Next Generation
Intel® Centrino®
Processor Technology

Mooly Eden
Corporate Vice President and General Manager
Intel Corporation
The Mobile Revolution is Here
Worldwide Notebook PC Mix as % Intel CPU

Opportunity For Growth Continues

Source: Intel Internal and Gartner
Worldwide Notebook TAM

Double Digit Growth Continues

Source: Gartner, PC Forecast: Worldwide and North America shipments, March 2005 Update
Worldwide Notebook TAM

Double Digit Growth Continues

Million Units

2006  80
2007  97
2008  113
2009  130
2010  149
2011

Source: Gartner, PC Forecast: Worldwide and North America shipments, March 2006 Update
Double Digit Growth Continues

35% Growth in ‘05.  ~28% Growth in ‘06.  ~18% CAGR till ‘11.

Source: Gartner, PC Forecast: Worldwide and North America shipments, March 2007 Update
Sustained Process Leadership

2003  2004  2006  2007

BANIAS  DOTHAN  YONAH  MEROM

130nm  90nm  65nm

Intel® Core™ Microarchitecture
Intel’s Mobility Vision

Computing and Connectivity Anytime Anywhere

Seamless Wireless Connectivity**
Securely
Wherever you are

A Battery That Lasts...
As long as you do
Without weighing you down

Great Performance
To handle every application
Foreground and background
While streaming data smoothly

Innovative new form factors
That are easy to use
Small and light enough
To carry them everywhere

Ushering In A New Era of Mobile Computing

**Wireless internet access may require additional hardware, software and/or services that are sold separately from a Mobile Intel® Processor-based notebook computer.
Better Performance and Better Graphics Performance

Unique Energy-Efficient Technologies That Can Help Extend Battery Life

Many Form Factors to Meet User Needs

Up to 5X Greater Wireless Performance

2X Range

Even When Systems Are Sleeping or OS is Inoperable
Intel® Centrino® Duo Processor Technology
Mobility Maximized

Intel’s Leading Mobile Processor Gets Even Better
Compute Intensive and Floating Point Benchmark
Intel vs. Intel running Windows* Vista* (Platform Level)

Enhanced Throughput for Parallel Execution of Multiple Intense Applications

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Advanced 3D Game Performance Benchmark
Intel vs. Intel running Windows* Vista*

Enhanced 3D Performance with Mobile Intel® GMA X3100 Gen 4 Graphics!

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MobileMark* 2005 - Office Productivity

Performance

- Intel® Centrino® Duo processor technology, Intel® Core™2 Duo processor T7700 (4MB L2, 2.40 GHz, 800MHz FSB), Mobile Intel® GM965 Express Chipset
- Intel® Centrino® Pro processor technology, Intel® Core™2 Duo processor T7700 (4MB L2, 1.86 GHz, 667MHz FSB), Mobile Intel® GM965 Express Chipset
- Intel® Centrino® processor technology, Intel® Pentium M processor 750 (2MB L2, 1.86 GHz, 533MHz FSB), Mobile Intel® 915GM Express Chipset

Battery Life (minutes)

- Windows* XP*
  - Intel® Centrino® Duo processor technology, Intel® Core™2 Duo processor T2400 (2MB L2, 1.83 GHz, 667MHz FSB), Mobile Intel® 945GM Express Chipset
  - 56 Watt Hour
  - 243
  - 264
  - 308

- 52 Watt Hour
  - 52
  - 56
  - 210

- 56 Watt Hour
  - 56
  - 52
  - 295

- 304

MobileMark* 2005 is a benchmark used to evaluate notebook PC user experience by measuring both performance and battery life at the same time on the same workload.

Performance tests and ratings are measured using specific systems and/or components and reflect approximate performance of Intel products as measured by those tests. Any difference in system hardware, software, or configuration may affect actual performance. Buyers should consult other sources of information to evaluate performance of systems or components they are considering purchasing. For more information on performance tests and performance of Intel products, visit //www.intel.com/performance/resources/limits.htm.

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Converting Music Files
Intel vs. Intel Running Windows* Vista*

Convert WMA files to MP3 format for your iPod*

Apple* iTunes* 7.1.1

Intel® Centrino® Duo, Intel® Pentium M 750, Mobile Intel® 915GM Express Chipset

Intel® Centrino® Duo, Intel® Core Duo T2400, Mobile Intel® 945GM Express Chipset

Intel® Centrino® Duo, Intel® Core™2 Duo T7700, Mobile Intel® GM965 Express Chipset

Intel® Core™2 Duo gives you exceptional performance with real applications

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Creating Slideshow of Vacation Pictures
Intel vs. Intel running Windows* Vista*

Adobe Photoshop Elements 5.02*

PERFORMANCE – Runtime in Minutes

Intel® Centrino® Duo, Intel® Pentium M 750, Mobile Intel® 915GM Express Chipset
Intel® Centrino® Duo, Intel® Core Duo T2400, Mobile Intel® 945GM Express Chipset
Intel® Centrino® Duo, Intel® Core™2 Duo T7700, Mobile Intel® GM965 Express Chipset

Intel® Core™2 Duo gives you exceptional performance with real applications

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Intel® Core™ 2 Duo Processor:
Enhanced Dynamic Acceleration Technology

2 Cores Active
P = P0 + P1 = TDP Spec

Guaranteed (Marked) Frequency

Frequency
Intel® Core™ 2 Duo Processor:
Enhanced Dynamic Acceleration Technology

2 Cores Active
P = P0 + P1 = TDP Spec

Guaranteed (Marked) Frequency

Core 1
TDP Top Frequency

Core 2

Frequency
Intel® Core™ 2 Duo Processor:
Enhanced Dynamic Acceleration Technology

- 2 Cores Active
- \[ P = P_0 + P_1 = TDP \text{ Spec} \]
Intel® Core™ 2 Duo Processor: 
Enhanced Dynamic Acceleration Technology

2 Cores Active
\[ P = P_0 + P_1 \leq TDP \text{ Spec} \]

Guaranteed (Marked) Frequency

Core 1
- TDP Top Frequency

Core 2
- Leakage
  - C3 Reached
Intel® Core™ 2 Duo Processor:
Enhanced Dynamic Acceleration Technology

Single Core Active: Turbo Frequency
\[ P = P_0 + P_1 \leq TDP \text{ Spec} \]
Mobile Intel® 965 Express Chipset

- GMA X3100
- Intel® Clear Video Technology
- Intel Graphics with Vista Premium
- Discover Heal Protect
- Manageability Engine
- Improved I/O
- Windows Vista
- Intel® Express Chipset
- Serial ATA / USB
- Intel® Express Chipset

Discovering, Healing, Protecting...
Intel® Wireless WiFi Link 4965AGN

Intel® Next-Gen Wireless-N is Faster, Broader and Better

Up to 5X Faster, 2X Range

Supports both 2.4GHz and 5GHz
Stream High-Definition Video and Audio
Intel® Turbo Memory

NAND Technology

Up to 2X Faster Application Load
Up to 20% Faster Boot Time

Power Savings from reduced HDD spins
Intel® Centrino® Pro Processor Technology
Optimized for Business

Built-in Manageability & Proactive Security:

- Agent Presence
- System Defense
- Remote Remediation
- HW & SW Tracking
Consistent and Cost Effective IT Experience

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Who Are The Buyers?

First Time Buyers

Second Time Buyers
Intel® Centrino® Duo Processor Technology Will Improve the Experience

Mobile TV

Entertainment

Hi-Def Entertainment

Online Video

Mobile Gaming

NEW TRENDS

Entertainment on the Go

Intel® Centrino® Duo Processor Technology Will Improve the Experience
Media Enthusiasts and Gaming on Intel® Centrino® Duo Processor Technology Will Lead Enhanced 3D Performance on Gaming
Next Generation Intel® Centrino® Processor Technology Systems

OVER

230

SYSTEMS
Summary: Extending Platform Leadership

- Next generation Intel® Centrino® processor technology notebooks
  - Breakaway performance meets energy conservation
- Mobile growth remains strong
- For consumer and business
  - Intel® Core™2 Duo processor gets even better
  - Great video playback
  - Up to 5X faster wireless
  - Wired and wireless manageability and security
No alcohol at the event given the early hour and the US press audience who typically don’t drink at that hour."