Technology Leadership

2003 Intel Fall Analyst Meeting

PAUL S. OTELLINI

President & Chief Operating Officer

2003: Defining Moments

1 DHWG spec released

100,000 Wi-Fi Hotspots worldwide*

1,000,000 Itanium® crosses TPM-C threshold

10,000,000 Wi-Fi access points deployed

200,000,000 Emerging market PC installed base*

1,000,000,000 Connected PCs & data phones*

10,000,000,000 CPU transistors shipped/minute in '03*

20,000,000,000 FLOP/s with LLNL Itanium cluster

Intel has moved to the "PLATFORM"



More than Processors...



ARCHITECTURAL Enhancements

(increasingly software visible) *MMX*, *SSE*, *Hyper-Threading*...

CHIPSET Growth through Integration PCI, USB, PCI-E, LAN, Integrated RAID...



Value Added SOFTWARE

Drivers, ProSet, Tiano...

BRANDING our "Ingredients" CMT...

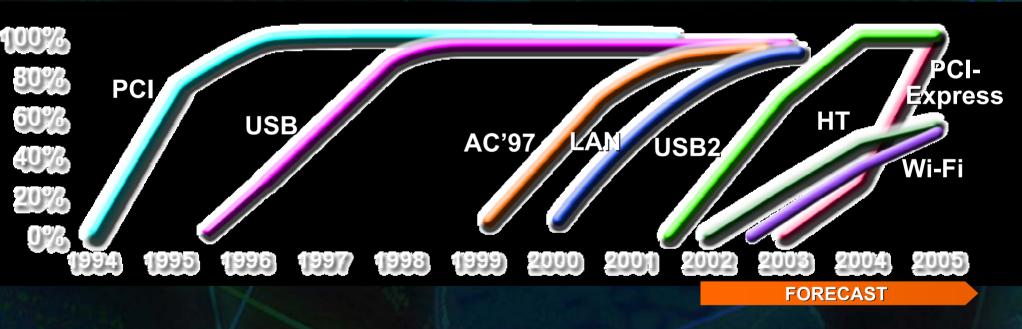




"INNOVATE and INTEGRATE"

The Worlds Best "Platform Diffusion Engine"

% of Intel Client Silicon with New Capabilities





Source: Intel

4 "Platform" Technologies

The "S" CMT



PERFORMANCE Hyper-Threading Technology



MOBILITY Intel[®] Centrino[™] **Mobile Technology**



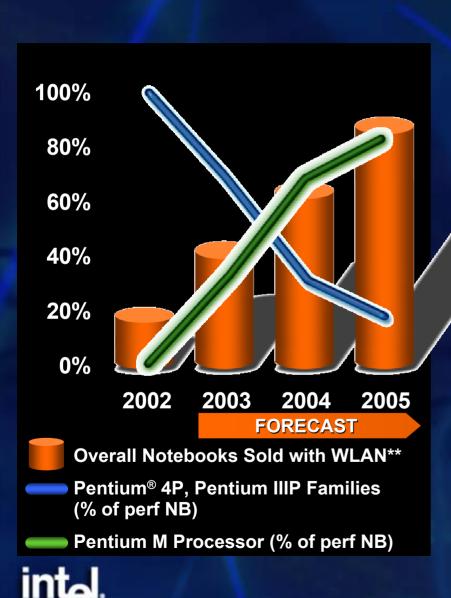
SECURITY LaGrande Technology



RELIABILITY Vanderpool Technology



The Mobile Platform(s): NOTEBOOKS



2003

Centrino[™] Mobile Technology: Unwire!

- Family: >\$2Bn in 9 mo; 130 designs
- #1 802,11b Si vendor in Q4'03*
- Shipping 802.11b, a/b now; b/g in Q4

Mobile: The Growth Engine

- Worldwide: +35% YoY (>3x DT)**
- Emerging mkts: PRC +75% YoY**
- Consumer: >40% US retail units***

2004

Toggle: Dothan; Sonoma platform

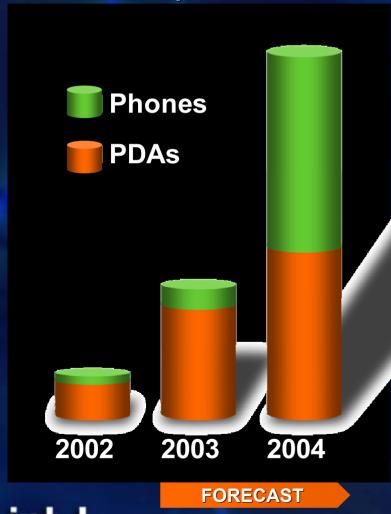
802.11a/b/g, Azalia audio, S-ATA, DDR2

Accelerate biz; grow consumer & EMs

Source: * Intel **IDC *** NPD

The Mobile Platform(s): HANDHELD/HANDSET

Intel XScale® Unit Shipments*



2003

Intel won PDAs

■ $0\% \rightarrow 45\%$ MSS in 3 yrs; 60% by '04*

Phones

- Ramp designs: Samsung, Motorola...
- Sample Bulverde
- Launch PXA800F: integrated GPRS

#1 Apps processor shipments**

2004

Ramp XScale phones: >10Mu

MOUs with 5 of 10 largest carriers

Extend to EDGE & WCDMA

Flash

2003

- Pricing missteps
 - overall MSS & rev down
- But... wireless flash grows
- MLC: 2/3rd of Intel bits; 4th gen.

2004

- Wireless Memory System = complete solution
 - Low cost, high perf. (to 1Gb)
 - DWs @ most wireless OEMs
- MLC > 80% bits; move to 90nm

100% 80% 60% 40% 20%

Intel Transition to MLC



FORECAST

The Digital Home Platform: VISION to REALITY



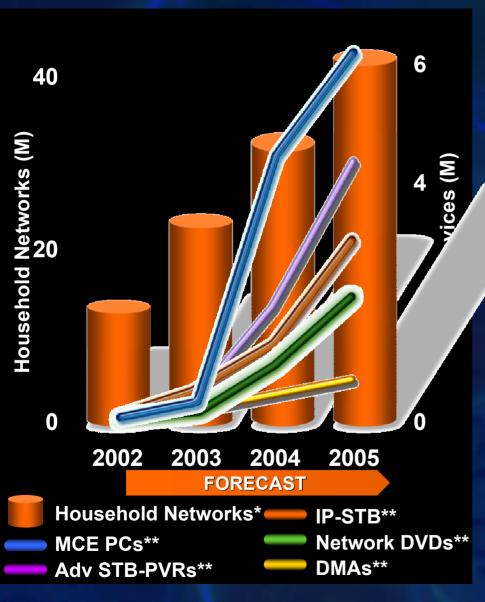
2003

- Digital Home Work Group ann'd June
 - v1.0 Spec Q1'04, 1st products 1H'04
- DTCP/IP spec for premium content
- Products: ref. designs → mainstream
 - 17 DMAs; 4 networked DVD, IP STB
 - Media Center PCs, "My Room" PCs
- Intel® 865 & 875 chipsets: ship >35Mu*
 - 60% with gfx; >50% DT mix by EOY
- Pentium[®] 4 Processor Extreme Edition
- HT: Premium price for premium tech



Sources: Intel

The Digital Home Platform: VISION to REALITY



2004

Toggle: Prescott + HT + Grantsdale

- PSC, HT > 60% of perf DT in Q2
- PSC: >70Mu in '04; 4GHz in '04
- Grantsdale: >50% of c/s by EOY

Launch next gen DH platform

 PCI-E gfx, DDR2, Azalia Audio, next gen S-ATA, Int. Access
Point

Drive the Digital Home Reality

What's Next? Dual core in '05



The Digital Office Platform: 14-32



2003

Ignite: +10M clients; jumpstart refresh

Biz PC growing 17% YoY in Q3

Servers: Record quarter**

+20% rev, +17% vol QoQ**

Gartner: IA systems +23.3% YoY***

2004

Ramp 1st 90nm svr & ws CPU in 1H

DP/MP/WS chipsets: 100+ designs

DP 800MHz FSB, DDR2, PCI Express

Server Unit MSS*

Q2'00 Q2'03

Sun 8% \rightarrow 5% Δ -3 pts

Intel 84% \rightarrow 88% Δ +4 pts



The Digital Office Platform: Itanium® Processor



Lawrence Livermore National Laboratory selects Intel® Itanium 2 processors for world's most powerful Linux cluster

'03: Year of Itanium

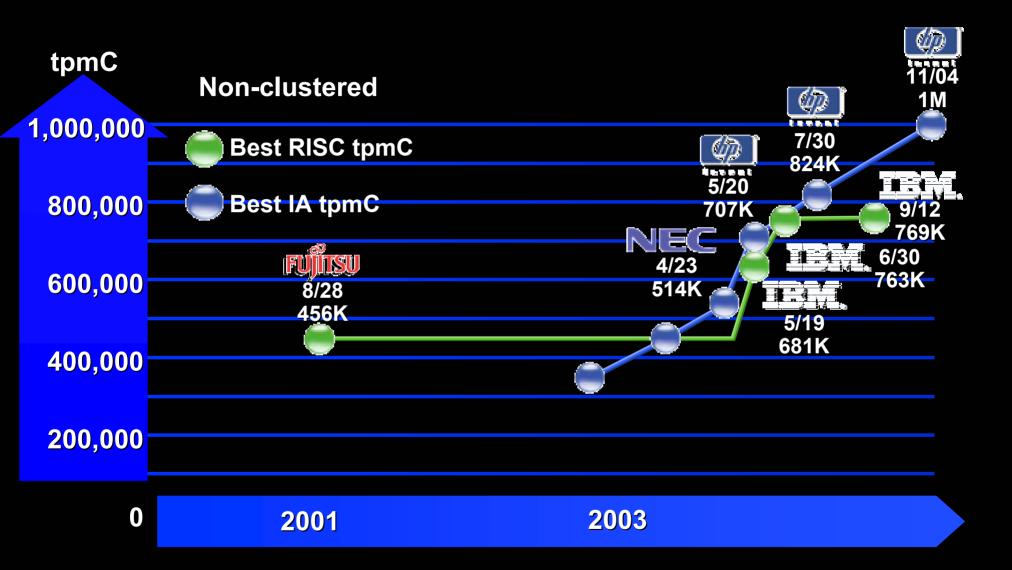
- >100Ku in '03
- New products (IBM X455...)
- Enterprises & ISVs embrace

What's Next?

- '04: add 9MB cache
- '05: Montecito
- Next: Tanglewood

*Source: www.tpc.org. Results as of 11/4/03. See backup slide for details on tpmC, \$/tpmC and Availability dates.TPC-C version 5; www.sap.com/benchmark; http://www.specbench.org/jbb2000/results/jbb2000.html

Competition Brings Out the Best: Itanium® Won...



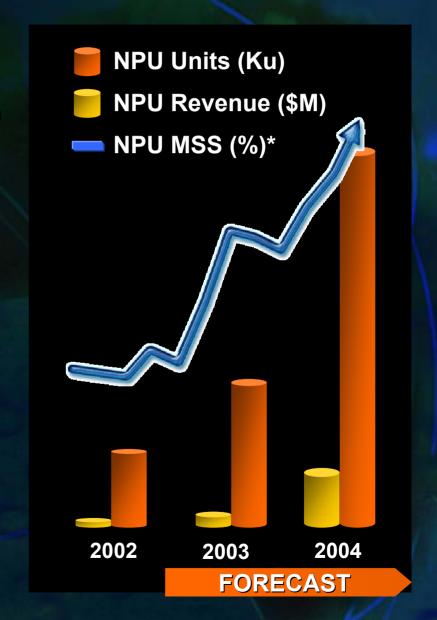
The Telco Platforms

2003

- Modularity happening, ATCA gaining
- #2 in NPU MSS: 11% ('02) → 17% ('03)
- ~20M GbE connections in '03

2004

- Accelerate modularity; est. ATCA
- #1 NPU MSS (IXP2650, Westport, Asuza)
- >25% growth in GbE connections
- Grow wireless beyond client:
 - Sample low-power handheld Si (Wi-Fi + BT)
 - Ship WiMAX Si





X-Platform Software Influence the Platform, Win Developers, Build Solutions

Dear developer,

2003

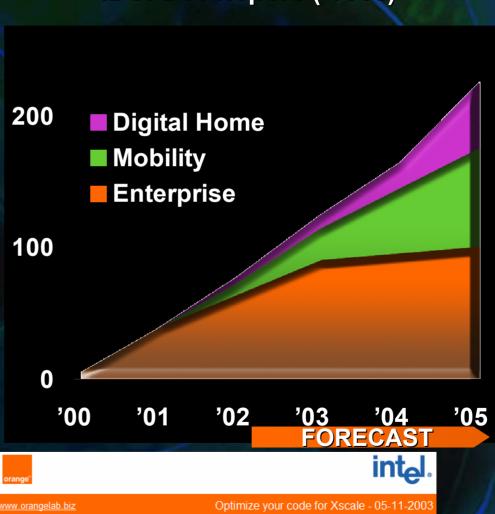
- Established unified tools
 - compiler, threading, libraries...
 - IPF, IA-32, XScale; Linux & Windows
- Change legacy <u>BIOS</u>; speed innovation
- Developer services: mobilized sw initiative

2004

- Enable "T's" in OS & apps
- Extend ISV reach x-platform



IDS: Developers ('000s)



Orange and Intel are collaborating on Intel(r) PCA based phones that are expected to be rolled out on the Orange network shortly. We are interested in incorporating your software in this solution.

RFID: Example Growth Driver...

RFID

- 100s of billions of objects generating TBs of data
- Will change real-time data flow → actionable information

Adoption

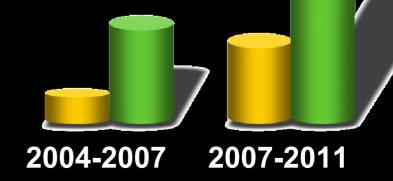
- Leaders: Retail & DoD
- Next: Mfg. + Pharma.

Expanding Usage

- '04-'07: case & pallet tags
- '07-'11: tags for high value (>\$10)

Intel Opportunity (Mu)

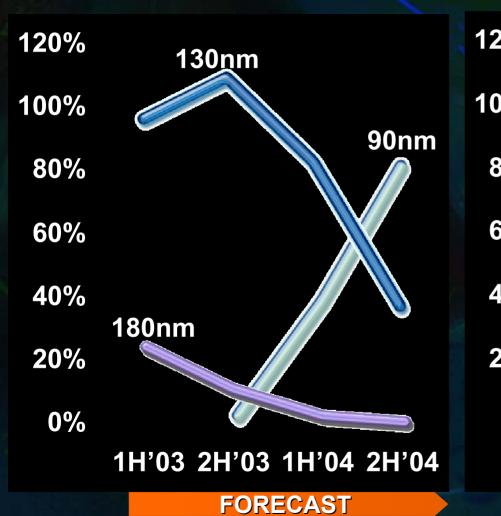
- Itanium® & Xeon™ Servers
- XScale[™]-based Readers & Network Gear

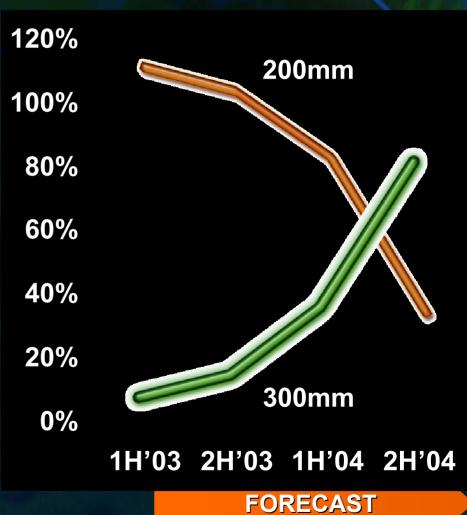




FORECAST

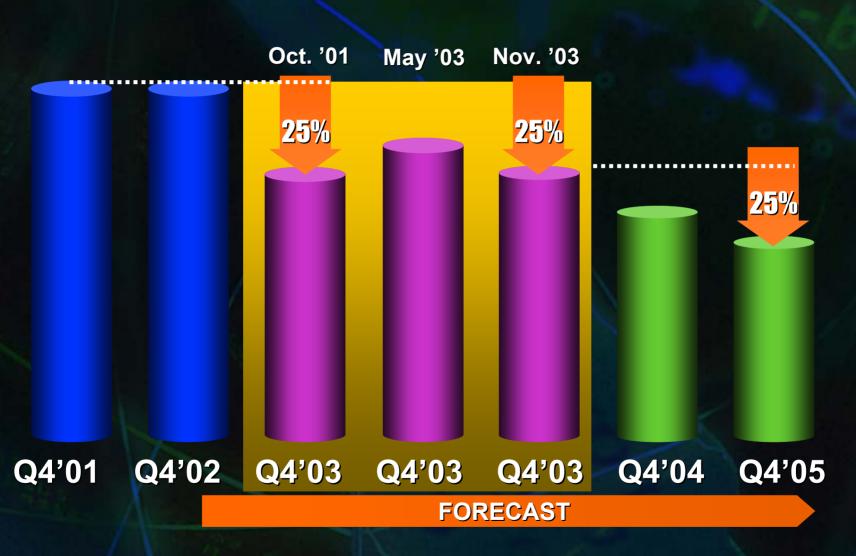
Microprocessors* Ramping on Advanced Technology Share of Microprocessor Unit Sales*





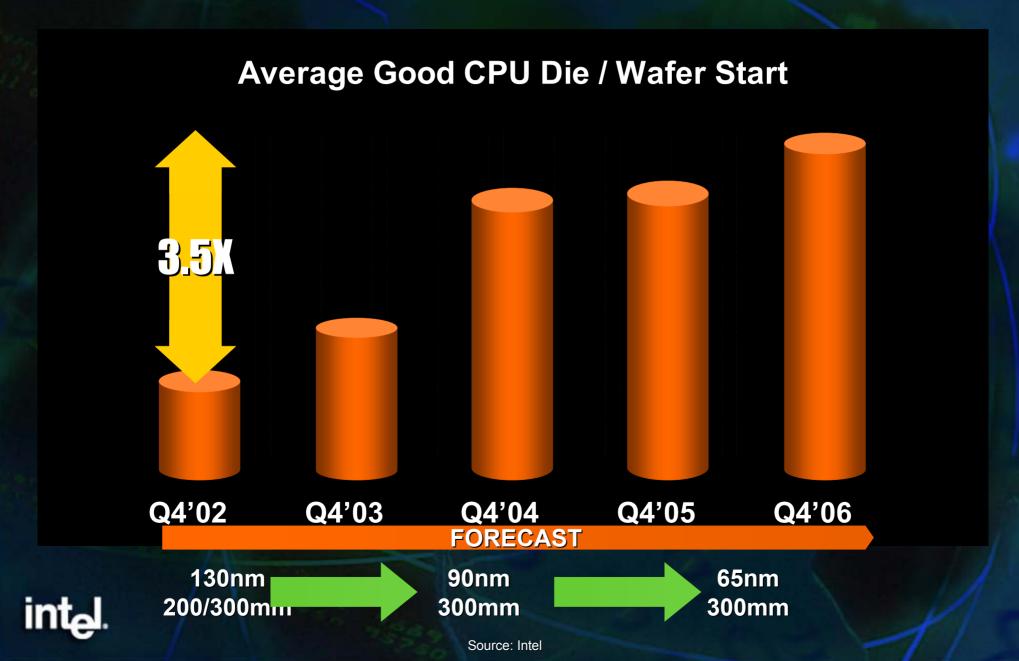


CPU Product Cost Trend





Geometry & Technology Driving Die per Wafer



After 3 years of the industry's deepest recession, we are exiting 2003...

Stronger than when we entered... relative to ourselves

Stronger than when we entered... relative to the industry

Extremely well positioned to grow...