Press and Analyst Briefing

Intel® Xeon™ processor MP 3.0 GHz 4M iL3 cache

Hosted by Thomson Financial, NY

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Thomson Financial
Senior Vice President, Technology

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Intel Corporation
General Manager, Enterprise Marketing and Planning
Agenda

- What’s new today
  - Intel® Xeon™ processor MP 3GHz with 4M of L3 cache

- Thomson Financial
  - Success with Intel Xeon processor MP-based platforms

- Summary
Competitive Strategy: Beyond Processors

Intel Capital

Validation
25,00 Hours

Boards &
Server Systems

Software Tools
Developer Services

Early
Access
Program

Enterprise Competitiveness:
A Total Vertical Approach

Intel® Solutions
Services

Solutions Blueprints
432 Wins $1.98 B

Chipsets

Intel Inside
XEON

ITANIUM.2

Intel Inside

Intel Software
College

Vendor
Alliances

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Intel Platforms: Spanning the Enterprise

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Intel® Xeon™ Processor-Based Platform</th>
<th>Intel® Itanium® 2 Processor-Based Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance</td>
<td>Optimized for workgroup, workstation, web &amp; IA-32 apps</td>
<td>Optimized for largest enterprise, database &amp; technical computing workloads</td>
</tr>
<tr>
<td>RAS</td>
<td>Reliable data integrity</td>
<td>RISC / mainframe replacement</td>
</tr>
<tr>
<td>Physical Addressing</td>
<td>Up to 1 Terabyte of addressable memory</td>
<td>Up to 1 Petabyte (1000 Terabytes) of addressable memory</td>
</tr>
<tr>
<td>Platform</td>
<td>High performance &amp; balanced platform bandwidth</td>
<td>High bus bandwidths, scalability and platform longevity</td>
</tr>
</tbody>
</table>

Intel strategy: optimized architectures for server and workstation solutions

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Server Platform Summary: Intel® Xeon™ Processor MP
Introducing 3 GHz/4M, 2.7 GHz/2M, 2.2 GHz/2M

- Outstanding performance & price/perf for enterprise application tier
  - Up to 25% perf gain vs. Intel Xeon processor MP 2.8 GHz/2M¹
  - Improved price/performance with same platforms

- Ideal platform for application consolidations
  - Thousands of mid-tier apps for ERP, SCM, Biz Intelligence, & CRM
  - Greater choice of Operating systems vs. RISC
  - Solution breadth enables faster TTM

- Stable, Evolutionary platform
  - Compatible with today’s Intel Xeon processor MP-based platforms
  - Leading RAS capabilities on MP platforms
  - Available from leading OEMs and solution providers

Source: Intel Corporation (Sep, 2002). Comparisons based on Intel internal measurements w/pre-production hardware.
4) Intel® Xeon™ processors 2.0GHz with 2MB L3 cache in an Intel® SSH4-based server with 4GB of main memory, Microsoft® .NET Server 2003 Enterprise Edition, JRockit Juno 1447_20020717

Baseline configurations: Same as each above except with Intel® Xeon™ processor MP 1.6 GHz with 1M L3 Cache

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Value of Intel® Xeon™ processor MP investment protection

Intel® Xeon™ Processor MP 3.0 GHz/4M vs. 2.8 GHz/2M

<table>
<thead>
<tr>
<th>Workload</th>
<th>TPC-C*1</th>
<th>SAP R/3²</th>
<th>SPECjbb2000³</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLTP</td>
<td>1.15</td>
<td>1.23</td>
<td>1.25</td>
</tr>
<tr>
<td>ERP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># Processors</th>
<th>Memory Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four</td>
<td>Eight</td>
</tr>
<tr>
<td>32GB</td>
<td>16GB</td>
</tr>
<tr>
<td>tpmC*</td>
<td># SD Users</td>
</tr>
</tbody>
</table>

4P Intel® Xeon™ Processor MP TPC-C* Performance Over Time

<table>
<thead>
<tr>
<th>Workload</th>
<th>TPC-C*1</th>
<th>SAP R/3²</th>
<th>SPECjbb2000³</th>
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</thead>
<tbody>
<tr>
<td>OLTP</td>
<td>1.00</td>
<td>1.98</td>
<td>2.27</td>
</tr>
<tr>
<td>ERP</td>
<td></td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Java*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Significant platform performance gains over time
- Up to 25% gains over 2.8/2M
- Strong industry support & benchmark publications at launch

Intel® Xeon™ Processor MP Platform Performance Increased Over 2X In 2 Years

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit http://www.intel.com/performance/resources/limits.htm or call (U.S.) 1-800-628-8686 or 1-916-356-3104.

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Enterprise Modular Computing
Highlighting the New 4-way Compute Blade

- Foundation architecture for Utility/Grid/Autonomic computing
  - Strong end-user TCO benefits
  - Robust networking and storage ecosystem offerings

- Intel extending modular blade offerings with new building blocks
  - Intel® Server Compute Blade SBX44
  - Accommodates up to 4 Intel® Xeon™ processors MP

Intel driving blades as a key vehicle for delivering new IA platform capabilities
Replacing RISC & enabling server consolidation…
Across Vertical Markets and Geographies

*Other names and brands may be claimed as the property of others.
Why Thomson Chose Intel and Unisys

- Thomson Financial performed one of the largest migrations in industry history
  - Grew Thomson ONE Analytics from 500 to 55,000 users in months
  - Transformed static data to integrated workflow
  - Required flawless scalability and reliability

- Intel and Unisys met needs
  - From a business perspective, Intel delivered TCO & agility
  - Technically, we saw Intel as ready for the enterprise
  - Unisys showed sustainable ability to lead on high end Windows
  - Both demonstrated they could be effective business partners

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### Business Description

ABCD Company. The Group’s principal activities are the exploration, development, production and marketing of oil and gas. It operates in three segments: oil and gas operation, marketing and minerals. Oil and Gas segment finds and produces natural gas, crude oil, condensate and natural gas liquids. The Marketing segment is responsible for selling natural gas production as well as purchased volumes of third-party gas and oil. The Minerals segment finds and produces minerals in several coal, industrial minerals and rare (natural soda ash) mines. The Group’s major areas of operations are located in the United States, primarily in Texas, Louisiana, the mid-continent and Rocky Mountain regions, Alaska, Gulf of Mexico, Canada, Algeria, Guatemala, and other international areas. On 06-Dec-2002, the Group acquired Howell Corporation. Oil and Gas exploration and production accounted for 95% of 2002 revenues; Marketing and Trading, 4%; Minerals, 1% and other, nominal.

### Datastream Price (3M)

<table>
<thead>
<tr>
<th>Price Relative to S&amp;P 500 Composite</th>
<th>ABCD COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 31</td>
<td>40.89</td>
</tr>
<tr>
<td>Feb 15</td>
<td>42.09</td>
</tr>
<tr>
<td>Mar 21</td>
<td>44.29</td>
</tr>
<tr>
<td>Apr 4</td>
<td>46.39</td>
</tr>
</tbody>
</table>

View Pricing

### Growth and P/E

<table>
<thead>
<tr>
<th>Growth 2003</th>
<th>ABCD</th>
<th>41.73</th>
</tr>
</thead>
</table>

| P/E 2003 | ABCD | 14.32 |

View Research

### Most Recent Worldwide Fundamentals

<table>
<thead>
<tr>
<th>Sales (M$)</th>
<th>2002</th>
<th>3,063</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Income (M$)</td>
<td>2,228</td>
<td>1,979</td>
</tr>
<tr>
<td>Net Income (M$)</td>
<td>-176</td>
<td>608</td>
</tr>
<tr>
<td>Total Assets (M$)</td>
<td>14,771</td>
<td>18,246</td>
</tr>
<tr>
<td>Total Liabilities (M$)</td>
<td>10,466</td>
<td>11,276</td>
</tr>
<tr>
<td>EBITDA (M$)</td>
<td>-298</td>
<td>1,418</td>
</tr>
</tbody>
</table>

View Fundamentals

### Recent Research

- **last 1 day**: 145
- **last 1 week**: 123
- **last 1 month**: 810

View Research

### Recent Filings

- 12/21/02: 10-K
- 9/30/02: 10-Q

View Research

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How Thomson Used Intel Architecture

- “Scale up” approach for consolidation and simplicity

- Web/application tier has 12 servers each with 2 Intel® Xeon™ processors
  - Intel’s high clock speeds are a distinct advantage

- Data tier provides near real time response
  - Application is extremely demanding on the databases
  - Cluster of two ES7000 each with 16 Xeon processors MP
  - One ES7000 with 8 Intel Itanium® 2 processors for memory-intensive application querying 5 years worth of investment management research

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Benefits to Thomson

- **Results**
  - 100x in users with faster speed while adding features
  - 400% faster speed
  - 100% uptime

- **Plans**
  - T1A: Thomson Financial is planning to deploy the new Intel Xeon processors MP at 3GHz with 4M iL3 cache within 3 months – planning on 20% faster speed
  - Portfolio analysis and portfolio management
Summary

- Today, Intel launching new Intel® Xeon™ processor MP 3.0 GHz with 4M of iL3 cache
  - Up to 25+% performance increase
  - Common platform provides stability to IT

- Thomson Financial very successful with Intel Xeon processor MP-based platforms

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Back-up
Pricing/Availability

- Intel® Xeon™ processor MP SKUs available March 2, 2004
  - 3.0 GHz/4M $3,692*
  - 2.7 GHz/2M $1,980*
  - 2.2 GHz/2M $1,177*

*Pricing listed when purchased in quantities of 1,000
Thomson Financial
Intel® Architecture Deployment (background)

- Two clustered 16 way Intel® Xeon™ processor MP-based Unisys ES7000 platforms
  - Containing 6 months of historical data
- One 8-way Itanium 2-based Unisys ES7000 platform
  - Containing over 5 years of historical data
- Running Thomson ONE Analytics, an integrated research and analytical application that offers world class content for large investment community
- Microsoft SQL, Windows DataCenter 2000
Scalability Advantages of Intel® Xeon™ Processor MP with Sybase* Adaptive Server Enterprise* on Linux

- 50% greater transaction throughput on Intel® Xeon™ processor MP platform
- Sybase ASE on Linux on scales on IA
- The Xeon™ MP provides additional capacity and headroom

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1. The Financial Fusion simulated workload is a proprietary application created by Financial Fusion, Inc. for performance testing with database servers. This simulated workload is not commercially available.
2. Data is provided for informational purposes only. Data was derived using a simulated workload. Any difference in system hardware or software design or configuration may affect actual performance. Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel® products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing.

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IA-32 Server and Workstation Platform Roadmap ’04-’05

**MP**
- **2002-3**
  - Intel® Xeon™ Processor MP (1.6/1M, 2.0/2M, 2.8/2M)
  - Existing MP Platforms, Intro Q1’02
- **2004**
  - Intel® Xeon™ Processor MP (3.0 GHz; 4MB L3 Cache)
- **2005**
  - Potomac (Increased L3 Cache)
  - Tulsa (Dual Core)
  - Intel Twin Castle 4S and Enabled Chipsets Platforms

**DP**
- Intel® Xeon™ Processor (<3.2 GHz; 512k-1M Cache)
- Intel® E7501, Intel® E7505 chipsets
- 533 MHz Platforms, Intro Q4’02
- **2004**
  - Intel® Xeon™ Processor (3.20 GHz; 2M Cache)
- **2005**
  - Nocona (>3.60 GHz; 1M Cache)
  - Jayhawk (Increased Cache and Frequency)
  - Lindenhurst, Tumwater

**UP**
- Prescott (>3.60 GHz; 1M Cache)
- Tejas (Increased Cache)
- Existing Platforms
- **2005**
  - Alderwood, Copper River

IA-32
IA-32 with 64-bit extension technology
Platforms supporting 64-bit extension technology

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Products and schedules shown are presented for planning purposes only and subject to change without notice.
Performance System Configuration Details and Disclaimers


2. SAP R/3*: Eight Intel® Xeon™ processors MP 3.0GHz with 4MB L3 cache in an IBM xSeries 445 Model 8B70-42X, 8-way SMP with 16GB main memory, Microsoft Windows* Server 2003 Datacenter, DB2 UDB 8.1. For more information, see www.sap.com/benchmark

3. SPECjbb2000*: Four Intel® Xeon™ processor MP 3.0GHz with 4MB L3 cache in a Dell PowerEdge 6650, 4GB main memory, Microsoft* Windows* 2000 Advanced Server (SP3), BEA WebLogic® JRockit® 1.4.2.03 32-bit JVM
   • Baseline: Four Intel® Xeon™ processor MP 2.8GHz with 2MB L3 cache in a Dell PowerEdge 6650, 4GB main memory, Microsoft* Windows* 2000 Advanced Server (SP3), BEA WebLogic JRockit 32-bit JVM


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**Data is current as of 03/02/04. Previously published TPC results. Data obtained from publicly available information and is subject to change without notice. Contact the manufacturer for the most recent information. TPC-C, tmpC, $/tmpC, TPC-H, QphH, $/QphH, TPC-W, WIPS, and $/WIPS are trademarks of the Transaction Processing Performance Council. For more information, see: www.tpc.org.

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