

# Advanced Micro Devices, Inc.

**Fred Weber, Corporate VP and Chief Technology Officer**

December 8, 2004

# Cautionary Statement



**This presentation may contain forward-looking statements, which are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from current expectations. Risks include the possibility that global business and economic conditions will worsen in 2005 and beyond resulting in lower than currently expected sales; that Intel Corporation's pricing, marketing programs, product bundling, new product introductions or other activities targeting the company's processor business will prevent attainment of the company's current sales plans; that demand for personal computers and, in turn, demand for the company's processors will be lower than currently expected; that adoption of AMD64 products by OEMs will not occur as expected; that demand for the company's Flash memory products will be lower than currently expected, particularly in the high-end mobile telephone sector and that the company will not be able to increase Flash memory market share; that Intel Corporation will negatively affect NOR Flash memory prices; that customer acceptance of MirrorBit™ technology will not continue to increase; that the company will not be able to meet demand for its products; that the company may not achieve its current product and technology introduction schedules; that the company will not be able to raise sufficient capital to enable it to establish leading-edge capacity to maintain its market leadership positions; that the company may not be able to penetrate further into emerging markets; and that solution providers will not timely provide the infrastructure, including operating systems and applications, to support the company's AMD64 technology.**

**Because the company's actual results may differ materially from its plans and expectations, we encourage you to review the company's filings with the Securities and Exchange Commission including, but not limited to, the Annual Report on Form 10-K for the year ended December 28, 2003, and the Quarterly Report on Form 10-Q for the quarter ended September 26, 2004.**

Leading the industry to  
pervasive 64-bit computing



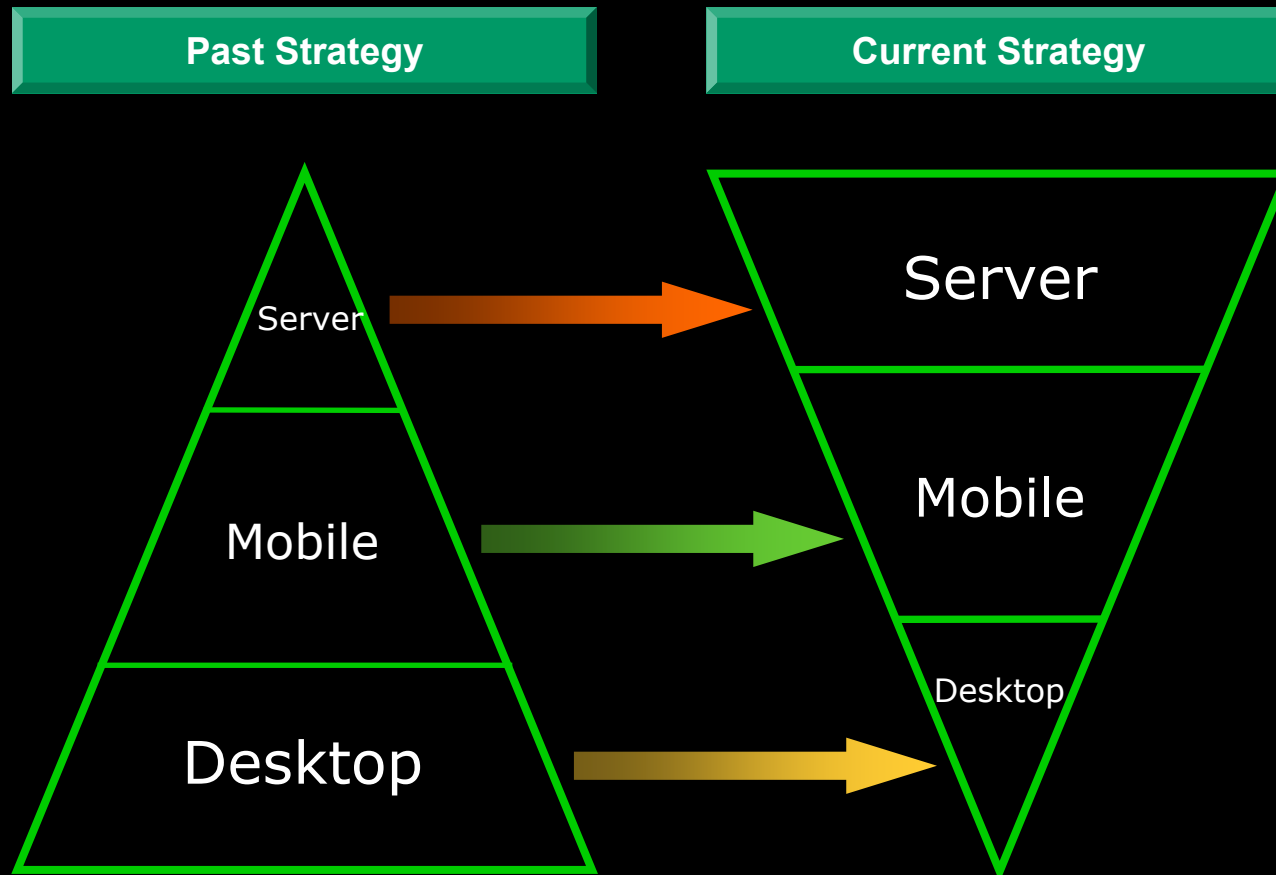
## ***Core attributes:***

- Performance
- Security & Dependability
- Investment Protection

## ***End-customer benefits:***

- Do what you want, when you want
- Enhanced Virus Protection, a trusted participant in the e-commerce community
- Simultaneous 32/64-bit x86-based computing, ready for today's and tomorrow's software

# AMD Microprocessors: Focused on Our Customers' Most Relevant Opportunities



**Area represents priorities and focus**

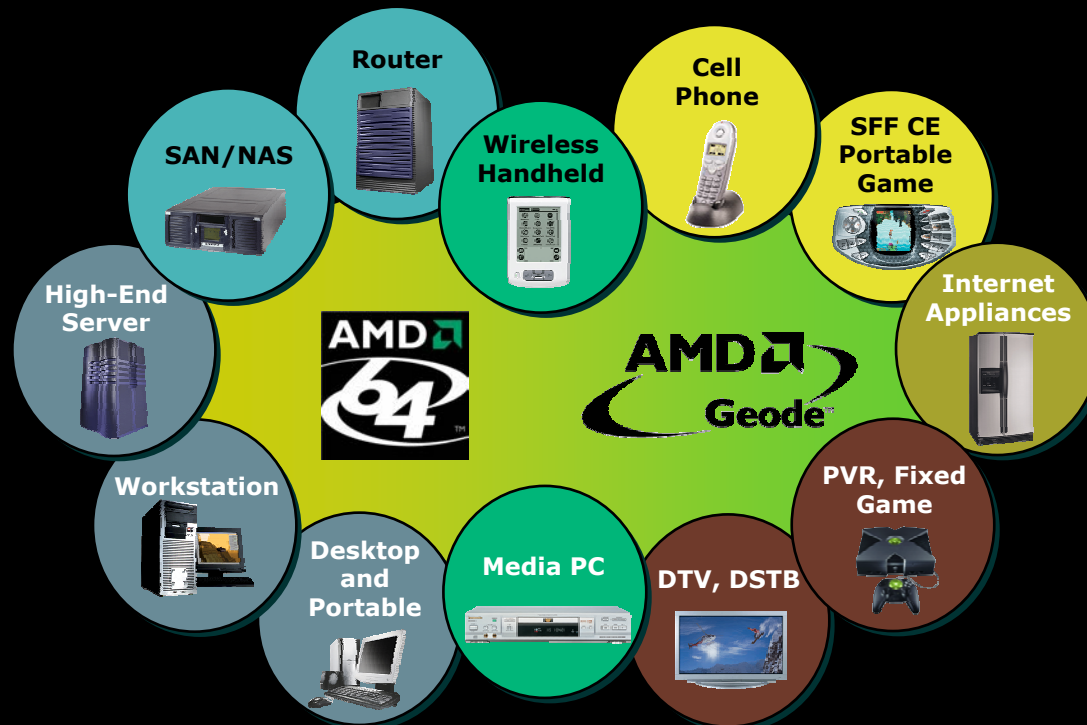
# Evolving AMD's Product Portfolio

*x86 everywhere*



Ultra-low-power x86 processors and AMD64 enable ***x86 everywhere***

- **Simplicity for both commercial and consumer**
- **Expandability to accelerate innovation**
- **New opportunities for AMD**



# AMD Commercial Evolution



**Server**

**Broaden tier 1  
platforms and  
segment reach**

**Serve more  
product and  
market  
segments**

**2007** →

**2006**

**Serve more  
product and  
market  
segments**

**2005**

**Penetrate tier 1  
OEMs and  
database  
segment**

**Expanded  
tier 1 base  
and large  
business**

**2004**

**Medium  
business,  
government,  
tier 1 OEMs**

**Start in system  
builder and  
high-  
performance  
computing**

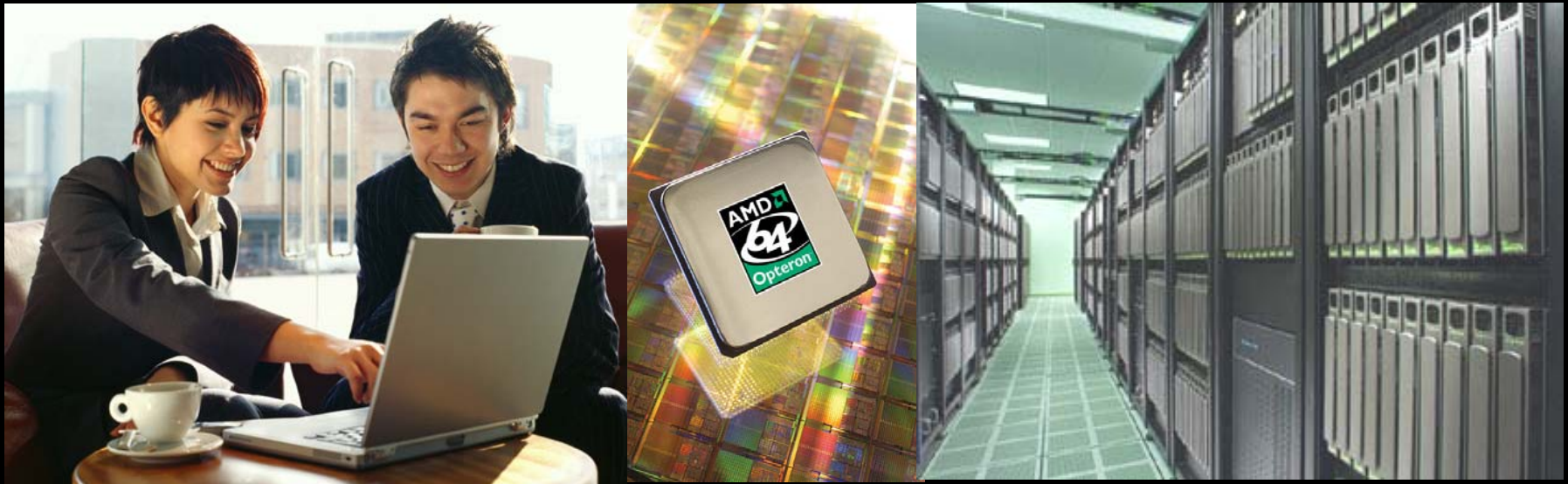
**2003**

**2002**

**Desktop, small  
business and  
system builders**

**Client**

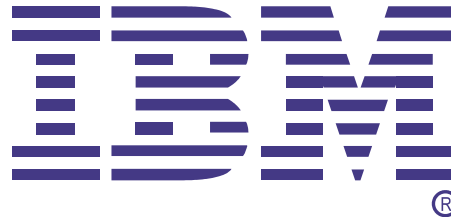
Establish **customer-centric leadership**  
by delivering technology solutions  
that **reduce complexity**,  
**increase the value** of our customers' and partners' offerings  
and **change the economics** in the commercial market





**i n v e n t**

- ProLiant DL145
- ProLiant DL585



- eServer 325
- IntelliStation A Pro workstation



- Sun Fire™ V20z
- 4P Sun Fire™ V40z
- 1P Sun Java™ Workstation W1100z
- 2P Sun Java™ Workstation W2100z





# AMD Commercial Strategy

## *Server/Workstation Product Strategy*



### **Leverage Direct Connect Architecture and add enterprise features**

Multi-core

Virtualization

Reliability Availability Scalability (RAS)

### **Broad product line**

Blades through large symmetric multi-processing (SMP)

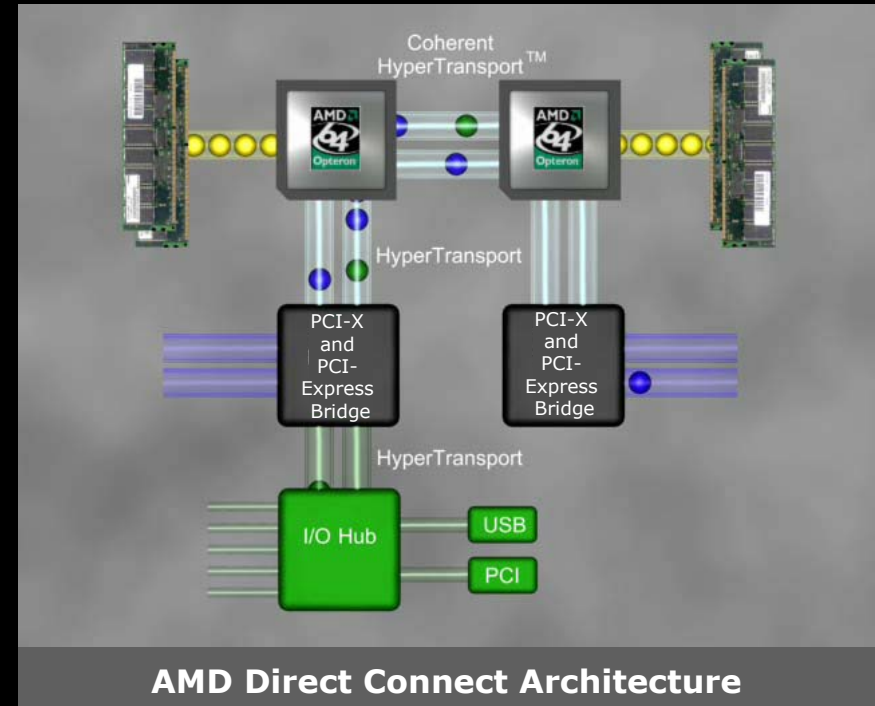
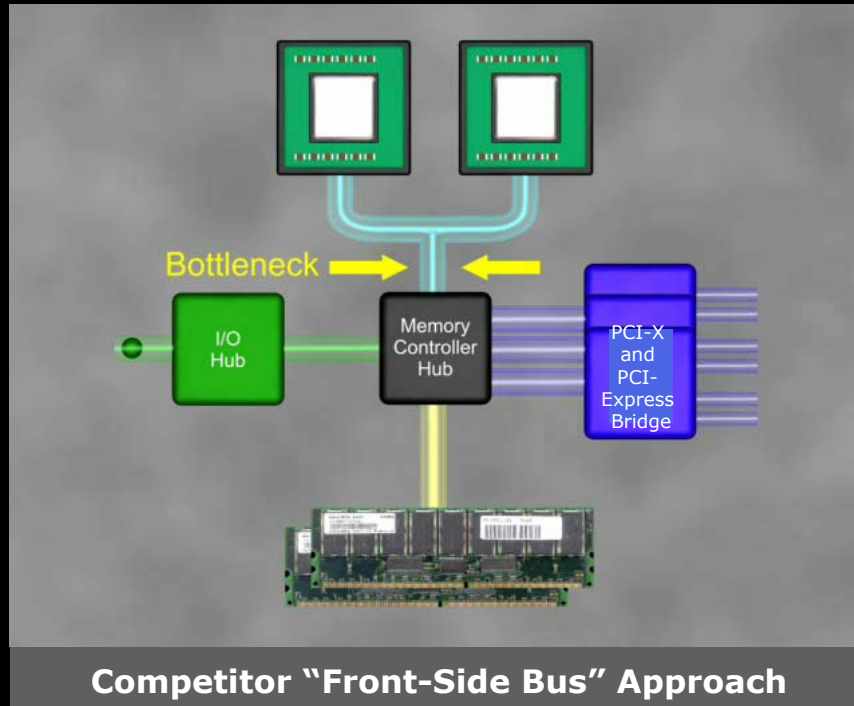
### **Lead in performance/per watt/per dollar**

### **Sell AMD Opteron™ processors into non-traditional server markets**

NAS, SAN, network appliances, Telco



# Superiority of the AMD Direct Connect Architecture



**Direct Connect Architecture helps eliminate the bottlenecks inherent in a front-side bus by directly connecting the processors, the memory controller and the I/O to the central processor unit to enable improved overall system performance and efficiency**

## We Promised it First

October 1999      AMD announces multi-core-enabled processor design at Fall Microprocessor Forum.

*"AMD plans to deploy multiple x86-64 processors on a single die."*

## We're Delivering it First

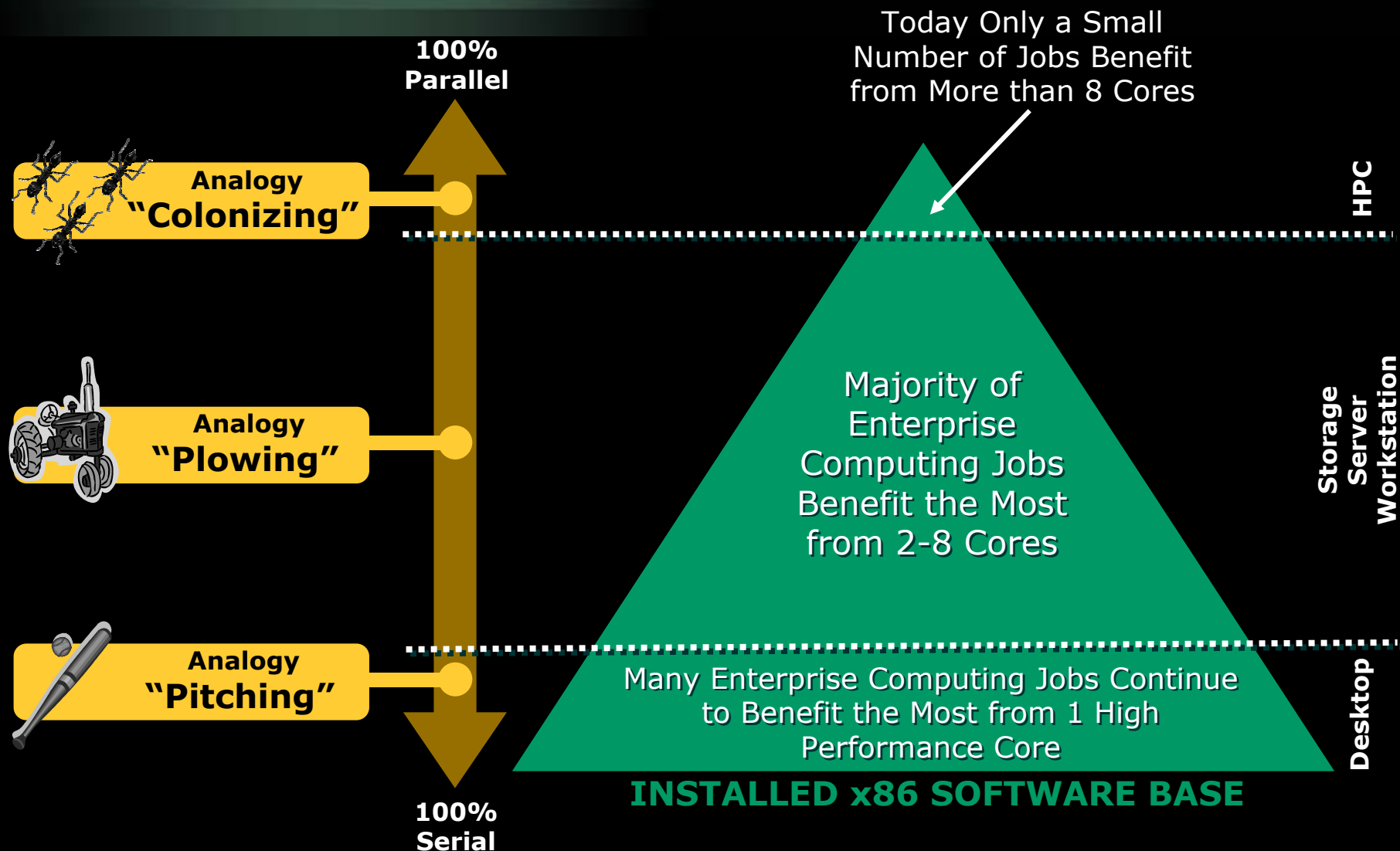
June 2004      AMD announces it completed dual-core AMD64 design

August 2004      AMD demonstrates industry's first x86, dual-core processor on a shipping platform

Mid 2005      AMD expects to be first to introduce dual-core processors for the one- to eight-socket server and workstation market

# Not All Software is Created Equal

## Remember Amdahl's Law



## 90nm Process

Approximately same die size as 130nm single-core AMD Opteron™ processor\*

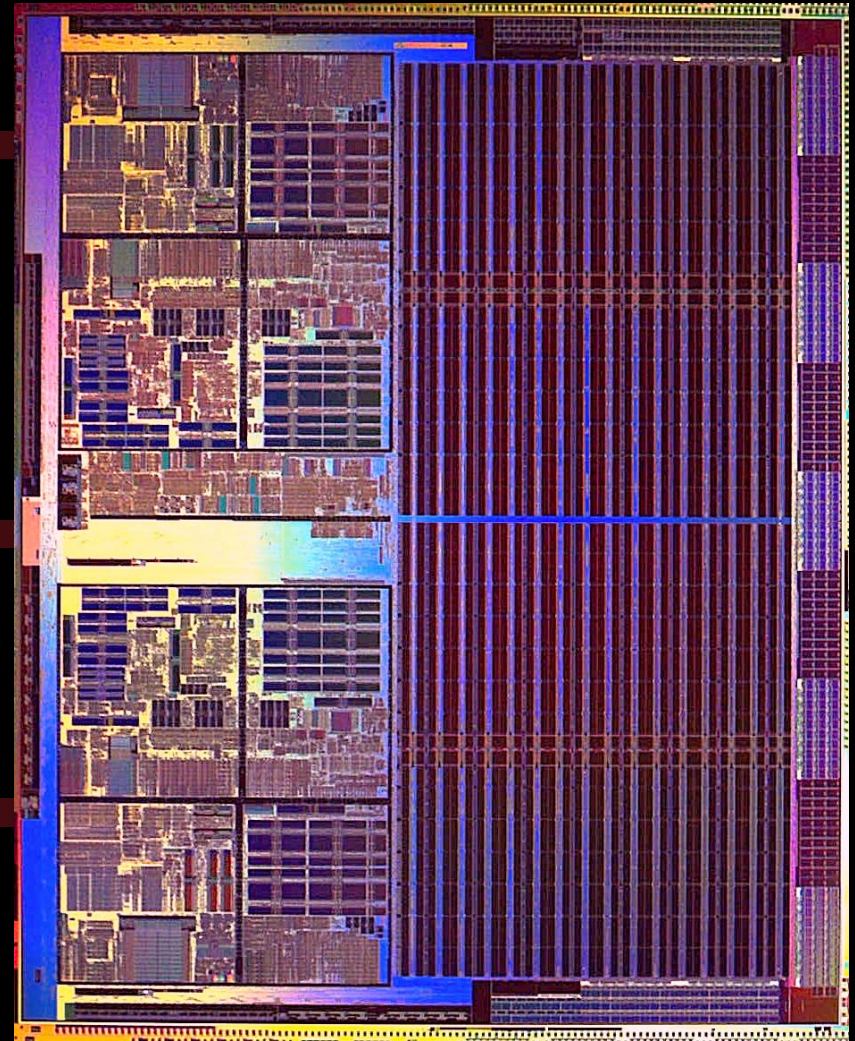
~205 million transistors\*

## 95 Watt Power Envelope

Fits into 90nm power infrastructure

## 940 Socket Compatible

All that's needed is a BIOS upgrade  
Compatible with all motherboards designed to our 90nm specification

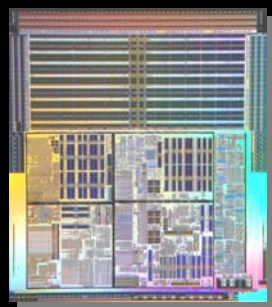


*\*Based on current revisions of the design*

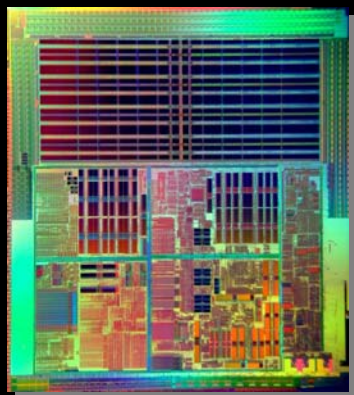
# 90nm Technology is on the Mark!



**90nm  
Technology  
84 mm<sup>2</sup>**



**130nm  
Technology  
145 mm<sup>2</sup>**



## Key enabler for:

- Low-power AMD64 processors
- As well as high-performance offerings

## Builds on 130nm SOI success:

- Industry-leading SOI performance
- Industry-leading manufacturing

## AMD's 90nm technology features:

- Industry-leading SOI transistors
  - ✓ High performance
  - ✓ Significant power reduction
  - ✓ Tuned for optimum product performance
- High-performance low-k interconnect

## High yield at initial production

- AMD's Automated Precision Manufacturing (APM) technology
- Disciplined technology transition strategy

## Revenue shipments in Q304



**AMD's Fab 36**  
(as planned)

- ✓ **November 2003 - Groundbreaking**
- ✓ **February 2004 - EU approval**
- ✓ **May 2004 - "Topping Off" ceremony**
- **December 2004 - Equipment move-in commences**
- **Mid-2005 - Process installation scheduled**
- **1H 2006 - Production shipments planned**

## More Cores

2, 4, 8

## New Memory Support

DDR2, DDR3, FBDIMM

## Faster Input/Output

HyperTransport™ 3 technology, PCI Express Gen 2

## Better Power Management

Split power planes allow CPU core voltage to be reduced, while NB services probes, memory requests

## Trusted Computing

Enhanced Virus Protection, Presidio





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