

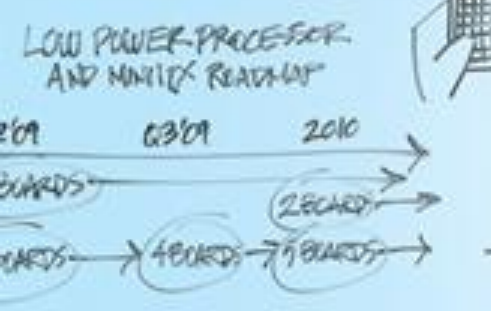
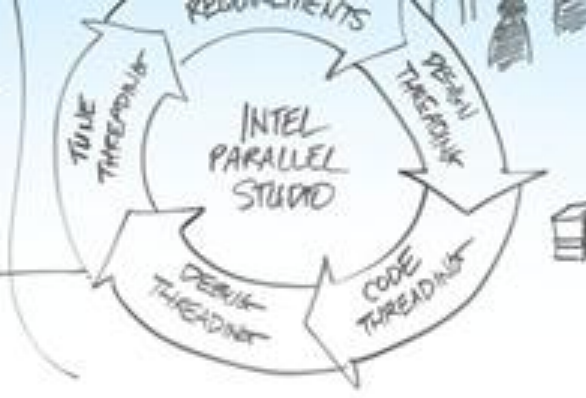


2005

- 5.1M BOPS
- 8 RACKS
- 126 SERVERS
- 240 SQ FT
- 48 KW

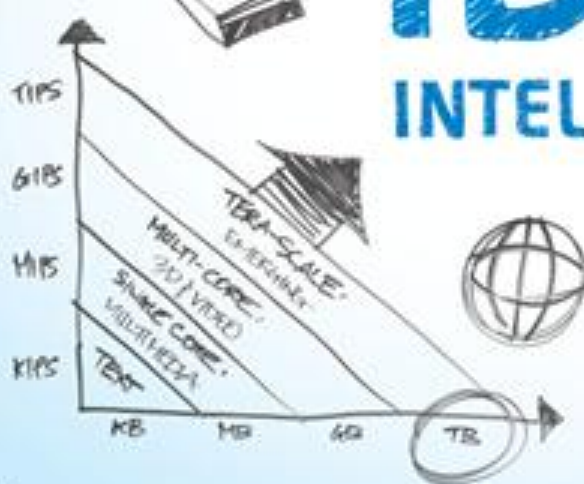
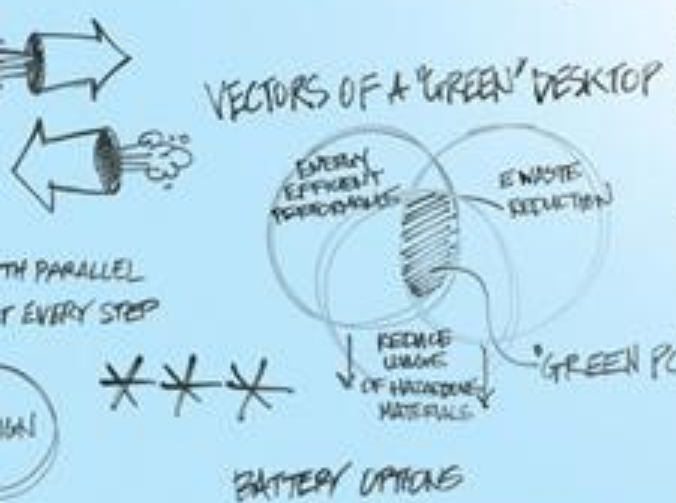
2009

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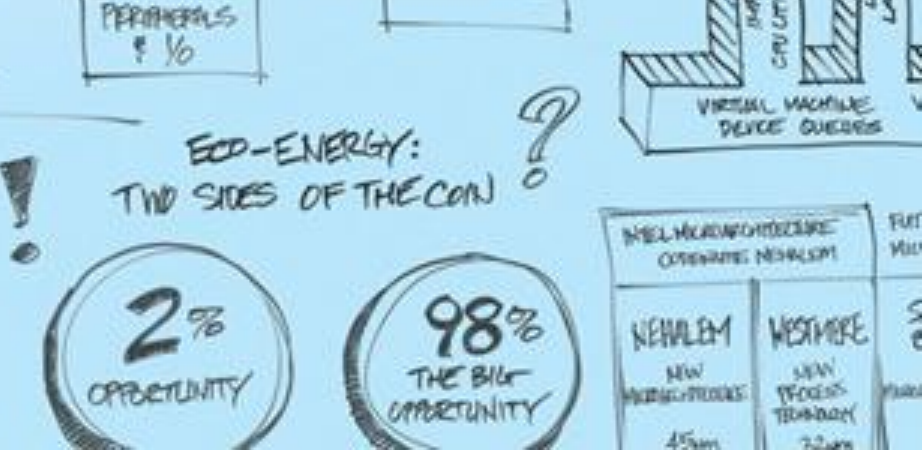
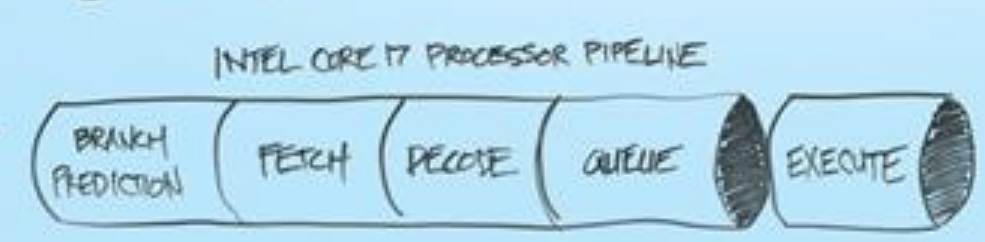
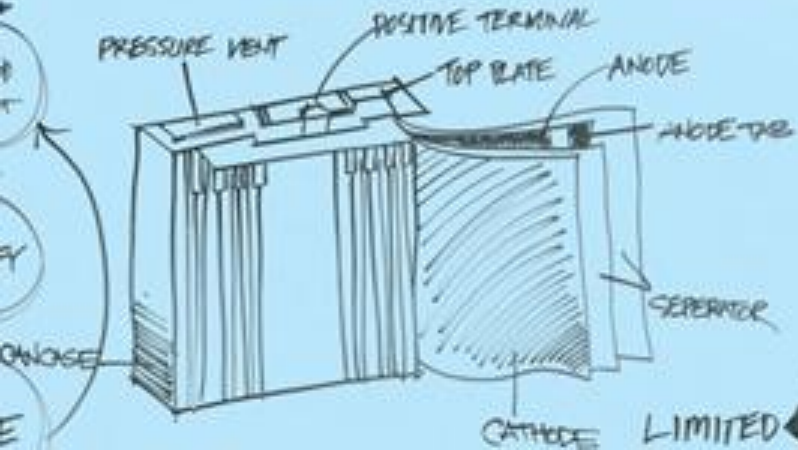
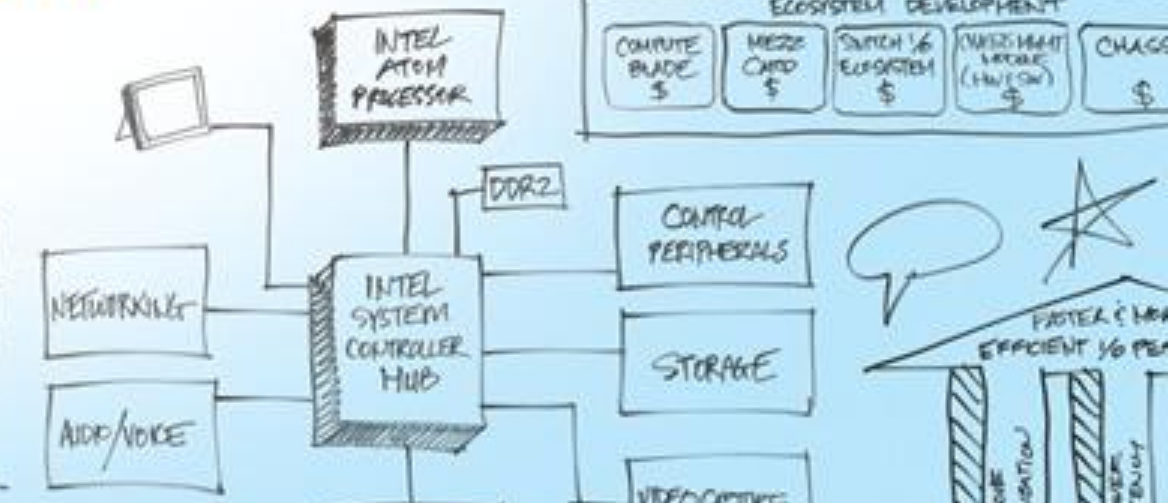
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STORAGE: HARD DISK DRIVE OPTIONS

2.5" HDD		1.8" HDD
10-250 GB	CAPACITY	60-120 GB
7.95 mm	THICKNESS	5 mm
DUAL	PLATTER	SINGLE
1x	COST	2x+ SAME CAPACITY



INTEL MICROPROCESSOR	OPERATING FREQUENCY	TRANSISTORS
NEHALEM	3.06 GHz	731M
WESTMERE	3.06 GHz	731M



Developing Across the Continuum of Intel Platforms



Translating Creative Visions
into Experiences
On Intel Architecture

IA is Expanding Across Devices

Giving Software Developers a Larger Footprint

INTERNET-CONNECTED DEVICES



CE Embedded Handheld Netbook

MAINSTREAM



Laptop Desktop

SERVERS



Enterprise Server High-Performance Computing Internet Data Center

Tools For Every Stage of Development

Announcing
Intel® Parallel Studio

www.intel.com/go/parallel

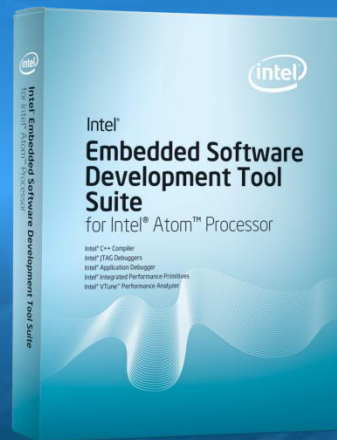
- Intel® Parallel Advisor
- Intel® Parallel Composer
- Intel® Parallel Inspector
- Intel® Parallel Amplifier

Performance and Forward Scaling
to Many-Core Processors

A stack of four software boxes for Intel Parallel Studio, each with the Intel logo and the word 'Parallel' on the cover.

Delivering on Our Promises: Parallel Tools for Client Developers

EMBEDDED
AND MOBILE



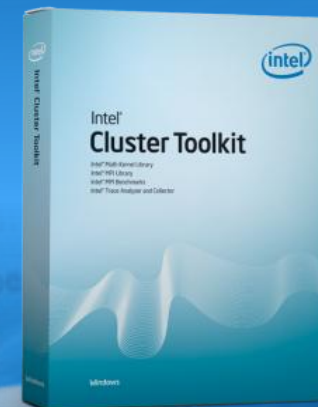
NETBOOKS,
LAPTOP, DESKTOP



SERVERS AND
WORKSTATIONS



CLUSTERS



~1000
Downloads per Day!

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“Thanks Intel, you guys rock! I have an image processing GUI app that... **was running quite slow.** So I decided to give **Parallel Amplifier** a run... it pointed me to the right source line... and voila our app is now almost **10 times faster.**”

Dat Chu

Research Assistant
Computational Biomedicine Lab,
University of Houston



cakewalk
by Roland

Carl Jacobson

Vice President, Marketing
Cakewalk

CREATED BY MUSICIANS
FOR MUSICIANS

TOGETHER: POWERING CREATIVITY



2001

2003

2005

2006

2008



- Increased Power
- More Creative Tools
- More Tracks
- More Effects
- Lower Latency
- Higher Audio Quality

=

BETTER MUSIC

The Future of Intel Tools

RAPIDMIND

COMPANY PRODUCT SUPPORT CONTACT

We are now part of Intel Corporation

We are now part of Intel Corporation, the leader in software development tools for software parallelism and performance. This change is a great development for our customers and for easing the effort in parallel programming. We hope you share our excitement for the future of software parallelism and performance.

Announcements
Multi-core CPU
Acceleration

SPOTLIGHT RAPIDMIND MULTI-CORE

Easily build applications

The RapidMind Multi-Core Platform enables software developers to build applications faster, with less risk.

Create manageable applications that leverage the full power of Intel® and the application performance of the Cell Broadband Engine.

NEWS | RSS FEEDS
> We are now part of Intel Corporation... [August 19, 2009]

UPCOMING EVENTS
> SC'09 November 14-20, 2009

CILK ARTS

Home Why Cilk++? Cilk++ Technology Products Case Studies Multicore Blog Forum

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Smooth Path to Multicore

Cilk++ has moved to Intel Corporation! This will allow us to go even further in helping make parallel programming easier. We are very excited about the synergies between Intel's leading tools for parallel programming and the technology of Cilk++. We will have more details later this year about products from Intel that will include Cilk technology. We encourage everyone to visit us at the [Intel Developer Forum](#) in September 2009.

The Cilk++ cross-platform solution offers the easiest, quickest, and most reliable way to maximize application performance on multi-processor systems. Cilk++ is a high-level, portable, and easy-to-use programming language that allows developers to write parallel code that runs on multi-processor systems.

Cilk++ at a Glance

- [Cilk++ data sheet and specifications](#)
- [Cilk Arts briefing \(presentation with demo on a 16-core system\)](#)

Latest Posts

- [Concepts in Multicore Programming - Lecture 1](#)

Most Popular Posts

- [What the Hell is Parallelism, anyhow?](#)
- [Thread Pools: The Simplest Concurrency Platform](#)
- [C++ Inventor: Where's the Multicore Project Questionnaire](#)

Embedded Devices Offer Huge Volume Opportunity

DIGITAL SIGNAGE



26%

IN-VEHICLE INFOTAINMENT



17%

DIGITAL SECURITY AND SURVEILLANCE



50%

IP MEDIA PHONES



71%

Annual Growth Rates from 2009-2015

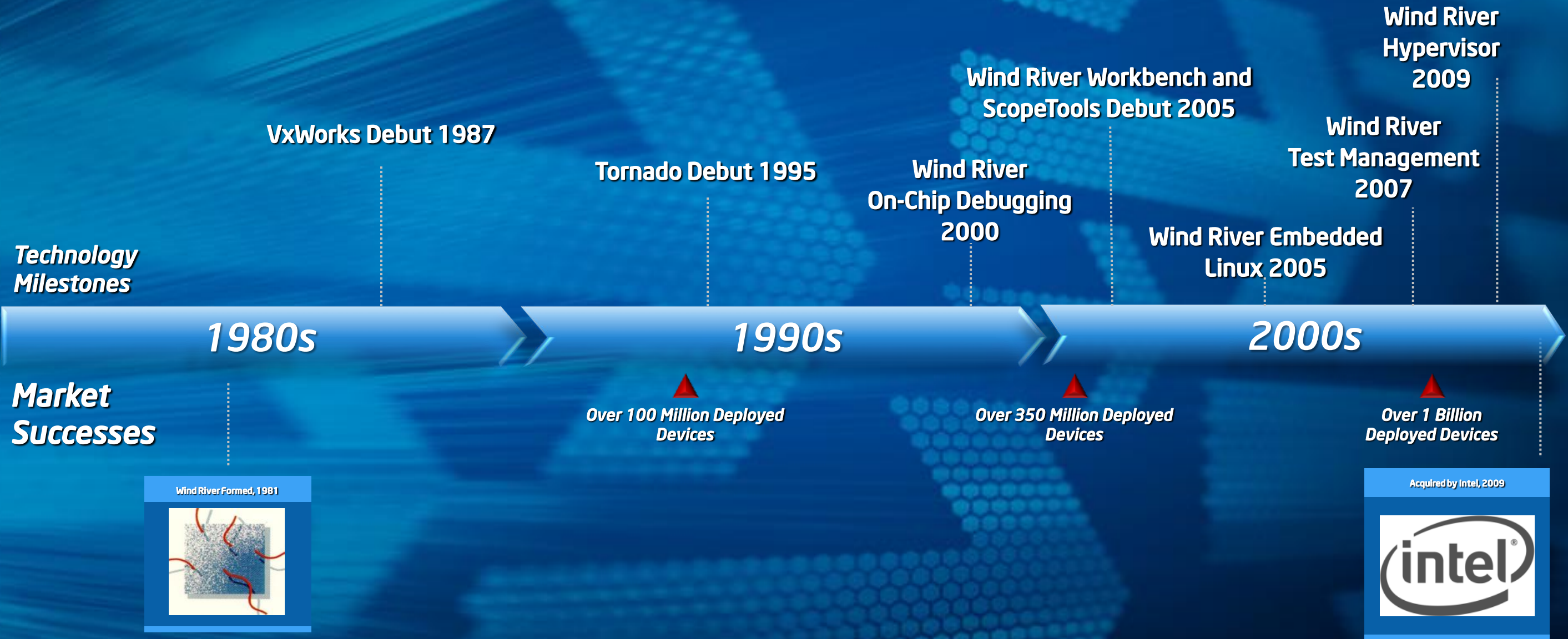
Hear what our customers and partners are saying about how Wind River solutions help solve business needs.



Scot Morrison

Senior Vice President
and General Manager
Wind River

The Past: A Brief Look Back



The Present: Today's Device Landscape

INCREASING CONSTRAINTS



- Performance
- Footprint
- Power Management
- Boot Time
- Determinism
- Optimized Silicon

MULTICORE ADOPTION



- Unicore To Multicore
- System Consolidation
- Multiple OS Platforms And Middleware
- Virtualization
- Offloading
- Multicore-Aware Tools

CONNECTIVITY



- Globally Connected
- Wireless/Wi-fi
- Mobility
- USB / Bluetooth

SAFETY AND SECURITY



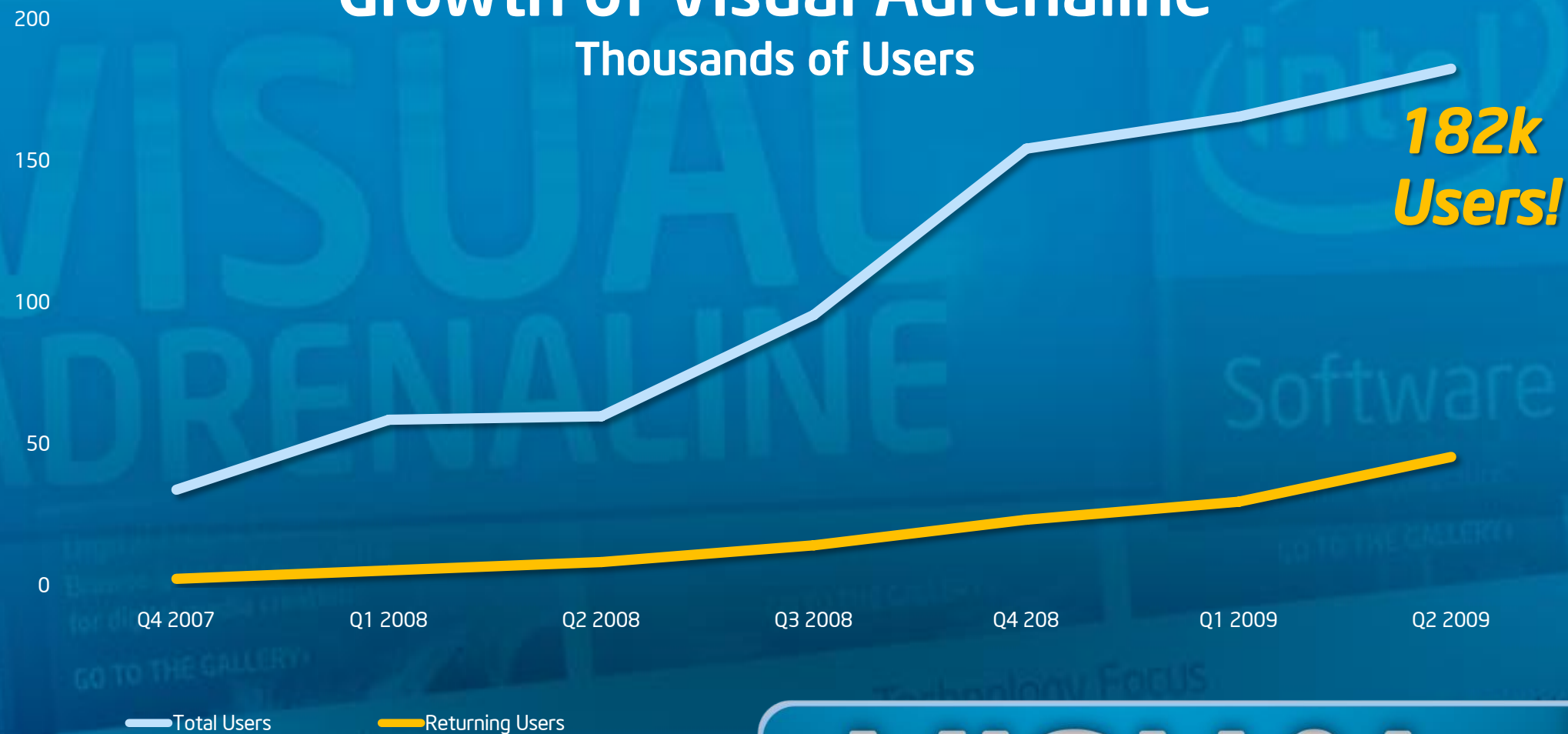
- Safety Certification
- Security Certification
- Mixed Safety Levels
- Multiple Independent Levels Of Security (MILS)

The Future is Now



Tackling Visual Computing

Growth of Visual Adrenaline Thousands of Users



**182k
Users!**

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**VISUAL
ADRENALINE**



Software

Launching: Intel Media Software Development Kit

Product Plans:

Prototyping:





Larrabee: Fully Programmable

Expanding into Small Form Factors

INTERNET-CONNECTED DEVICES



CE



Embedded



Handheld



Netbook

MAINSTREAM



Laptop



Desktop

SERVERS



Enterprise Server



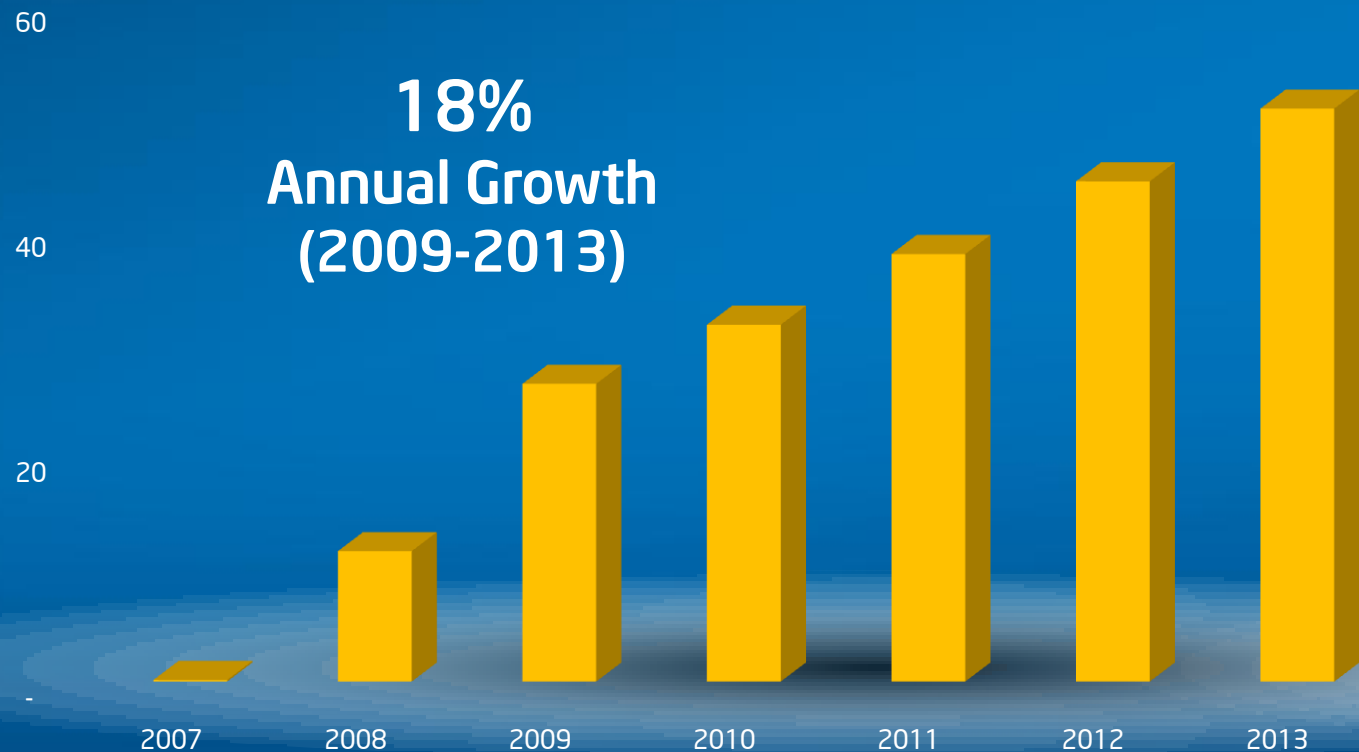
High-Performance Computing



Internet Data Center

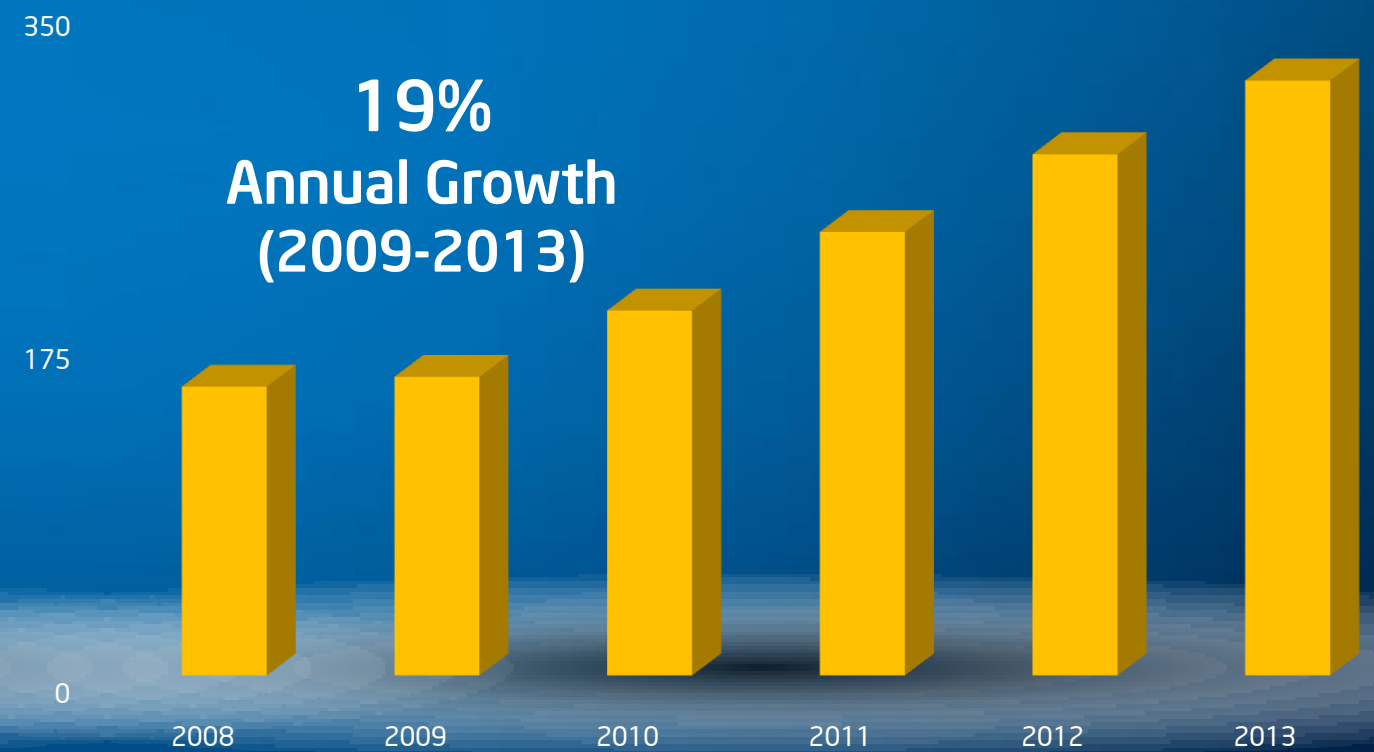
Double Digit Growth in Expanding Markets

Netbook Forecast
(millions of units)



Source: IDC, June 2009

Converged Mobile Device Shipments
(millions of units)



Source: IDC, May 2009



New Usage Models For Atom-based Devices

IDF2009
INTEL DEVELOPER FORUM





John Thode
Vice President, Small Consumer Devices
Dell Corporation

Mark Shuttleworth
Founder and CEO
Canonical

The Intel® Atom™ Developer Program



Silverlight powers rich application experiences wherever the Web works.

Experience this in Silverlight!
Install the free Plug-in.



View Continental Airlines Case Study

Ian Ellison - Taylor

General Manager
Client Platform and Tools
Microsoft Corporation



Microsoft®
Silverlight™

The Vision

CLOUD

PC



MOBILE



TV



Developers + Service Providers

Announcing... Silverlight for Moblin



Microsoft®
Silverlight™



symbian

Windows phone

Microsoft®
Expression® Studio

Microsoft®
Visual Studio®



1 in 3
PCs installed

6 million
.NET Developers

Adoption

NETFLIX

Continental
Airlines

Announcing... Silverlight for Moblin



Microsoft®
Silverlight™



symbian

Windows® phone

Microsoft®
Expression® Studio

Microsoft®
Visual Studio®



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6 million
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Adoption

NETFLIX

Continental
Airlines The Continental Airlines logo, featuring a globe icon.

Silverlight Smooth Streaming

Adobe® Air®

Supporting the Intel® Atom™ Developer Program



“We expect the Intel Atom Developer Program will be a great opportunity for the Flash Platform community developing on Adobe AIR to monetize their AIR applications.”

David Wadwhani

General Manager, Vice President
Adobe Corporation

The Functionality of the Intel Developer Program



- Helps developers drive **Innovative** applications and usage models for end users
- Provides tools, SDKs and Community Support
- Automatically **Validate** applications
- Worldwide distribution
- Marketplace to **Monetize** Their Code

appdeveloper.intel.com



Not Your Everyday Developer Program





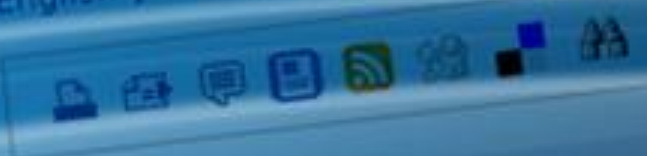
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Total Points: 10,742
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Intel® Software Network TV - live shows on Parallel programming, Visual Computing and Teach Parallel

- Tue 9/15 8am PST - Parallel Programming Talk: Why develop for N-cores?
- Tue 9/22 10am PST - Teach Parallel
- Tue 9/22 2:30pm PST - Visualize This! Parallel Studios in game development



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<p>Intel® Software Network TV - live shows on Parallel programming, Visual Computing and Teach Parallel</p> <ul style="list-style-type: none"> • Tue 9/15 8am PST - Parallel Programming Talk: Why develop for N-cores? • Tue 9/22 10am PST - Teach Parallel • Tue 9/22 2:30pm PST - Visualize This! Parallel Studios in game development 	<p>Entry submission for the 1st problem "Strassen's Algorithm" of the Intel Threading Challenge 2009 Phase 2 closes Friday, September 11, 2009 at midnight (PDT). Submit your solution TODAY!</p>
	<p>Enabling High-Performance Video Encoding, Decoding, and Preprocessing: using the Intel® Media SDK to create video solutions with standard APIs. Download the Media SDK now!</p>
	<p>Join host Arti Gupta as she interviews Brad Peebler, VP of Luxology, about his company's use of threading and multicore to meet its scale needs.</p>
	<p>Intel Releases Preproduction Windows 7 Graphics Driver. Learn more from Doug Holland.</p>

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Downloads

- Code
- Download the latest Intel® AMT Software Development Kit (SDK)
- Download the latest version of Intel® AMT Setup and Configuration Service - SCS
- Intel® Parallel Inspector's Solution Explorer context menu stops working after installing Intel® Parallel Advisor Lite
- Intel® C++ STM Compiler, Prototype Edition 3.0

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Software at Intel
is all about
Developers

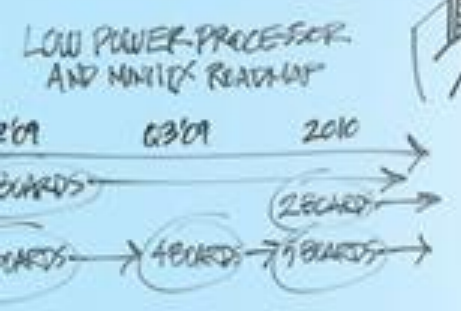
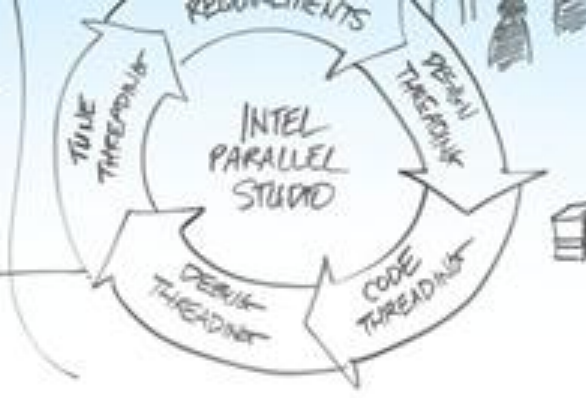


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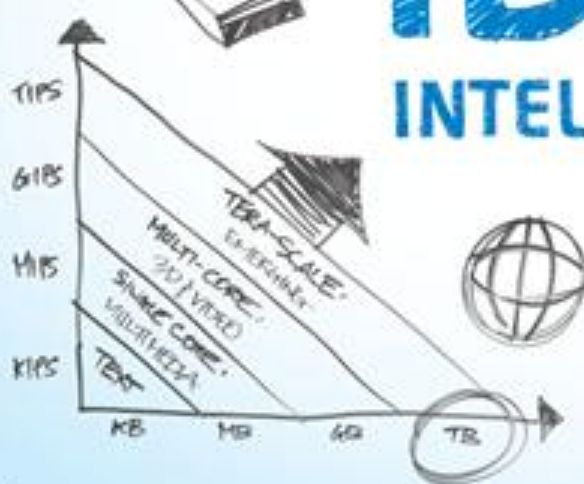
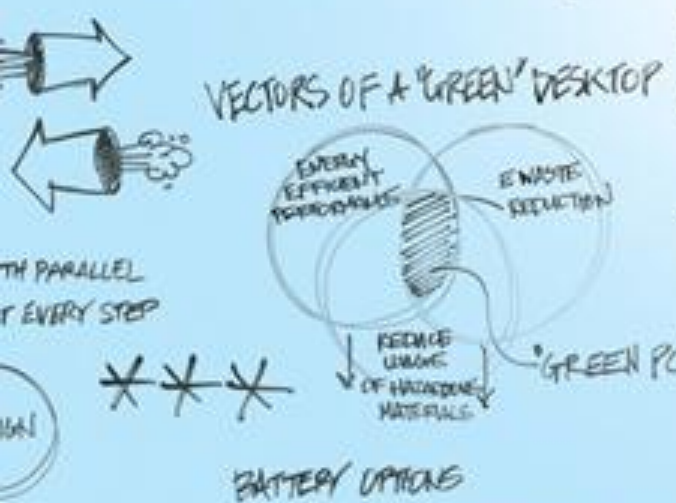
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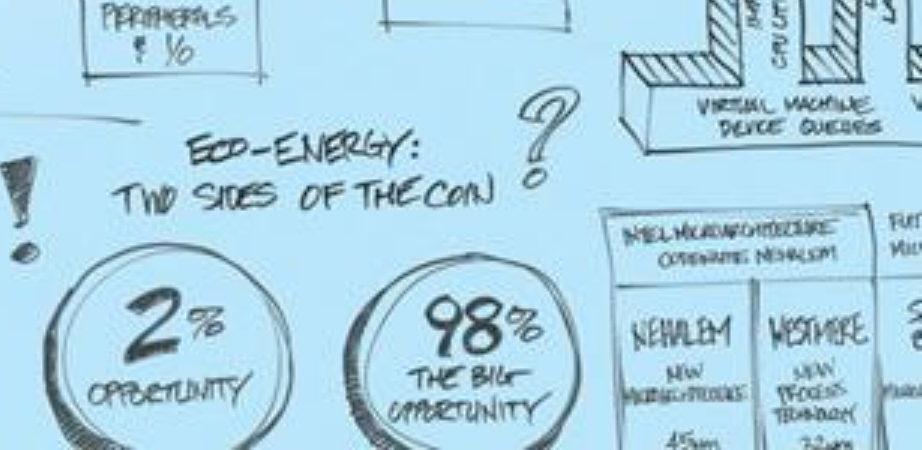
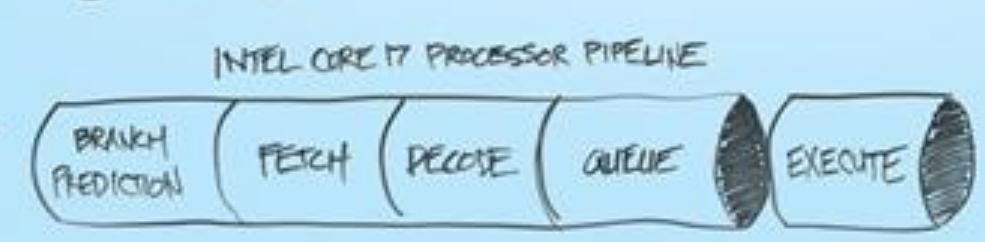
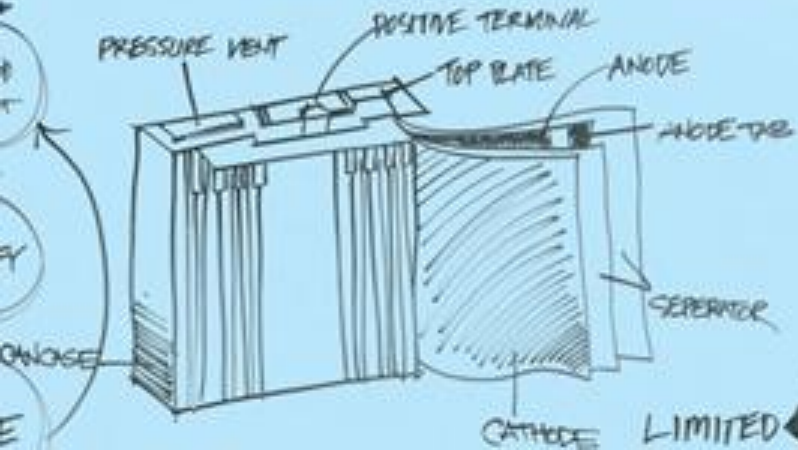
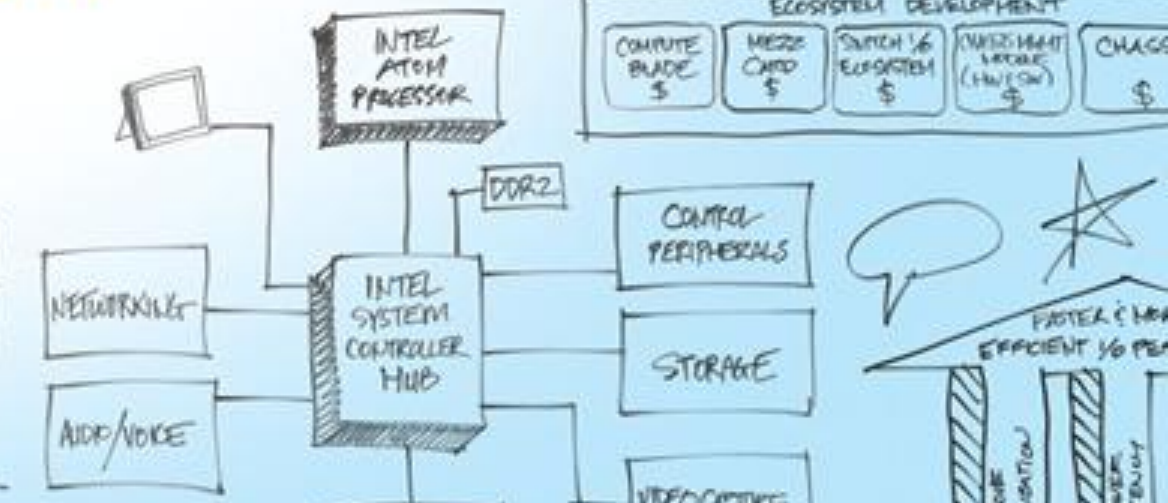
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DUAL	PLATTER	SINGLE
1x	COST	2x+ SAME CAPACITY



INTEL MICROPROCESSOR OPERATING NEARLY

NEHALEM	WESTMERE
NEW MICROPROCESSORS	NEW PROCESSOR TECHNOLOGY
45nm	32nm