line. The signal causes a bit to be flipped in the interrupt register. At the end of an instruction cycle, the interrupt register is

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