Your processor is the brain of your computer. It is also referred to as the microprocessor or CPU. It interprets all the instructions that it receives from various devices and then executes those instructions, such as telling your printer to print. The faster the processor, generally the faster the computer will usually be able to perform those instructions and tasks.

Intel Processors

**Intel® Xeon™**
The Intel Xeon Processor with 533 MHz front side bus for servers and workstations features innovative technologies such as the Intel NetBurst™ Microarchitecture and Hyper-Threading Technology. It offers outstanding platform performance, dependability, value and versatility to provide headroom for current and future server and workstation platforms. Make time now to upgrade from older systems and increase your business's competitive advantage.

**Intel Pentium® 4 Processor with HT Technology Extreme Edition**
Intel Pentium® 4 Processor with HT Technology Extreme Edition benefits from 2MB of on-die level 3 chip cache to deliver incredibly fast performance on a Dell Precision workstation. In select benchmarks, when compared to a 360 with a standard 3.20 GHz P4 CPU, the 360 with an Extreme Edition 3.20GHz processor showed increases in performance from 5-21% in internal Dell tests.

For benchmarks performance details

**Intel® Pentium® 4 Processor with Hyper-Threading Technology**
Intel Pentium 4 processors with Hyper-Threading Technology are fast and efficient. Hyper-Threading technology allows these blazing fast processors to function more efficiently when running multiple tasks at the same time. This benefit is also highlighted when several CPU-intense applications are running simultaneously.

Inside each Intel processor is an instruction queue of actions waiting to be completed. While one activity is being performed, Hyper-Threading uses idle processor sections to begin the next activity. This efficient use of processing power can enable users to work with multiple applications more effectively, so more tasks can be done in less time.

**Intel Pentium® 4 Processor**
The Intel Pentium 4 processor for the desktop provides solid performance on today's high-end applications. The Pentium 4
processor also offers excellent performance for emerging web-based activities and multitasking-oriented users. This desktop processor also offers a great value when used in notebooks. It can deliver significant power and performance at a great price. This is good for customers looking for desktop power in a notebook and who are not as concerned with size and weight. Ideal for people who will be running mainstream applications like internet surfing, digital picture editing, multimedia presentations, word processing, spreadsheets, and basic gaming.

Intel® Pentium® M Processor
Intel's latest processor is the first-ever to be designed from the ground up for mobile computing, allowing systems to be thin, light, and have long battery life. The New Pentium M processor incorporates innovative power-management features that enable extended battery time while still delivering the power to run robust applications delivering the excellent balance of mobility and performance. Combine this processor with the Intel 855 Chipset Family and the Intel PRO Wireless technology to get the Intel Pentium M processor with Centrino technology (see below). This processor is great for people on the go who are running applications like word processing, spreadsheets, databases, etc., as well as running productivity applications, doing presentations, and working wirelessly on a regular basis.

The Pentium M is designed to yield performance beyond advertised processor speeds. On many industry standard benchmarks, the Pentium M at 1.6 GHz performed comparably to the Mobile Pentium 4-M. See chart below for one example:

<table>
<thead>
<tr>
<th>BAPCO'S MOBILEMARK</th>
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<tr>
<td>PENTIUM M 1.6 GHz</td>
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<tr>
<td>PENTIUM 4-M 1.4 GHz</td>
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Intel® Celeron® M Processor
Based on an architecture designed specifically for mobile computing, the Intel® Celeron® M Processor processor delivers a balanced level of mobile performance technology and exceptional value for notebook users.

Intel® Centrino™ Mobile Technology
Intel Centrino mobile technology is a great new set of technologies including the Pentium M processor, Intel 855 Chipset Family, and Intel PRO Wireless Mini-PCI card. Centrino mobile technology is not a processor alone, but rather is a brand umbrella for these 3 parts. The Intel PRO Wireless mini-PCI card allows you to connect to 802.11 b wireless networks and the Pentium M processor enables thin, light systems with long battery life. Put this all together and you get a system that is easy to carry, easy to connect, and easy to use for a long time.

Mobile Intel Pentium® 4 Processor-M
Based on the same technology as the popular desktop Pentium 4 processor, the Mobile Pentium 4-M processor features similar architecture but optimized for battery life and other mobile...
computing needs so that you can run power intensive components with minimal impact to battery life. Mobile Pentium 4-M processors offer high performance to run robust applications delivering excellent multimedia performance with great mobility. It's great for creating digital video, editing digital photos, gaming, delivering multimedia presentations, and desktop publishing.

Intel Pentium® III Processor-M
The Mobile Intel Pentium III Processor-M offers dependability and good mobility for ultra thin and light systems. Mobile Intel Pentium III-M products are available in low voltage and ultra low voltage models, for mini- and sub-notebooks, as well as tablet PC platforms.

Intel Celeron®
The Intel Celeron processor is designed to bring a balanced level of proven technology and value to basic PC desktops. With the Intel Celeron processor you can expect an affordable and reliable PC for your home or home office to meet your basic computing needs, such as e-mailing friends and relatives, tracking home finances, and running interactive or educational software for your kids.

1 Power management features limit processor speed to maintain system cooling or power requirements.

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