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XINU stands for Xinu Is Not Unix -- although it shares concepts and even names with Unix, the internal design differs completely. Xinu is a small, elegant operating system that supports dynamic process creation, dynamic memory allocation, network communication, local and remote file systems, a shell, and device-independent I/O functions.

*The Xinu Page*

This Xinu book removes the black magic and explains how to build an OS from the ground up. It explains the underlying design policies behind each of the primary components of an operating system kernel and provides the concrete implementation of source code. The Xinu design principles can be found on other commercially available platforms.

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Extensive implementation experience is gained by coding, testing, and benchmarking key components of the XINU operating system on dedicated backend hardware. Our main implementation platform will be x86 backend machines and Intel x86 frontend PCs where code is developed.

*Operating Systems: Course Website*

The text begins with a bare machine and proceeds step-by-step through the design and implementation of Xinu, which is a small, elegant operating system that supports dynamic process creation, dynamic memory allocation, network communication, local and remote file systems, a shell, and device-independent I/O functions.

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*Operating System Design | Taylor & Francis Group*

Called Xinu, the system serves as an example and a pattern for system design. It includes all the components that constitute an ordinary operating system'. memory management, process management, process coordination and synchronization, interprocess communication, real-time clock management, device drivers, intermachine communication, networks ...

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Continuing to follow a logical pattern for system design, Operating System Design: The Xinu Approach, Second Edition removes the mystery from operating system design and consolidates the body of material into a systematic discipline. It presents a hierarchical design paradigm that organizes major operating system components in an orderly, understandable manner.

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(BSD Unix, easy reading) The Design and

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Implementation of the 4.4 BSD Operating System, by McKusick, K. Bostic, M.J. Karels, J.S. Quarterman (Addison Wesley). (build-your-own; based on old material, but excellent)  
Operating System Design - The XINU Approach, Linksys Version, by D.E. Comer, 2011 (CRC Press). Systems Programming

*CPSC 410 / CPSC 611 -- Operating Systems  
(Fall 2014)*

Xinu Is Not Unix, is an operating system for embedded systems, originally developed by Douglas Comer for educational use at Purdue University in the 1980s. The name is both recursive, and is Unix spelled backwards. It has been ported to many hardware platforms, including the DEC PDP-11 and VAX systems, Sun-2 and Sun-3 workstations, Intel x86, PowerPC G3 and MIPS. Xinu was also used for some models of Lexmark printers. Despite its name suggesting some similarity to Unix, Xinu is a different type

*Xinu - Wikipedia*

The text begins with a bare machine and proceeds step-by-step through the design and implementation of Xinu, which is a small, elegant operating system that supports dynamic process creation, dynamic memory allocation, network communication, local and remote file systems, a shell, and device-independent I/O functions.

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