



SPEC® CFP2006 Result

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**Supermicro
Motherboard X7DB3**

**SPECfp®_rate2006 = 25.1
SPECfp_rate_base2006 = 24.7**

CPU2006 license: 001176

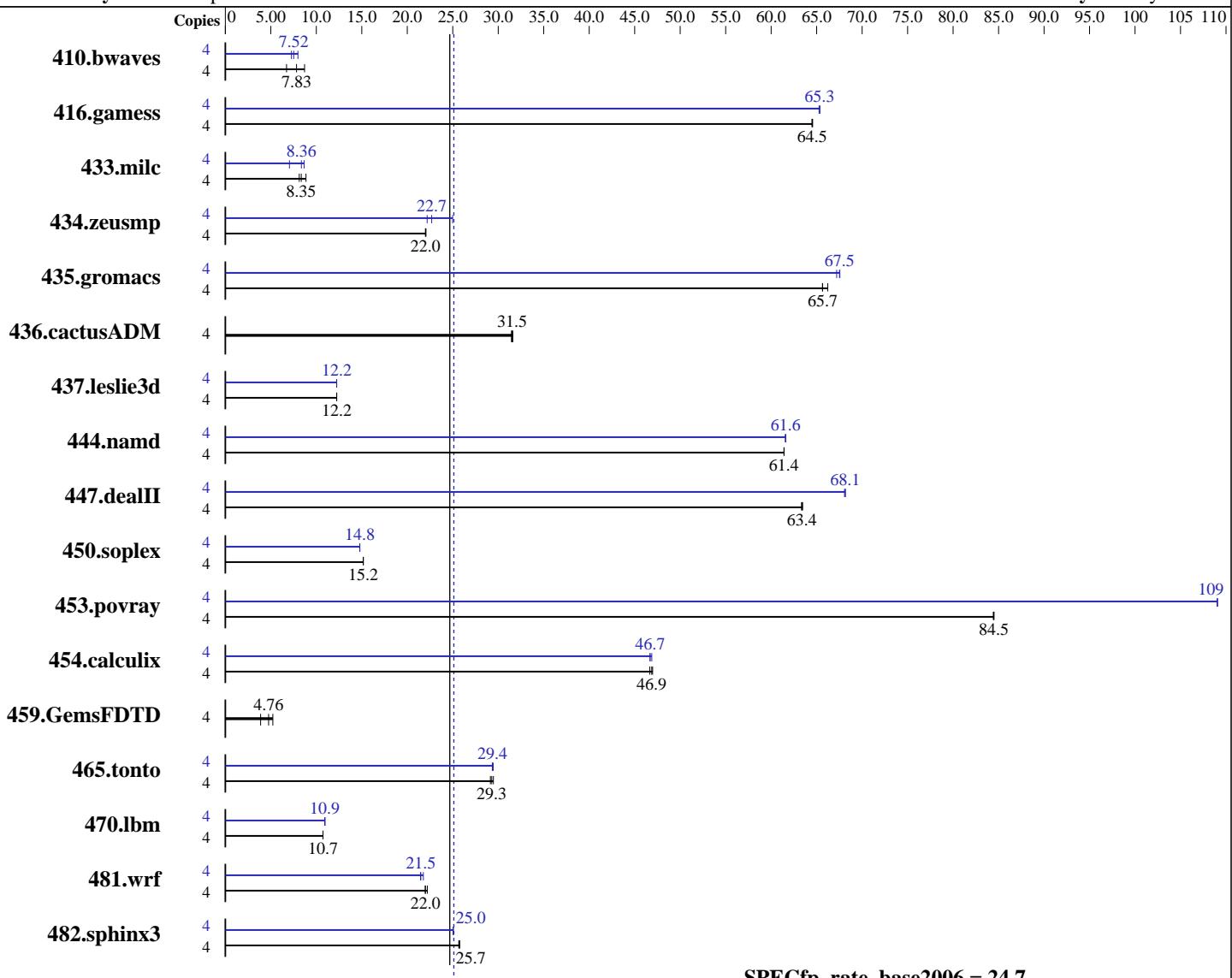
Test date: Jul-2007

Test sponsor: Supermicro

Hardware Availability: May-2007

Tested by: Supermicro

Software Availability: May-2007



SPECfp_rate_base2006 = 24.7

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Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 3.0GHz 1333MHz 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

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
 Intel Fortran Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_FC_P_10.0.025
 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2 X 1GB ECC PC2-4200 FBDIMM)
Disk Subsystem: 1 X WD1600JB IDE 7200 RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: SmartHeap Library Version 8.0 from
<http://www.microquill.com/>

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	6242	8.71	8080	6.73	6945	7.83	4	7481	7.27	6812	7.98	7230	7.52
416.gamess	4	1213	64.6	1214	64.5	1215	64.5	4	1200	65.3	1198	65.4	1199	65.3
433.milc	4	4400	8.35	4142	8.87	4520	8.12	4	5210	7.05	4393	8.36	4239	8.66
434.zeusmp	4	1650	22.1	1653	22.0	1655	22.0	4	1457	25.0	1605	22.7	1641	22.2
435.gromacs	4	435	65.7	435	65.6	431	66.2	4	423	67.5	425	67.2	423	67.6
436.cactusADM	4	1513	31.6	1520	31.4	1516	31.5	4	1513	31.6	1520	31.4	1516	31.5
437.leslie3d	4	3072	12.2	3071	12.2	3071	12.2	4	3072	12.2	3071	12.2	3072	12.2
444.namd	4	522	61.4	522	61.4	522	61.4	4	521	61.6	521	61.6	521	61.6
447.dealII	4	721	63.5	722	63.3	722	63.4	4	672	68.1	672	68.1	671	68.2
450.soplex	4	2199	15.2	2200	15.2	2202	15.2	4	2257	14.8	2257	14.8	2256	14.8
453.povray	4	252	84.5	252	84.5	252	84.4	4	195	109	195	109	195	109
454.calculix	4	707	46.7	703	47.0	704	46.9	4	707	46.7	704	46.9	707	46.7
459.GemsFDTD	4	10944	3.88	8922	4.76	8126	5.22	4	10944	3.88	8922	4.76	8126	5.22
465.tonto	4	1344	29.3	1336	29.5	1351	29.1	4	1340	29.4	1337	29.4	1341	29.3
470.lbm	4	5119	10.7	5119	10.7	5121	10.7	4	5022	10.9	5023	10.9	5025	10.9
481.wrf	4	2033	22.0	2012	22.2	2031	22.0	4	2079	21.5	2052	21.8	2082	21.5
482.sphinx3	4	3031	25.7	3026	25.8	3038	25.7	4	3112	25.0	3114	25.0	3111	25.1

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-825TQ-R700LPV case,
Product description located as of
<http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DB3.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

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Base Compiler Invocation (Continued)

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

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 /F9500000000 shlw32m.lib` `-link /FORCE:MULTIPLE`
C++ benchmarks:
 `-fast -Qcxx_features /F9500000000 shlw32m.lib`
 `-link /FORCE:MULTIPLE`
Fortran benchmarks:
 `-fast /F9500000000`
Benchmarks using both Fortran and C:
 `-fast /F9500000000`

Peak Compiler Invocation

C benchmarks:
 `icl -Qvc7.1 -Qc99`
C++ benchmarks:
 `icl -Qvc7.1`
Fortran benchmarks:
 `ifort`

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May-2007

Software Availability: May-2007

For more information about the study, please contact Dr. John Smith at (555) 123-4567 or email him at john.smith@researchinstitute.org.

Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:

```
icl -Qvc7.1 -Qc99 ifort
```

Peak 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
```

Peak Optimization Flags

C benchmarks:

```
433.milc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12 -Oa  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE
```

```
470.lbm: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12  
        -Qscalar-rep- -Qprefetch /F9500000000 shlw32m.lib  
                -link /FORCE:MULTIPLE
```

```
482.sphinx3: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12  
/F9500000000 shlw32m.lib -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
444.namd: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa  
          -Qcxx_features /F9500000000 shlw32m.lib  
          -link /FORCE:MULTIPLE
```

```
447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch  
          -Qcxx_features /F950000000 shlw32m.lib  
          -link /FORCE:MULTIPLE
```

```
450.soplex: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features  
/F9500000000 shlw32m.lib -link /FORCE:MULTIPLE
```

```
453.povray: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias  
          -Qcxx_features /F9500000000 shlw32m.lib  
          -link /FORCE:MULTIPLE
```

Fortran benchmarks

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Peak Optimization Flags (Continued)

410.bwaves: -fast /F950000000

416.gamess: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12 -Ob0
-Qansi-alias -Qscalar-rep- /F950000000

434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qprec_div-
-Qunroll10 -Qscalar-rep- /F950000000

437.leslie3d: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000

459.GemsFDTD: basepeak = yes

465.tonto: Same as 437.leslie3d

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
/F950000000

436.cactusADM: basepeak = yes

454.calculix: -fast /F950000000

481.wrf: Same as 454.calculix

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>

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

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