Supermicro
Motherboard X7DA8

SPEClnt®2006 = 16.2
SPEClnt_base2006 = 15.5

CPU2006 license: 001176
Test date: Apr-2007
Test sponsor: Supermicro
Hardware Availability: May-2007
Tested by: Supermicro
Software Availability: Apr-2007

CPU Name: Intel Xeon X5355
CPU Characteristics: 2.66GHz, 1333 MHz Bus
CPU MHz: 2660
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1, 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 8 MB L1D on chip per chip, 4 MB shared / 2 cores
L3 Cache: None
Other Cache: None
Memory: 16 GB (8 X 2GB ECC PC2-5300, CL5, FBDIMM)
Disk Subsystem: 750GB IDE, 7200RPM
Other Hardware: None

Compiler: Intel C++ Compiler for IA32 version 9.1 Build no 20070322Z
Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel: No
File System: NTFS
System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: SmartHeap Library Version 8.0
### SPEC CINT2006 Result

**Supermicro Motherboard X7DA8**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Seconds</th>
<th>Ratio</th>
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<th>Ratio</th>
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<td>511</td>
<td>19.1</td>
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<td>463</td>
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<td>13.8</td>
<td>700</td>
<td>13.8</td>
<td>683</td>
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<td>19.4</td>
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</tbody>
</table>

**Results Table**

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

### General Notes

Tested systems can be used with SC816S-R700 case, To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required] Product description located as of [http://www.supermicro.com/products/motherboard/Xeon1333/5000X/X7DA8.cfm](http://www.supermicro.com/products/motherboard/Xeon1333/5000X/X7DA8.cfm)
The system bus runs at 1333 MHz

### Base Compiler Invocation

C benchmarks:  
  icl -Qvc7.1 -Qc99

C++ benchmarks:  
  icl -Qvc7.1

### Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32  
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

### Base Optimization Flags

C benchmarks:  
  -fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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SPEC CINT2006 Result

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Base Optimization Flags (Continued)

C++ benchmarks:
  -fast -Qcxx_features /F512000000 shlw32m.lib
  -link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:
  icl -Qvc7.1 -Qc99
C++ benchmarks:
  icl -Qvc7.1

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
  shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: Same as 400.perlbench
403.gcc: Same as 400.perlbench
429.mc: basepeak = yes
445.gobmk: Same as 400.perlbench
456.hmmer: Same as 400.perlbench
458.sjeng: Same as 400.perlbench

Continued on next page
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## Peak Optimization Flags (Continued)

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features  
/F5120000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxP -O2 -Qipo  
-Qprec-div -Qunroll4 -Ob2 -Qsfalign16 -Qcxx_features  
/F5120000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: Same as 471.omnetpp

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at [http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.html](http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.html)

You can also download the XML flags source by saving the following link:  

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For questions about this result, please contact the tester. For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.1.  
Originally published on 26 June 2007.