



SPEC® CFP2006 Result

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Supermicro Motherboard X7DBT-INF

SPECfp®_rate2006 = 67.3
SPECfp_rate_base2006 = 62.3

CPU2006 license: 001176

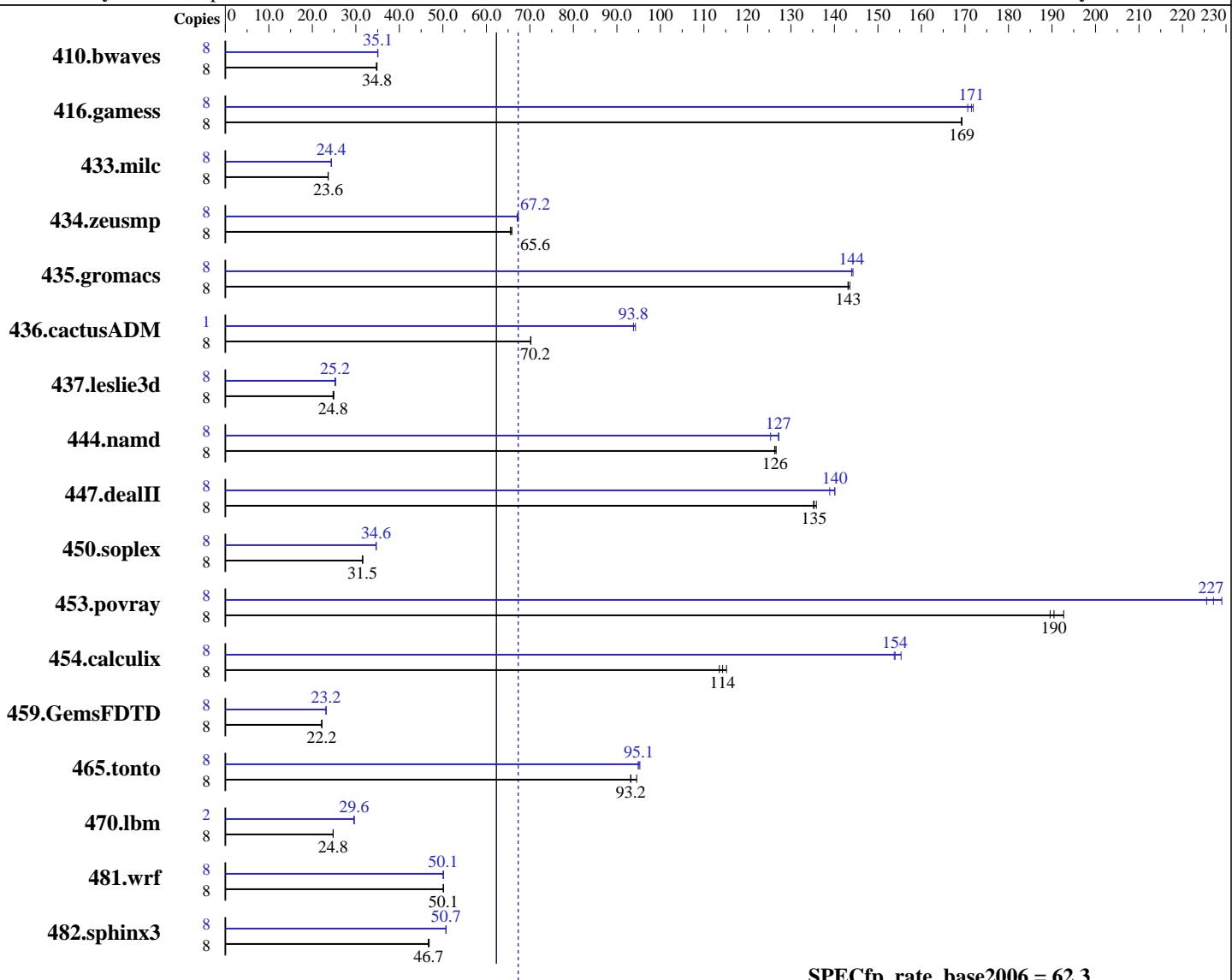
Test date: Nov-2007

Test sponsor: Supermicro

Hardware Availability: Nov-2007

Tested by: Supermicro

Software Availability: Nov-2007



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Hardware

CPU Name: Intel Xeon X5365
CPU Characteristics: Quad Core, 3.00GHz
CPU MHz: 3000
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

Software

Operating System: 64-Bit Suse Linux Enterprise Server 10 w/ SP1
Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725
Auto Parallel: Yes
File System: ReiserFS
System State: Multi-user, run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 X 2GB ECC PC2-5300, CL5, FBDIMM)
Disk Subsystem: Western Digital WD1600YS-01SHB1 160GB SATA II, 7200RPM
Other Hardware: None

Other Software: None

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3121	34.8	3119	34.9	3133	34.7	8	3101	35.1	3101	35.1	3106	35.0		
416.gamess	8	925	169	926	169	926	169	8	918	171	911	172	913	171		
433.milc	8	3106	23.6	3106	23.6	3111	23.6	8	3019	24.3	3011	24.4	3012	24.4		
434.zeusmp	8	1112	65.5	1110	65.6	1105	65.9	8	1081	67.4	1083	67.2	1085	67.1		
435.gromacs	8	399	143	398	144	399	143	8	396	144	397	144	397	144		
436.cactusADM	8	1361	70.2	1363	70.2	1362	70.2	1	127	94.3	127	93.8	127	93.8		
437.leslie3d	8	3013	25.0	3037	24.8	3033	24.8	8	2986	25.2	2983	25.2	2965	25.4		
444.namd	8	507	127	508	126	508	126	8	512	125	504	127	505	127		
447.dealII	8	676	135	677	135	674	136	8	653	140	659	139	653	140		
450.soplex	8	2113	31.6	2116	31.5	2115	31.5	8	1926	34.6	1922	34.7	1927	34.6		
453.povray	8	224	190	221	193	223	190	8	187	227	189	226	186	229		
454.calculix	8	581	114	577	114	573	115	8	425	155	429	154	429	154		
459.GemsFDTD	8	3831	22.2	3833	22.1	3824	22.2	8	3667	23.1	3665	23.2	3665	23.2		
465.tonto	8	845	93.2	833	94.5	845	93.2	8	826	95.3	828	95.1	830	94.9		
470.lbm	8	4435	24.8	4434	24.8	4436	24.8	2	929	29.6	928	29.6	928	29.6		
481.wrf	8	1782	50.1	1782	50.1	1784	50.1	8	1784	50.1	1784	50.1	1783	50.1		
482.sphinx3	8	3328	46.8	3343	46.6	3336	46.7	8	3072	50.8	3076	50.7	3073	50.7		

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 SC-808T-980 case,
To ensure system stability, a 550W (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/X7DBT-INF.cfm>
The system bus runs at 1333 MHz
BIOS Setting: Default
The taskset command was used with submit to bind benchmark copies to processors.
Except for 436.cactusADM peak runs which did not use submit.



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Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icc ifort`

Base Portability Flags

```
410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
  433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
  444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
  465.tonto: -DSPEC_CPU_LP64
  470.lbm: -DSPEC_CPU_LP64
  481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64
```

Base Optimization Flags

C benchmarks:
`-fast`

C++ benchmarks:
`-fast`

Fortran benchmarks:
`-fast`

Benchmarks using both Fortran and C:
`-fast`



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Peak Compiler Invocation

C benchmarks (except as noted below):

```
/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/bin/icc  
-L/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/lib  
-I/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/include
```

433.milc: icc

C++ benchmarks (except as noted below):

```
icpc
```

```
450.soplex: /home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/bin/icpc  
-L/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/lib  
-I/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/include
```

Fortran benchmarks (except as noted below):

```
ifort
```

```
437.leslie3d: /home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/bin/ifort  
-L/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/lib  
-I/home/cmpllr/usr3/alrahate/compilers/icl0.1mainline/20070725/Linux32/include
```

Benchmarks using both Fortran and C:

```
icc ifort
```

Peak Portability Flags

```
410.bwaves: -DSPEC_CPU_LP64  
416.gamess: -DSPEC_CPU_LP64  
    433.milc: -DSPEC_CPU_LP64  
434.zeusmp: -DSPEC_CPU_LP64  
435.gromacs: -DSPEC_CPU_LP64 -nofor_main  
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main  
    444.namd: -DSPEC_CPU_LP64  
    447.dealII: -DSPEC_CPU_LP64  
453.povray: -DSPEC_CPU_LP64  
454.calculix: -DSPEC_CPU_LP64 -nofor_main  
459.GemsFDTD: -DSPEC_CPU_LP64  
    465.tonto: -DSPEC_CPU_LP64  
    481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias  
        -auto-ilp32
```

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Peak Optimization Flags (Continued)

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-scalar-rep -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll12

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32



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The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.22.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.22.xml>

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For other inquiries, please contact webmaster@spec.org.

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