The Unabridged Pentium 4: IA32 Processor Genealogy

Mindshare Inc., Tom Shanley

The Unabridged Pentium 4: IA32 Processor Genealogy

Mindshare Inc., Tom Shanley

The Unabridged Pentium 4: IA32 Processor Genealogy Mindshare Inc., Tom Shanley

"In this monumental new book, Tom Shanley pulls together 15 years of history of Intel's mainline microprocessors, the most popular and important computer architecture in history. Shanley has a keen eye for the salient facts, and an outstanding sense for how to organize and display the material for easy accessibility by the reader. If you want to know what does this bit control, what does that feature do, and how did those instructions evolve through several generations of x86, this is the reference book for you. This is the book Intel should have written, but now they don't have to."

> —**Bob Colwell**, Intel Fellow

The Unabridged Pentium 4 offers unparalleled coverage of Intel's IA32 family of processors, from the 386 through the Pentium 4 and Pentium M processors. Unlike other texts, which address solely a hardware or software audience, this book serves as a comprehensive technical reference for both audiences. Inside, Tom Shanley covers not only the hardware design and software enhancements of Intel's latest processors, he also explains the relationship between these hardware and software characteristics. As a result, readers will come away with a complete understanding of the processor's internal architecture, the Front Side Bus (FSB), the processor's relationship to the system, and the processor's software architecture.

Essential topics covered include:

- Goals of single-task and multi-task operating systems
- The 386 processor—the baseline ancestor of the IA32 processor family
- The 486 processor, including a cache primer
- The Pentium processor
- The P6 roadmap, P6 processor core, and P6 FSB
- The Pentium Pro processor, including the Microcode Update feature
- The Pentium II and the Pentium II Xeon and Celeron processors
- The Pentium III and the Pentium III Xeon and Celeron processors
- The Pentium 4 processor family
- The Pentium M processor
- Processor identification, System Management Mode, and the IO and Local APICs

An "at-a-glance" table of contents allows readers to quickly find topics ranging from 386 Demand Mode Paging to Pentium 4 CPU Arbitration.

The accompanying CD-ROM contains 16 extra chapters.

Whether you design software or hardware or are responsible for system maintenance or customer support, *The Unabridged Pentium 4* will prove an invaluable reference to the world's most widely used microprocessor chips.

MindShare's PC System Architecture series is a crisply written and comprehensive set of guides to the most important PC hardware standards. Books in the series are intended for use by hardware and software designers, programmers, and support personnel.

One of the leading technical training companies in the hardware industry, MindShare, Inc., provides innovative courses for dozens of companies, including HP, AMD, IBM, and Compaq. Through these classes and by writing the highly regarded PC System Architecture Series for Addison-Wesley, MindShare trainers emphasize the relationships of hardware subsystems to each other as well as the relationship between software and hardware.

Download and Read Free Online The Unabridged Pentium 4: IA32 Processor Genealogy Mindshare Inc., Tom Shanley

---

From reader reviews:

Johanna Hernandez:

In this 21st hundred years, people become competitive in each and every way. By being competitive today, people have do something to make these individuals survives, being in the middle of the crowded place and notice by surrounding. One thing that sometimes many people have underestimated that for a while is reading. Yes, by reading a reserve your ability to survive boost then having chance to remain than other is high. In your case who want to start reading any book, we give you this The Unabridged Pentium 4: IA32 Processor Genealogy book as beginner and daily reading book. Why, because this book is more than just a book.

Luis Acosta:

Do you one among people who can't read pleasurable if the sentence chained from the straightway, hold on guys this particular aren't like that. This The Unabridged Pentium 4: IA32 Processor Genealogy book is readable by you who hate the straight word style. You will find the information here are arrange for enjoyable looking at experience without leaving possibly decrease the knowledge that want to provide to you. The writer associated with The Unabridged Pentium 4: IA32 Processor Genealogy content conveys thinking easily to understand by most people. The printed and e-book are not different in the content material but it just different as it. So , do you nonetheless thinking The Unabridged Pentium 4: IA32 Processor Genealogy is not loveable to be your top record reading book?

Elizabeth Hager:

The Unabridged Pentium 4: IA32 Processor Genealogy can be one of your basic books that are good idea. Many of us recommend that straight away because this reserve has good vocabulary that can increase your knowledge in language, easy to understand, bit entertaining but nonetheless delivering the information. The article author giving his/her effort to get every word into joy arrangement in writing The Unabridged Pentium 4: IA32 Processor Genealogy but doesn't forget the main position, giving the reader the hottest and based confirm resource details that maybe you can be considered one of it. This great information can certainly drawn you into brand new stage of crucial contemplating.

Christina Mundell:

The book untitled The Unabridged Pentium 4: IA32 Processor Genealogy contain a lot of information on that. The writer explains your girlfriend idea with easy method. The language is very straightforward all the people, so do not worry, you can easy to read this. The book was published by famous author. The author gives you in the new period of literary works. It is possible to read this book because you can continue reading your smart phone, or product, so you can read the book inside anywhere and anytime. In a situation you wish to purchase the e-book, you can start their official web-site and also order it. Have a nice read.

Download and Read Online The Unabridged Pentium 4: IA32 Processor Genealogy Mindshare Inc., Tom Shanley #XAZP6UBDJQL

Read The Unabridged Pentium 4: IA32 Processor Genealogy by Mindshare Inc., Tom Shanley for online ebook

The Unabridged Pentium 4: IA32 Processor Genealogy by Mindshare Inc., Tom Shanley Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Unabridged Pentium 4: IA32 Processor Genealogy by Mindshare Inc., Tom Shanley books to read online.

Online The Unabridged Pentium 4: IA32 Processor Genealogy by Mindshare Inc., Tom Shanley ebook PDF download

The Unabridged Pentium 4: IA32 Processor Genealogy by Mindshare Inc., Tom Shanley Doc

The Unabridged Pentium 4: IA32 Processor Genealogy by Mindshare Inc., Tom Shanley Mobipocket

The Unabridged Pentium 4: IA32 Processor Genealogy by Mindshare Inc., Tom Shanley EPub