



SPEC® CFP2006 Result

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Supermicro Motherboard X7DA8+

SPECfp®_rate2006 = 35.1

SPECfp_rate_base2006 = 39.7

CPU2006 license: 001176

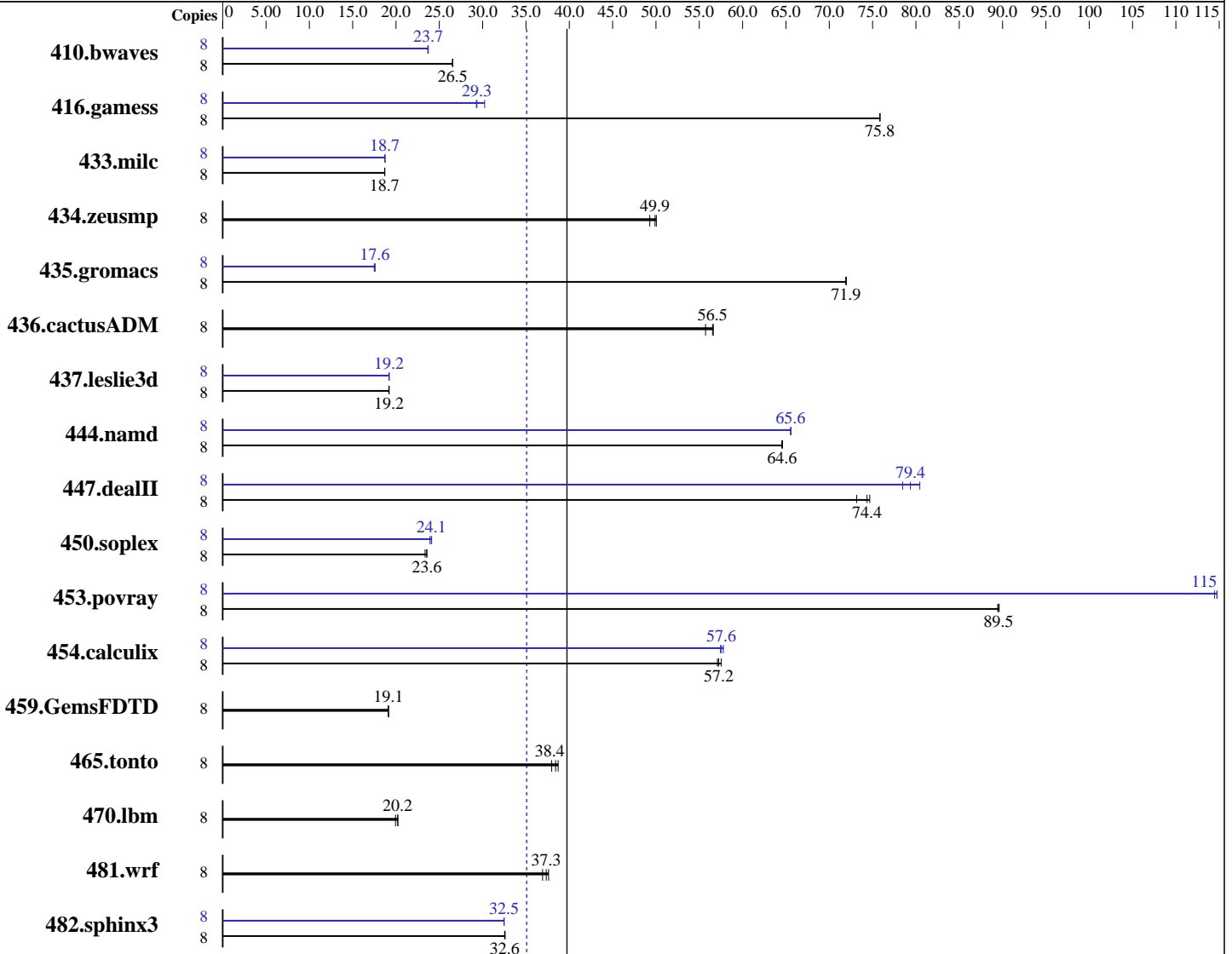
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Apr-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



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Hardware

CPU Name: Intel Xeon L5310
 CPU Characteristics: 1.60GHz, 1066 MHz Bus
 CPU MHz: 1600
 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 PC2-5300, CL5, FBDIMM)
Disk Subsystem: 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	4096	26.5	4099	26.5	4098	26.5	8	4593	23.7	4583	23.7	4585	23.7
416.gamess	8	2065	75.8	2065	75.9	2066	75.8	8	5182	30.2	5350	29.3	5339	29.3
433.milc	8	3924	18.7	3930	18.7	3929	18.7	8	3924	18.7	3922	18.7	3921	18.7
434.zeusmp	8	1459	49.9	1455	50.0	1477	49.3	8	1459	49.9	1455	50.0	1477	49.3
435.gromacs	8	794	71.9	794	72.0	794	71.9	8	3250	17.6	3250	17.6	3266	17.5
436.cactusADM	8	1716	55.7	1688	56.6	1691	56.5	8	1716	55.7	1688	56.6	1691	56.5
437.leslie3d	8	3923	19.2	3915	19.2	3917	19.2	8	3915	19.2	3917	19.2	3917	19.2
444.namd	8	994	64.5	993	64.6	994	64.6	8	979	65.6	979	65.6	979	65.5
447.dealII	8	1251	73.2	1226	74.7	1231	74.4	8	1166	78.5	1153	79.4	1138	80.5
450.soplex	8	2857	23.4	2833	23.6	2832	23.6	8	2790	23.9	2771	24.1	2767	24.1
453.povray	8	476	89.4	475	89.6	475	89.5	8	372	114	371	115	371	115
454.calculix	8	1156	57.1	1153	57.2	1147	57.5	8	1147	57.6	1142	57.8	1149	57.4
459.GemsFDTD	8	4446	19.1	4437	19.1	4436	19.1	8	4446	19.1	4437	19.1	4436	19.1
465.tonto	8	2074	38.0	2049	38.4	2033	38.7	8	2074	38.0	2049	38.4	2033	38.7
470.lbm	8	5512	19.9	5436	20.2	5444	20.2	8	5512	19.9	5436	20.2	5444	20.2
481.wrf	8	2421	36.9	2393	37.3	2376	37.6	8	2421	36.9	2393	37.3	2376	37.6
482.sphinx3	8	4789	32.6	4783	32.6	4793	32.5	8	4804	32.5	4803	32.5	4799	32.5

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-833S-R760 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/Xeon1333/5000X/X7DA8+.cfm>
The system bus runs at 1066 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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.1.
Report generated on Tue Jul 22 13:23:28 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 July 2007.