



SPEC® CFP2006 Result

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Supermicro Motherboard PDSM4+

SPECfp®_rate2006 = 17.9

SPECfp_rate_base2006 = 17.3

CPU2006 license: 001176

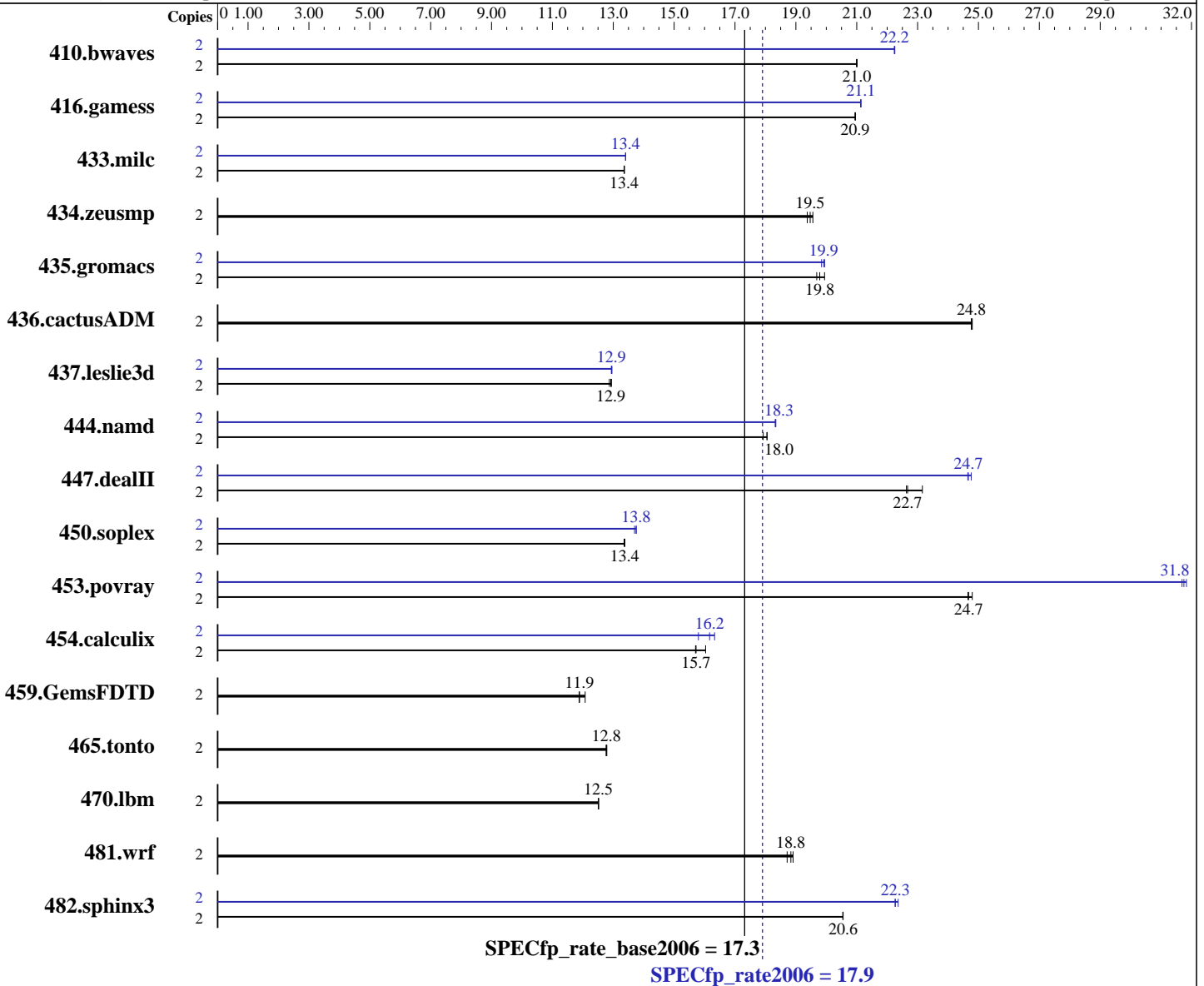
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Apr-2007

Hardware Availability: Apr-2007

Software Availability: Apr-2007



Hardware

CPU Name: Intel Core 2 Duo E4300
 CPU Characteristics: 1.8GHz, 800MHz bus
 CPU MHz: 1800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip

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Software

Operating System: Windows XP Professional w/ SP2
 Compiler: Intel C++ Compiler for IA32 version 9.1
 Build no 20070322Z
 Intel Fortran Compiler for IA32 version 9.1
 Build no 20070322Z
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit

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L3 Cache: None
Other Cache: None
Memory: 2 GB (4 X 512MB, DDR2 667MHz, CL5, ECC)
Disk Subsystem: WD2500YS-01SHB1 250GB SATA II, 7200RPM
Other Hardware: None

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	2	1295	21.0	1294	21.0	<u>1294</u>	<u>21.0</u>	2	<u>1222</u>	<u>22.2</u>	1221	22.3	1222	22.2		
416.gamess	2	1870	20.9	1868	21.0	<u>1869</u>	<u>20.9</u>	2	1852	21.1	<u>1853</u>	<u>21.1</u>	1854	21.1		
433.milc	2	1375	13.4	1374	13.4	<u>1374</u>	<u>13.4</u>	2	<u>1370</u>	<u>13.4</u>	1369	13.4	1370	13.4		
434.zeusmp	2	931	19.6	939	19.4	<u>935</u>	<u>19.5</u>	2	931	19.6	939	19.4	<u>935</u>	<u>19.5</u>		
435.gromacs	2	725	19.7	716	19.9	<u>722</u>	<u>19.8</u>	2	720	19.8	<u>717</u>	<u>19.9</u>	716	19.9		
436.cactusADM	2	964	24.8	<u>965</u>	<u>24.8</u>	965	24.8	2	964	24.8	<u>965</u>	<u>24.8</u>	965	24.8		
437.leslie3d	2	1461	12.9	<u>1455</u>	<u>12.9</u>	1453	12.9	2	1451	13.0	<u>1453</u>	<u>12.9</u>	1453	12.9		
444.namd	2	895	17.9	<u>889</u>	<u>18.0</u>	888	18.1	2	875	18.3	876	18.3	<u>875</u>	<u>18.3</u>		
447.dealII	2	988	23.2	<u>1009</u>	<u>22.7</u>	1011	22.6	2	<u>928</u>	<u>24.7</u>	924	24.8	928	24.6		
450.soplex	2	1249	13.4	<u>1247</u>	<u>13.4</u>	1247	13.4	2	<u>1213</u>	<u>13.8</u>	1213	13.8	1218	13.7		
453.povray	2	<u>431</u>	<u>24.7</u>	432	24.7	429	24.8	2	<u>335</u>	<u>31.8</u>	336	31.7	334	31.8		
454.calculix	2	1029	16.0	1051	15.7	<u>1050</u>	<u>15.7</u>	2	<u>1021</u>	<u>16.2</u>	1010	16.3	1045	15.8		
459.GemsFDTD	2	1786	11.9	<u>1785</u>	<u>11.9</u>	1757	12.1	2	1786	11.9	<u>1785</u>	<u>11.9</u>	1757	12.1		
465.tonto	2	1539	12.8	<u>1541</u>	<u>12.8</u>	1542	12.8	2	1539	12.8	<u>1541</u>	<u>12.8</u>	1542	12.8		
470.lbm	2	2196	12.5	<u>2196</u>	<u>12.5</u>	2196	12.5	2	2196	12.5	<u>2196</u>	<u>12.5</u>	2196	12.5		
481.wrf	2	1194	18.7	1181	18.9	<u>1186</u>	<u>18.8</u>	2	1194	18.7	1181	18.9	<u>1186</u>	<u>18.8</u>		
482.sphinx3	2	1897	20.6	<u>1897</u>	<u>20.6</u>	1898	20.5	2	1743	22.4	1751	22.3	<u>1750</u>	<u>22.3</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-823S-R500LP case,
For a general system, a 420W (minimum) ATX12V power supply [8-pin +12V AND 24-pin is recommended to assure system stability].
Product description located as of <http://www.supermicro.com/products/motherboard/Xeon3000/3010/PDSM4+.cfm>
The system bus runs at 800 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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For other inquiries, please contact webmaster@spec.org.

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