





Building a Continuum of Computing



Spectrum of Computing on Intel Architecture **INTERNET-CONNECTED DEVICES PC CLIENTS SERVERS**

The Fastest Processor

on the Planet

CORE

inside

Intel's Smallest Processor Built with the World's Smallest Transistors

CE

Embedded

Handheld

Laptop

Desktop

Server

Enterprise

The Greatest Intel[®] Xeon[®] Performance Leap In History

High-Performance Computing

Internet Data Center

CONTINUUM Moving Seamlessly Throughout the Computing Spectrum

IDF: Established 1997

Technology

Creating the Continuum

Opportunity for Developers

SOFTWARE

PLATFORM Architecture

Technology

MOORE'S LAW

Intel's Relentless Pursuit of Moore's Law

180 nm 1999

118

8

1 11

130 nm 2001 90 nm 2003

2007

45 nm

65 nm

2005

^{32 nm} 2009

22 nm 2011

IDF2009

Intel's Second Platform Architecture Internet Connected Devices

Intel® **ATOM**[™] **Processor Cores**

System-on-Chip **Products**

IDF2009 INTEL DEVELOPER FORUM

Revolutionary Change for Intel SoCs at 32nm

Modular Integration Bridge to External Ecosystem Fabrics

IDF2009 INTEL DEVELOPER FORUM

Technology

Creating the Continuum

Opportunity for Developers

Worldwide PC TAM Units (M)

Source: Gartner

Sept. Update

June Update March Update

New Intel[®] Core[™] Processors Entering Mainstream

intel

CORE

inside™

Enterprise Clients Intel[™] vPro[™] Technology Shipments

Smarter, Energy-Efficient Performance

Expanded Manageability

Enhanced, Proactive Security

2006

2007

Mainstream Consumer Computing Create and Share Content across the Continuum

MORE THAN REDUCTION

2009

The Atom Software Environment

inside™

inte

Atom

WIND RIVER

Netbooks Take Off Cumulative Volume (Millions of Units)

Quarters Since Launch Source: Intel, ABI, Future Source

Intel[®] Atom[®] Processor-based Netbooks (2008)

Wii (2006)

iPhone (2007)

Enabling Cross-Platform Applications

INTEL DEVELOPER FORUM

Connecting the Embedded World

Biometrics Finger Print Reader Point of Sale **Digital Weight Scale** ATM Hotel Concierge System Handheld Barcode Reader Handheld Wireless Spectrum Tester Handheld Ultrasound **Hospital Bedside Terminal Voting Machine Lottery Machine Network Security Appliance** VoIP PBX **Test and Measurement Appliance Education Terminal Communications Gateway Programmable Logic Controller Computer Numeric Controllers Industrial HMI Panel** Industrial PC **Avionics System** Wearable PC **Connected Soldier Device Military Soldier Training Device**

Subway Ticket Station

In-Vehicle Infotainment IVI TAM (M) Units

Hot Chip40

IDF2009

WE SHOW DO

MACH RECOMM

Source: TRG/iSuppli March 2009, IMS June 2009

Next Generation cross-platform high-end infotainment system

"Harman International[®] is able to offer fully integrated, energy efficient infotainment solutions based on the Intel[®] Atom[™] processor in order to respond to the continuously increasing processing requirements for new media formats and connectivity in multi-seat environments. This enables us to accelerate the development and to provide leading-edge infotainment technologies for an uncompromised end-user experience at highest level."

inside

Marek Neumann

Vice President Advanced Engineering Harman International Automotive Division

Mercedes-Benz C- and S-Class

Progress Towards Handhelds Major Reductions in Power and Form Factor

2008

Menlow Board Size 8,500 sq mm Standby Power 1.6W

2010

Moorestown

Board Size – Reduced 2x Standby Power Up to 50x

Forecast

345 61008

04

Medfield Board Size - Reduced Standby Power - Lower

Moblin v2.1 User Interface

ck Richards

+8

End call

Claire Alexander

Moblin User Interaction and User Experience Design Lead

IDF2009

5:35 Aug 5th 2009

15:35

*

Browsel

Ø

Alex Jones

Alex Jones missed call E2 E3

lames Cameron

Server: The Democratization of Data

Worldwide Growth Projections 2008 - 2012

Source: IDC Directions '09, iSuppl 3'09, Forrester 2'09

INTERNET-CONNECTED DEVICES

Interactions (B-per day) 475B

Intel Architecture Scales the Server Spectrum

Mission Critical

Technology

Creating the Continuum

Opportunity for Developers

CONVERGENCE

Continuum = Opportunity

In the future I want... I want a time machine.

Sponsors of Tomorrow: (intel)

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室町

