

# ia-64 linux kernel

design and implementation

david mosberger • stéphane eranian



Authoritative and complete description of the Linux kernel  
for IA-64/ITP (Itanium Processor Family)

Provides an in-depth discussion of the ideas and concepts behind the Linux hardware  
abstraction interface, the IA-64 design space, and their actual realizations

From the lead architects and developers of the IA-64 Linux kernel

Foreword by Bruce Perens



# Ia 64 Linux Kernel Design And Implementation

**M Mark**



## **Ia 64 Linux Kernel Design And Implementation:**

IA-64 Linux Kernel David Mosberger, Stéphane Eranian, 2002 The IA 64 Linux kernel makes extraordinary power available to every Linux developer In IA 64 Linux Kernel Design and Implementation the kernel project s leaders systematically present every major subsystem introducing interfaces used by Linux to abstract platform differences showing how these interfaces are used in IA 64 and illuminating key issues associated with Linux kernel operation on any platform Covers processes tasks threads virtual memory I O symmetric multiprocessing bootstrapping and more IA-64 LINUX KERNEL (□□ □□□) DAVID MOSBERGER□, 2003-07-30 *The Linux Programming Interface* Michael Kerrisk, 2010-10-01 The Linux Programming Interface TLPI is the definitive guide to the Linux and UNIX programming interface the interface employed by nearly every application that runs on a Linux or UNIX system In this authoritative work Linux programming expert Michael Kerrisk provides detailed descriptions of the system calls and library functions that you need in order to master the craft of system programming and accompanies his explanations with clear complete example programs You ll find descriptions of over 500 system calls and library functions and more than 200 example programs 88 tables and 115 diagrams You ll learn how to Read and write files efficiently Use signals clocks and timers Create processes and execute programs Write secure programs Write multithreaded programs using POSIX threads Build and use shared libraries Perform interprocess communication using pipes message queues shared memory and semaphores Write network applications with the sockets API While The Linux Programming Interface covers a wealth of Linux specific features including epoll inotify and the proc file system its emphasis on UNIX standards POSIX 1 2001 SUSv3 and POSIX 1 2008 SUSv4 makes it equally valuable to programmers working on other UNIX platforms The Linux Programming Interface is the most comprehensive single volume work on the Linux and UNIX programming interface and a book that s destined to become a new classic *Linux Kernel Development* Robert Love, 2005 An authoritative practical guide that helps programmers better understand the Linux kernel and to write and develop kernel code Itanium Architecture for Programmers James S. Evans, Gregory L. Trimper, 2003 Step by step guide to assembly language for the 64 bit Itanium processors with extensive examples Details of Explicitly Parallel Instruction Computing EPIC Instruction set addressing register stack engine predication I O procedure calls floating point operations and more Learn how to comprehend and optimize open source Intel and HP UX compiler output Understand the full power of 64 bit Itanium EPIC processors Itaniumreg Architecture for Programmers is a comprehensive introduction to the breakthrough capabilities of the new 64 bit Itanium architecture Using standard command line tools and extensive examples the authors illuminate the Itanium design within the broader context of contemporary computer architecture via a step by step investigation of Itanium assembly language Coverage includes The potential of Explicitly Parallel Instruction Computing EPIC Itanium instruction formats and addressing modes Innovations such as the register stack engine RSE and extensive predication Procedure calls and procedure calling mechanisms Floating point operations I O techniques from

simple debugging to the use of files Optimization of output from open source Intel and HP UX compilers An essential resource for both computing professionals and students of architecture or assembly language Itanium Architecture for Programmers includes extensive printed and Web based references plus many numeric essay and programming exercises for each chapter

UNIX Systems Programming Kay A. Robbins, Steven Robbins, 2003 bull Learn UNIX essentials with a concentration on communication concurrency and multithreading techniques bull Full of ideas on how to design and implement good software along with unique projects throughout bull Excellent companion to Stevens Advanced UNIX System Programming

*Virtual Machine Design and Implementation in C/C++* Bill Blunden, 2002 This is an in depth look at the construction and underlying theory of a fullyfunctional virtual machine and an entire suite of related development tools

Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack Dongarra, Norbert Meyer, Jerzy Wasniewski, 2006-06-09 This book constitutes the thoroughly refereed post proceedings of the 6th International Conference on Parallel Processing and Applied Mathematics PPAM 2005 The book presents 135 papers organized in topical sections on parallel and distributed architectures parallel and distributed non numerical algorithms performance analysis prediction and optimization grid programming tools and environments for clusters and grids applications of parallel distributed grid computing evolutionary computing with applications parallel data mining parallel numerics and mathematical and computing methods

**Building Clustered Linux Systems** Robert W. Lucke, 2005 Until now building and managing Linux clusters has required more intimate and specialized knowledge than most IT organizations possess This book dramatically lowers the learning curve bringing together all the hands on knowledge and step by step techniques needed to get the job done

**NEC Research & Development** ,2003 **Journal of Computer Resource Management** ,2006 2004

International Conference on Supercomputing ,2004 Sys Admin ,2002 **Operating Systems** William Stallings, 2009 For a one semester undergraduate course in operating systems for computer science computer engineering and electrical engineering majors Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association TAA

**Operating Systems Internals and Design Principles** is a comprehensive and unified introduction to operating systems By using several innovative tools Stallings makes it possible to understand critical core concepts that can be fundamentally challenging The new edition includes the implementation of web based animations to aid visual learners At key points in the book students are directed to view an animation and then are provided with assignments to alter the animation input and analyze the results The concepts are then enhanced and supported by end of chapter case studies of UNIX Linux and Windows Vista These provide students with a solid understanding of the key mechanisms of modern operating systems and the types of design tradeoffs and decisions involved in OS design Because they are embedded into the text as end of chapter material students are able to apply them right at the point of discussion This approach is equally useful as a basic reference and as an up to date survey of the state of the art

**The Linux Networking Architecture** Klaus Wehrle, 2004 This unique

Linux networking tutorial reference provides students with a practical overview and understanding of the implementation of networking protocols in the Linux kernel. By gaining a familiarity with the Linux kernel architecture, students can modify and enhance the functionality of protocol instances. Provided by publisher The Publishers Weekly, 2001. *Java Transaction Processing* Mark Cameron Little, Jonathan Maron, Greg Pavlik, 2004. Addresses transactions related issues faced by Java developers. Conference Proceedings, 2003. *The British National Bibliography* Arthur James Wells, 2003. **Java Programming on Linux** Nathan Meyers, 2000. This detailed how to book on using Java on a Linux operating system covers installing and enabling a Java runtime environment under Linux, Java development in Linux, running Java applications and applets using Java with Linux based Web servers using Sun Components JCE and JAI in Linux and more. The book points the way to a Web site with all the code from the book.

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