# SPEC® CFP2006 Result

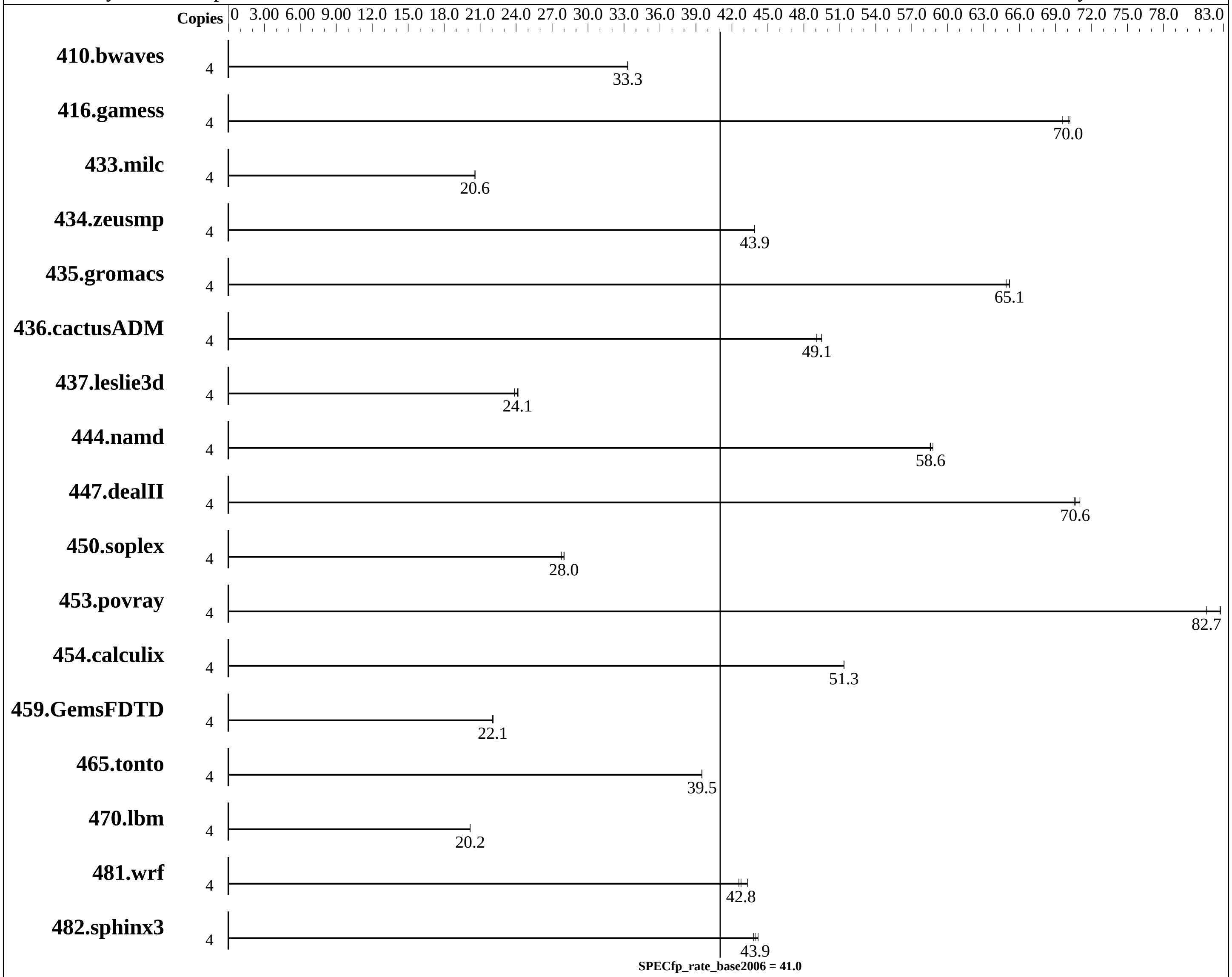


## Supermicro Motherboard X7DBR-8

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 41.0

| | | | |
|---|---|---|---|
| **CPU2006 license:** | 001176 | **Test date:** | Oct-2006 |
| **Test sponsor:** | Supermicro | **Hardware Availability:** | May-2006 |
| **Tested by:** | Supermicro | **Software Availability:** | Oct-2006 |




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 5160 |
| CPU Characteristics: | 3.0GHz 1333 System Bus |
| CPU MHz: | 3000 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip |
| CPU(s) orderable: | 1, 2 chips |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 4 MB I+D on chip per chip |

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### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise Edition W/ SP1 |
| Compiler: | Intel C++ Compiler for IA32 version 9.1<br>Build no 20060816<br>Microsoft Visual Studio .Net 2003 (for libraries)<br>SmartHeap Library Version 7.4 |
| Auto Parallel: | No |
| File System: | NTFS |
| System State: | Default |
| Base Pointers: | 32-bit |

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 X 2GB ECC, CL5, 667MHz, FBDIMM)
Disk Subsystem: 160GB IDE, 7200RPM
Other Hardware: None

Peak Pointers: Not Applicable
Other Software: None

## Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves | 4 | 1632 | 33.3 | 1632 | 33.3 | **1632** | **33.3** | | | | | | | |
| 416.gamess | 4 | **1118** | **70.0** | 1116 | 70.2 | 1126 | 69.6 | | | | | | | |
| 433.milc | 4 | **1785** | **20.6** | 1784 | 20.6 | 1786 | 20.6 | | | | | | | |
| 434.zeusmp | 4 | 829 | 43.9 | **829** | **43.9** | 829 | 43.9 | | | | | | | |
| 435.gromacs | 4 | 438 | 65.1 | **438** | **65.1** | 440 | 64.9 | | | | | | | |
| 436.cactusADM | 4 | 966 | 49.5 | 974 | 49.1 | **974** | **49.1** | | | | | | | |
| 437.leslie3d | 4 | 1575 | 23.9 | 1556 | 24.2 | **1559** | **24.1** | | | | | | | |
| 444.namd | 4 | 546 | 58.8 | **548** | **58.6** | 548 | 58.5 | | | | | | | |
| 447.dealII | 4 | **648** | **70.6** | 644 | 71.0 | 649 | 70.6 | | | | | | | |
| 450.soplex | 4 | 1191 | 28.0 | **1192** | **28.0** | 1200 | 27.8 | | | | | | | |
| 453.povray | 4 | **257** | **82.7** | 261 | 81.6 | 257 | 82.8 | | | | | | | |
| 454.calculix | 4 | 643 | 51.3 | **643** | **51.3** | 643 | 51.3 | | | | | | | |
| 459.GemsFDTD | 4 | 1921 | 22.1 | 1928 | 22.0 | **1925** | **22.1** | | | | | | | |
| 465.tonto | 4 | 997 | 39.5 | 996 | 39.5 | **996** | **39.5** | | | | | | | |
| 470.lbm | 4 | **2725** | **20.2** | 2725 | 20.2 | 2725 | 20.2 | | | | | | | |
| 481.wrf | 4 | **1045** | **42.8** | 1032 | 43.3 | 1049 | 42.6 | | | | | | | |
| 482.sphinx3 | 4 | 1764 | 44.2 | **1774** | **43.9** | 1780 | 43.8 | | | | | | | |

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/Xeon1333/5000P/X7DBR-8.cfm
The system bus runs at 1333 MHz
```

## Base Compiler Invocation

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

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

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# Base Compiler Invocation (Continued)

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icl -Qvc7.1 -Qc99 ifort`

# Base Portability Flags

436.cactusADM: `-Qlowercase /assume:underscore`
444.namd: `-TP`
447.dealII: `-DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T`
453.povray: `-DSPEC_CPU_WINDOWS_ICL`
454.calculix: `-DSPEC_CPU_NOZMODIFIER -Qlowercase`
481.wrf: `-DSPEC_CPU_WINDOWS_ICL`

# Base Optimization Flags

C benchmarks:
`-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

C++ benchmarks:
`-fast -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

Fortran benchmarks:
`-fast /F950000000 -link /FORCE:MULTIPLE`

Benchmarks using both Fortran and C:
`-fast /F950000000 -link /FORCE:MULTIPLE`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.03.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.03.xml

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

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