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IA-64 Linux Kernel: Design and Implementation | Semantic Scholar. 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 ...

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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 designed to

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Among the Linux professionals, the book should be of most direct value to general kernel programmers, authors of device drivers, and application programmers interested in tuning performance for IA-64. Beyond that, the descriptions of the Linux hardware abstraction interfaces are valid independently of the target platform.

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4.7.2 IA-64 implementation . On
Linux/ia64, switching the address space
involves three simple steps: Set current

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page-table pointer to the global directory of the new address space. Ensure that the new address space has a valid ASN (region ID) by calling `get_mmu-context()`.

Switching Address Spaces | Virtual Memory in the IA-64 ...

Kernel Identify Mappings ¶. Linux/ia64 identity mappings are done with large pages, currently either 16MB or 64MB, referred to as “granules.” Cacheable mappings are speculative [2], so the processor can read any location in the page at any time, independent of the programmer’s intentions.

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

From the lead architects and developers of the IA-64 Linux kernel The IA-64 architecture and Itanium processors are designed to offer unprecedented levels of

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