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**Blending world-class knowledge, cultures and people**
The New AMD: Capabilities
A New Level of Choice: Customer-Centric, Open PC Platforms

Commercial Client
- Stable image for the enterprise
- Best platform support for Windows Vista™

Gaming & Media Computing
- Best-in-class Windows® Media Center Edition platform experience

Mobile Devices
- Optimized and scalable multimedia processing solutions for better time-to-market for OEMs
- Longer battery life with no compromise in performance

Emerging Markets
- Development of integrated CPU-GPU
- Accelerated new business and deployment models
The Next Major x86 Inflection Point

<table>
<thead>
<tr>
<th>Year</th>
<th>1981</th>
<th>1990’s</th>
<th>2000’s</th>
<th>2010’s</th>
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</thead>
<tbody>
<tr>
<td>Legacy Processing Era</td>
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<tr>
<td>Single Core CPUs/GPUs</td>
<td></td>
<td></td>
<td></td>
<td>Multi-Core CPUs/GPUs</td>
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<tr>
<td>Traditionally Optimized Platforms</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Accelerated Processing Era</td>
<td></td>
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</tbody>
</table>

The Era of Accelerated Computing is coming, and AMD is again leading the way.
Continuum of Solutions

Accelerated Computing

"Torrenza"

"Stream" general purpose GPU

Add-in

Chipset

Chipset compatible accelerator

Socket

HTX Accelerator

PCI-E

PCIE Accelerator

"Fusion"

Package level integration (MCM)

Silicon level integration

Accelerated Processors

CPU

Accelerator

Accelerator

"Stream" example of a GPGPU accelerator under Torrenza

Fusion – AMD’s code name for: Accelerated Processors (integrated acceleration)

Torrenza – AMD’s code name for: slot or socket based acceleration

Socket compatible accelerator

Accelerator

Opteron Socket

Accelerator

Fusion – AMD’s code name for: Accelerated Processors (integrated acceleration)

Torrenza – AMD’s code name for: slot or socket based acceleration

Stream – Specific example of a GPGPU accelerator under Torrenza

Slot or Socket Acceleration
First AMD Accelerated Processor Combining CPU and GPU

**Fusion Vision**

Create the optimal computing experience for an increasingly mobile, graphics- and media-centric world

Deliver step-function improvements in microprocessor performance-per-watt-per-dollar over today’s CPU-only architectures
A New Level of Innovation

Foundry
- Design innovation high
- Process innovation moderate

Build/Own
- High value capture in mfg
- Process innovation high
- Design innovation high

New York*

* Potential AMD Fab facility
Manufacturing: Continuing to Set the Standard - AMD Dresden

**Fab 36**
- 300mm microprocessor Fab
- Output continues to increase
- 65nm volume production underway
- Reached full 65nm conversion in mid-2007
- Ramped 65nm at mature yields with extremely low defect densities
- First 65nm production wafers left Fab36 in October 2006

**Fab 30 / Fab 38**
- 200mm microprocessor Fab with 300mm transition to Fab38 started in 1H07
- New “Bump and Test” facility completed Q107
Roadmaps and Technologies
Quad-Core AMD Opteron™ Advantage

More than just four cores
- Significant CPU Core Enhancements
- Significant Cache Enhancements

World-class performance
- Native Quad-Core
  - Faster data sharing between cores
- Enhanced AMD-V™
  - Nested paging acceleration for virtual environments

Reducing total cost of ownership
- Performance/Watt leadership
  - Consistent 95W thermal design point
  - Low power 68W solutions
- Drop-in upgrade
  - Socket F compatibility – BIOS upgrade
  - Leverage existing platform infrastructure
- Common Core Architecture
  - One core technology top-to-bottom
  - Top-to-bottom platform feature consistency
## AMD Desktop Platform Roadmap

<table>
<thead>
<tr>
<th></th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
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<tbody>
<tr>
<td><strong>Processor</strong></td>
<td></td>
<td></td>
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<tr>
<td>Dual Core HT 1.0/2.0</td>
<td>Dual Core, Quad Core Shared L3 Cache HT 3.0</td>
<td>DDR2/DDR3 Socket AM2/AM3 Quad Core Dual Core Single Core</td>
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</tr>
<tr>
<td>Single Core HT 1.0/2.0</td>
<td></td>
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</tr>
<tr>
<td>Platform</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>125W/89W/76W/65W/62W/45W</td>
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<tr>
<td></td>
<td>DDR2 Memory Technology</td>
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<tr>
<td></td>
<td>DDR2/DDR23</td>
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<tr>
<td>HyperTransport™ Technology (HT) 1.0/2.0</td>
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<td>HT 3.0</td>
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<tr>
<td>Chipsets</td>
<td></td>
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<tr>
<td>CrossFire™ dual-graphics, HD audio</td>
<td>CrossFire dual-graphics, HT 3.0 PCIe Gen 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DirectX9 integrated graphics, HD audio</td>
<td>DirectX10 integrated graphics PCIe Gen 2, HT 3.0</td>
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</tbody>
</table>
Introducing AMD Phenom™ Processors

May 14, 2007, we announced our vision and strategy for true quad-core client technology with the unveiling of the AMD Phenom™ processor family.

Next-generation AMD Phenom processors allow users to...
experience the Phenomenal

Native, true multi-core capability for an experience that is

Exquisitely powerful
- True dual to quad-core architecture in an elegant design for ultimate performance with extreme bandwidth and a hair-trigger response

Intensely visual
- Immersive and media-rich compute experiences to help users realize new possibilities and find new inspiration

Strikingly Efficient
- Intelligent use of energy and system resources – stable, reliable, virtualization-ready and energy astute
AMD Desktop Products 2H’07

AMD Phenom™ FX processors
*Ultimate Performance*
True Quad-core

AMD Phenom™ X4 and X2 processors
*Phenomenal Experience*
True Quad- and Dual-core

AMD Athlon™ X2 processors
*Do More In Less Time*
Dual-core

AMD Sempron™ processors
*Everyday Computing*
Single-core
Questions?

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