



SPEC® CFP2006 Result

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Supermicro Motherboard X7DB8

SPECfp®_rate2006 = 49.1

SPECfp_rate_base2006 = 56.2

CPU2006 license: 001176

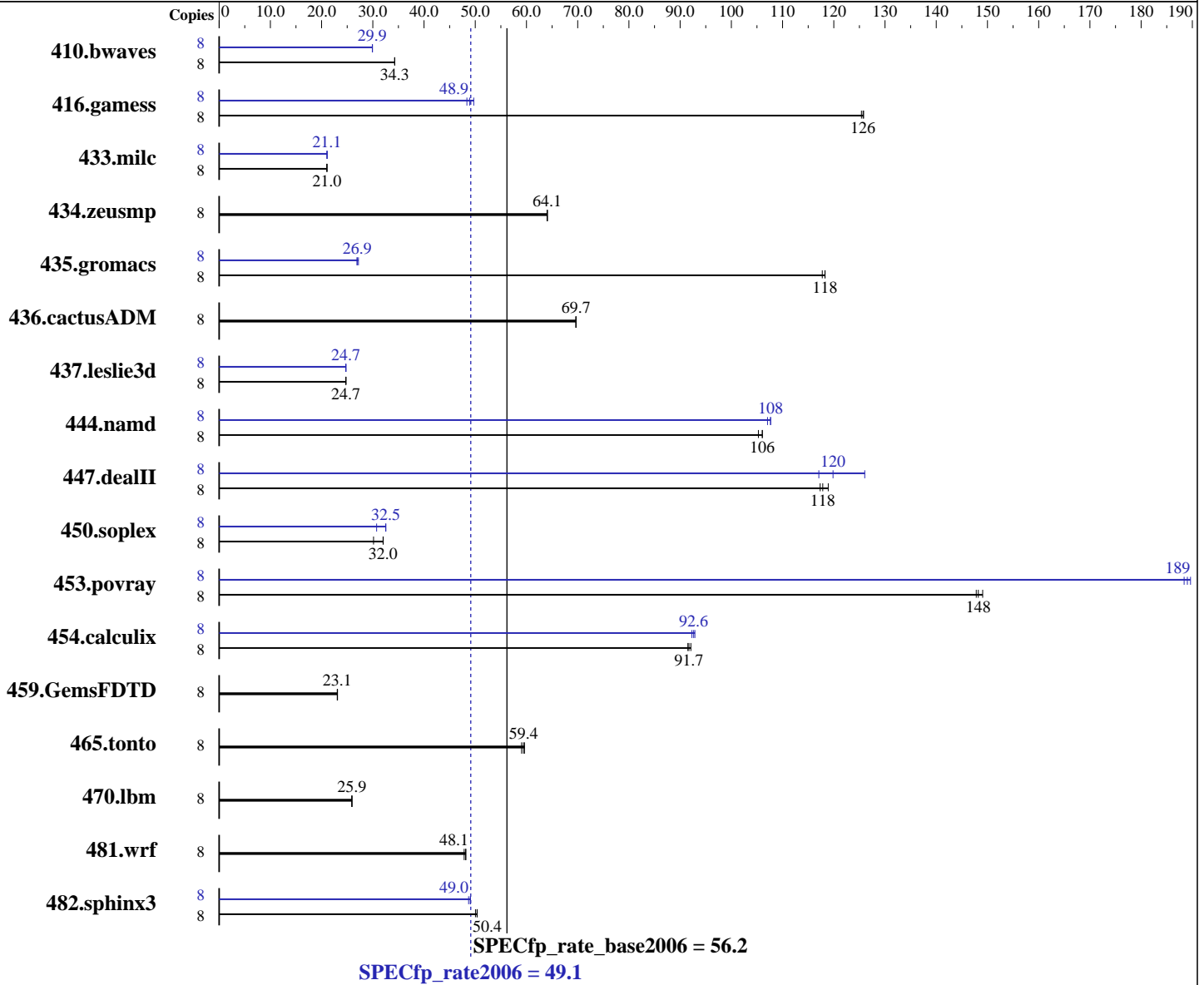
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Apr-2007

Hardware Availability: May-2006

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333MHz system 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 I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System: Windows Server 2003 Enterprise Edition W/ SP1
 Compiler: Intel C++ Compiler for IA32 version 9.1
 Build no 20070322Z
 Intel Fortran Compiler for IA32 version 9.1
 Build no 20070322Z
 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 X 2GB ECC, CL5, FBDIMM)
Disk Subsystem: 1 X 750GB IDE, 7200RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: SmartHeap Library Version 8.0

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3173	34.3	<u>3171</u>	<u>34.3</u>	3171	34.3	8	3635	29.9	3631	29.9	<u>3635</u>	<u>29.9</u>
416.gamess	8	1245	126	1249	125	<u>1246</u>	<u>126</u>	8	3238	48.4	<u>3204</u>	<u>48.9</u>	3151	49.7
433.milc	8	3489	21.0	3491	21.0	<u>3490</u>	<u>21.0</u>	8	3485	21.1	<u>3486</u>	<u>21.1</u>	3488	21.1
434.zeusmp	8	1136	64.1	1137	64.0	<u>1136</u>	<u>64.1</u>	8	1136	64.1	1137	64.0	<u>1136</u>	<u>64.1</u>
435.gromacs	8	485	118	483	118	<u>483</u>	<u>118</u>	8	2100	27.2	2122	26.9	<u>2120</u>	<u>26.9</u>
436.cactusADM	8	1372	69.7	<u>1372</u>	<u>69.7</u>	1373	69.6	8	1372	69.7	<u>1372</u>	<u>69.7</u>	1373	69.6
437.leslie3d	8	3039	24.7	3040	24.7	<u>3039</u>	<u>24.7</u>	8	3036	24.8	<u>3040</u>	<u>24.7</u>	3042	24.7
444.namd	8	609	105	605	106	<u>605</u>	<u>106</u>	8	599	107	<u>596</u>	<u>108</u>	596	108
447.dealII	8	780	117	<u>777</u>	<u>118</u>	770	119	8	726	126	<u>764</u>	<u>120</u>	782	117
450.soplex	8	2213	30.1	<u>2085</u>	<u>32.0</u>	2082	32.0	8	2170	30.7	2050	32.5	<u>2051</u>	<u>32.5</u>
453.povray	8	286	149	<u>287</u>	<u>148</u>	288	148	8	224	190	226	188	<u>225</u>	<u>189</u>
454.calculix	8	721	91.5	717	92.1	<u>720</u>	<u>91.7</u>	8	715	92.3	<u>712</u>	<u>92.6</u>	711	92.9
459.GemsFDTD	8	3673	23.1	3679	23.1	<u>3679</u>	<u>23.1</u>	8	3673	23.1	3679	23.1	<u>3679</u>	<u>23.1</u>
465.tonto	8	<u>1325</u>	<u>59.4</u>	1333	59.0	1320	59.6	8	<u>1325</u>	<u>59.4</u>	1333	59.0	1320	59.6
470.lbm	8	4243	25.9	<u>4241</u>	<u>25.9</u>	4240	25.9	8	4243	25.9	<u>4241</u>	<u>25.9</u>	4240	25.9
481.wrf	8	1868	47.8	<u>1857</u>	<u>48.1</u>	1855	48.2	8	1868	47.8	<u>1857</u>	<u>48.1</u>	1855	48.2
482.sphinx3	8	3116	50.0	<u>3097</u>	<u>50.4</u>	3095	50.4	8	3201	48.7	3177	49.1	<u>3180</u>	<u>49.0</u>

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

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

Peak Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Fortran benchmarks:
ifort

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



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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 /F950000000
shlw32m.lib -link /FORCE:MULTIPLE

470.lbm: basepeak = yes

482.sphinx3: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

C++ benchmarks:

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

Fortran benchmarks:

410.bwaves: -QxW -Qparallel -Qipo -O3 -Qprec-div- /F950000000
libguide.lib libguide40.lib -link /FORCE:MULTIPLE

416.gamess: Same as 410.bwaves

434.zeusmp: basepeak = yes

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

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: -QxW -Qparallel -Qipo -O3 -Qprec-div- /F950000000
shlw32m.lib libguide.lib libguide40.lib
-link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

436.cactusADM: basepeak = yes

454.calculix: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

481.wrf: basepeak = yes

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>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.xml>

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