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IA-64 Linux Kernel: Design and Implementation. From the Book: PREFACE This book grew out of the simple desire to describe exactly how Linux works on an IA-64 machine. By realizing that desire, we hope not only to shine a light on the inner workings of Linux, but also to share some of the excitement and the creative processes that are involved in solving the many technical challenges that arise when designing an operating system for a platform as radical and innovative as IA-64.

[PDF] IA-64 Linux Kernel: Design and Implementation ...

Authoritative and complete description of the Linux kernel for IA-64/IPF (Itanium Processor Family) Provides an in-depth discussion of the ideas and concepts behind the Linux hardware abstraction interfaces, the IA-64 design space, and their actual realization From the lead architects and developers of the IA-64 Linux kernel The IA-64 architecture and Itanium processors are

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designed to

IA-64 Linux Kernel: Design and Implementation | InformIT

The Linux kernel on IA64, includes a subsystem called perfmon to provide access to the IA-64 PMU. The perfmon interface consists of a single system call, perfmonctl() which supports a set of...

IA-64 Linux Kernel: Design and Implementation

IA-64 is a high-performance microprocessor architecture co-designed by HP and Intel. The titanium chip is the first implementation of this new architecture. Intel already has outlined a roadmap of several chips to follow, such as the more powerful McKinley and Deerfield implementations.

Mosberger & Eranian, IA-64 Linux Kernel: Design and ...

The IA-64 Linux kernel makes extraordinary power available to

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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

Ia-64 Linux Kernel: Design and Implementation, 2002, 522 ...

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.

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The book starts with an overview of Linux and the IA-64 architecture and then discusses each major subsystem of the kernel in more detail. Among others, there are separate chapters on how multi-tasking maps onto the underlying hardware, on the virtual memory subsystem, device support (programmed I/O, DMA & interrupts), symmetric multi-processing (SMP), and on the bootstrap proc...

IA-64 Linux Kernel ()

At boot-time, the kernel uses the EFI GetMemoryMap() interface. ACPI can also describe memory devices and the attributes they support, but Linux/ia64 currently doesn't use this information. The kernel uses the efi_memmap table returned from GetMemoryMap() to learn the attributes supported by each region of physical address space.

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Memory Attribute Aliasing on IA-64 — The Linux Kernel ...

This is a well written ia64/Linux kernel book which explains the internal Linux kernel working such as process, task, virtual memory, kernel entry and exit, device IO. Each chapter consist of kernel explanation about the topic, API explanation and ia64 implementation.

Amazon.com: Customer reviews: IA-64 Linux Kernel: Design ...

Design Goals & Approach IPure 64-bit kernel for IA-64 (no legacy) IAPIs compatible with Linux/x86 wherever possible (e.g., error-, signal-, ioctl-codes) IMinimize changes to platform-independent code (started with 2.1.126, now at 2.3.35)

IA-64 Linux Kernel Internals - Stanford University

From the lead architects and developers of the IA-64 Linux kernel The IA-64 architecture and Itanium processors are

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designed to offer unprecedented levels of performance, expandability, and reliability—and with the delivery of the IA-64 Linux kernel, that power is now accessible to every Linux developer.

Buy IA-64 Linux Kernel: Design and Implementation (Hewlett ...

IA-64 Linux Kernel: Design and Implementation . 2001. Abstract. From the Book: PREFACE This book grew out of the simple desire to describe exactly how Linux works on an IA-64 machine. By realizing that desire, we hope not only to shine a light on the inner workings of Linux, but also to share some of the excitement and the creative processes ...

IA-64 Linux Kernel | Guide books

1. Introduction¶. This document describes the efirtc.c driver has provided for the IA-64 platform. The purpose of this driver is to

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supply an API for kernel and user applications to get access to the Time Service offered by EFI version 0.92.

EFI Real Time Clock driver — The Linux Kernel documentation

The IA-64 architecture supports a large number of different page sizes including at least 4 Kbytes, 8 Kbytes, 16 Kbytes, 256 Kbytes, 1 Mbyte, 4 Mbytes, 16 Mbytes, 64 Mbytes, and 256 Mbytes. Linux uses a three-level page table, so the page size it uses directly affects the amount of virtual memory that a page table can map.

Discussion and Summary | Virtual Memory in the IA-64 Linux ...

Linux, kernel, IA64, Itanium The IA-64 architecture co-developed by HP and Intel is going to reach market in the second half of 2000 with Itanium as its first implementation. All the major

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industry players have endorsed this architecture and nowadays most of the specifications are public.

The Linux/ia64 Project: Kernel Design and Status Update

In early 1998, he founded the project to bring Linux to the IA-64 platform, later developing the first IA-64 version of the GNU C compiler and GNU toolchain. He has been serving as lead architect, developer, and gatekeeper of the IA-64 Linux kernel source code. STEPHANE ERANIAN is a Senior Research Scientist at HP Labs.

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