# SPEC® CINT2006 Result

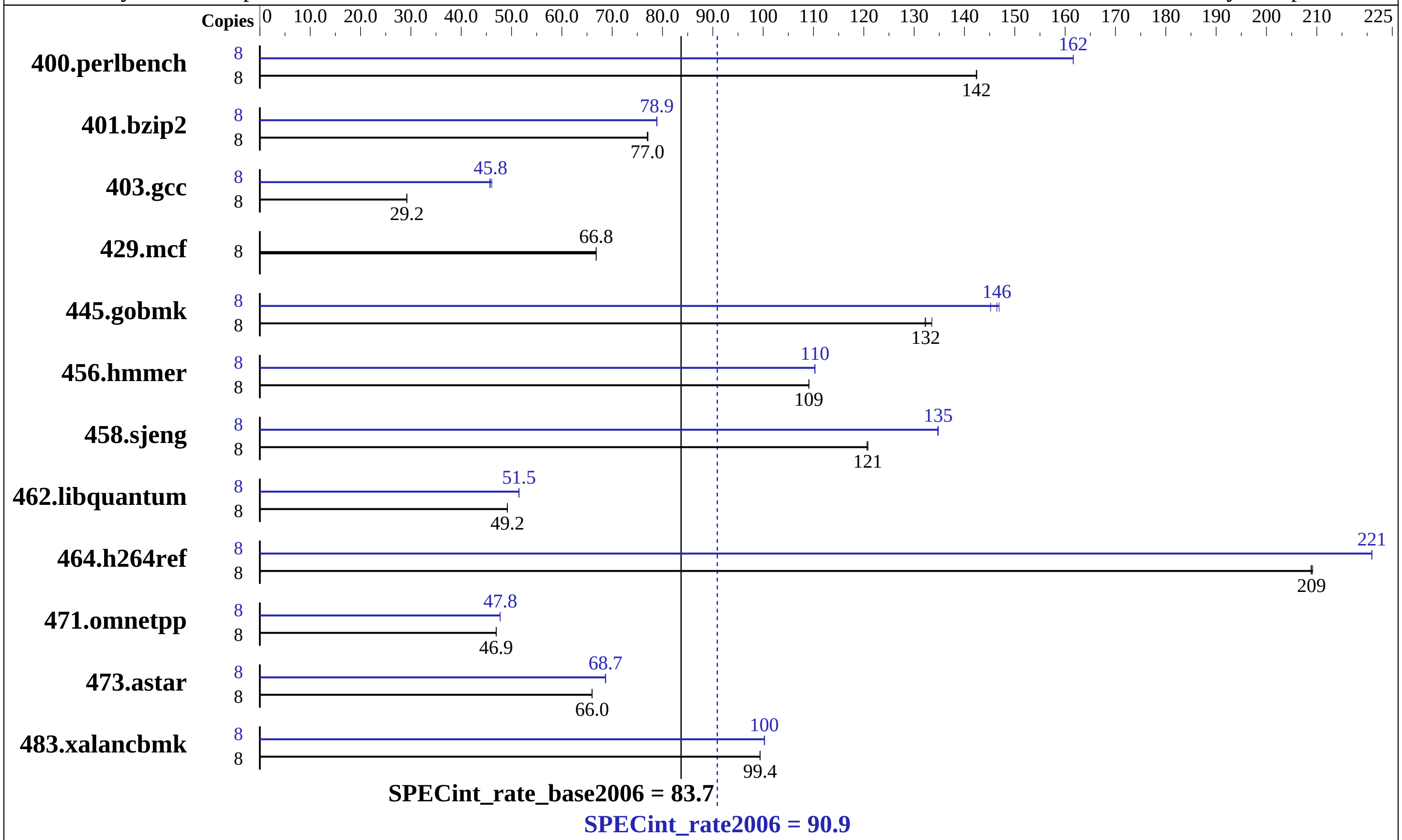


## Supermicro
## Motherboard X7DB8

SPECint®_rate2006 = 90.9

SPECint_rate_base2006 = 83.7

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




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5355 |
| CPU Characteristics: | 2.67GHz 1333MHz System Bus |
| CPU MHz: | 2667 |
| 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 I+D 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: | Seagate ST3750640AS 750GB SATA II, 7200RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise Edition W/ SP1 |
| Compiler: | Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 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: | None SmartHeap Library Version 8.0 from http://www.microquill.com/ |

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# Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 8 | 549 | 142 | 549 | 142 | **549** | **142** | 8 | **484** | **162** | 484 | 162 | 484 | 162 |
| 401.bzip2 | 8 | 1001 | 77.1 | 1003 | 77.0 | **1002** | **77.0** | 8 | 979 | 78.8 | **979** | **78.9** | 978 | 78.9 |
| 403.gcc | 8 | 2207 | 29.2 | 2203 | 29.2 | **2205** | **29.2** | 8 | **1406** | **45.8** | 1397 | 46.1 | 1410 | 45.7 |
| 429.mcf | 8 | **1092** | **66.8** | 1091 | 66.9 | 1092 | 66.8 | 8 | **1092** | **66.8** | 1091 | 66.9 | 1092 | 66.8 |
| 445.gobmk | 8 | 635 | 132 | **634** | **132** | 629 | 134 | 8 | **573** | **146** | 578 | 145 | 571 | 147 |
| 456.hmmer | 8 | 684 | 109 | **684** | **109** | 684 | 109 | 8 | 677 | 110 | 677 | 110 | **677** | **110** |
| 458.sjeng | 8 | **802** | **121** | 801 | 121 | 803 | 121 | 8 | **718** | **135** | 719 | 135 | 718 | 135 |
| 462.libquantum | 8 | 3370 | 49.2 | **3371** | **49.2** | 3371 | 49.2 | 8 | 3222 | 51.4 | 3217 | 51.5 | **3219** | **51.5** |
| 464.h264ref | 8 | **847** | **209** | 848 | 209 | 846 | 209 | 8 | 801 | 221 | 801 | 221 | **801** | **221** |
| 471.omnetpp | 8 | 1065 | 47.0 | 1065 | 46.9 | **1065** | **46.9** | 8 | **1047** | **47.8** | 1047 | 47.8 | 1047 | 47.8 |
| 473.astar | 8 | **851** | **66.0** | 851 | 66.0 | 851 | 66.0 | 8 | 817 | 68.7 | 818 | 68.6 | **818** | **68.7** |
| 483.xalancbmk | 8 | 555 | 99.4 | 555 | 99.4 | **555** | **99.4** | 8 | 550 | 100 | 551 | 100 | **551** | **100** |

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 CSE-825S2-R700LPV 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/Xeon1333/5000P/X7DB8.cfm
The system bus runs at 1333 MHz
submit was used to bind processes to cores
```

# 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`

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## Base Optimization Flags

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

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 -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

403.gcc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 -link /FORCE:MULTIPLE`

429.mcf: `basepeak = yes`

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## Peak Optimization Flags (Continued)

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo -Qprec_div- -Qansi-alias /F512000000 -link /FORCE:MULTIPLE

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

## 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-ic10-ia32-intel64-linux-flags.20090714.18.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.18.xml



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

Tested with SPEC CPU2006 v1.0.
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