



SPEC® CFP2006 Result

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**Supermicro
Motherboard H8DM8-2**

**SPECfp®2006 = 12.7
SPECfp_base2006 = 12.7**

CPU2006 license: 001176

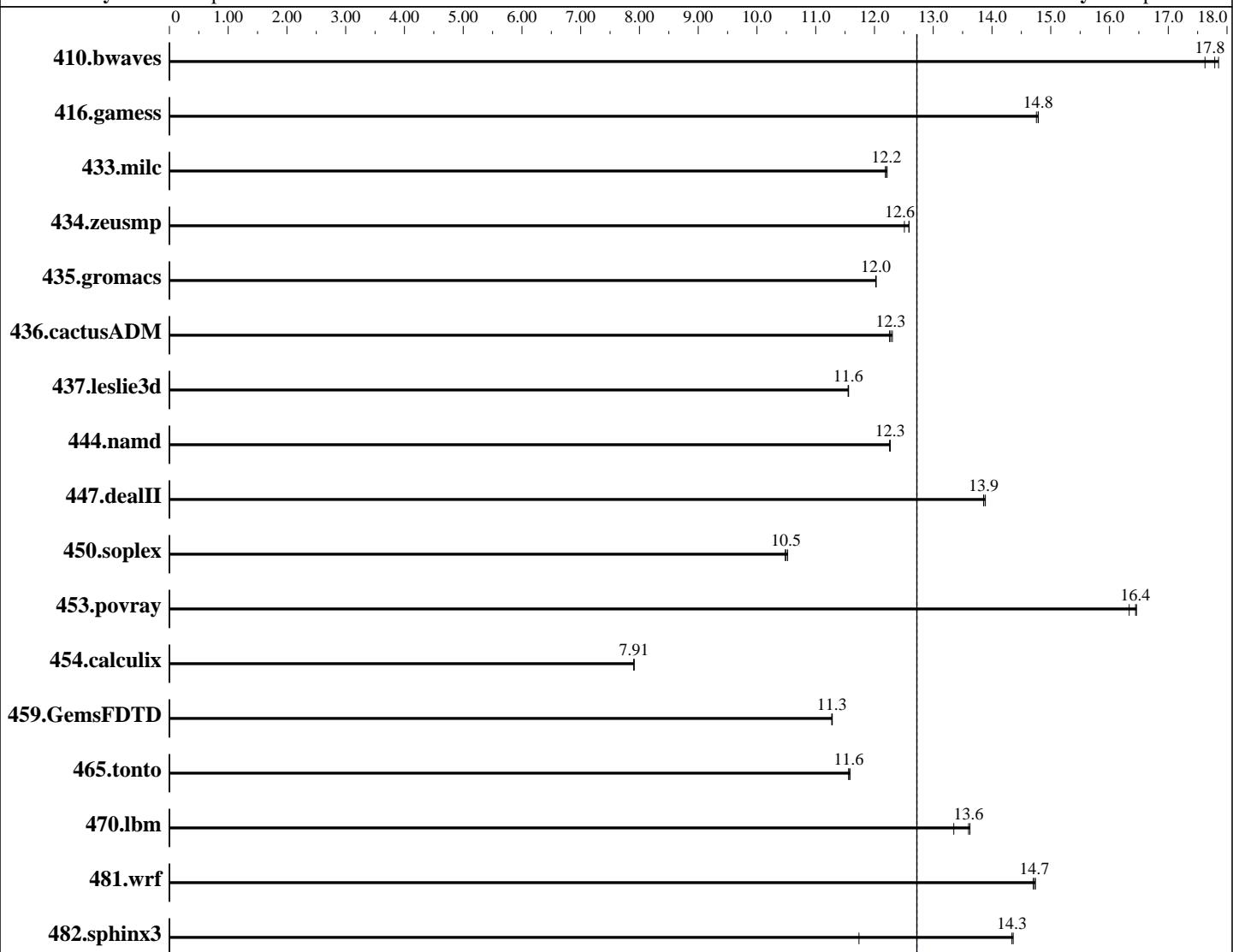
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Mar-2007

Hardware Availability: Jan-2007

Software Availability: Sep-2006



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Hardware

CPU Name: AMD Opteron 2220 SE
CPU Characteristics: 2.8GHz
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 64 KB I + 64 KB D on chip per core
Secondary Cache: 1 MB I+D on chip per core

Software

Operating System: SuSE 10.0 (Kernel 2.6.16.21-0.8-smp x86_64)
Compiler: The Portland Group (PGI)
PGI pgcc 6.2-4 C Compiler
PGI pgCC 6.2-4 C++ Compiler
PGI pgf90 6.2-4 Fortran Compiler
Auto Parallel: No
File System: ext3
System State: Multi-user

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L3 Cache: None
Other Cache: None
Memory: 64 GB (16x4GB, ECC REG PC25300 CLS)
Disk Subsystem: 250GB IDE, 7200 RPM
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	764	17.8	771	17.6	761	17.9	764	17.8	771	17.6	761	17.9
416.gamess	1324	14.8	1327	14.8	1324	14.8	1324	14.8	1327	14.8	1324	14.8
433.milc	752	12.2	753	12.2	752	12.2	752	12.2	753	12.2	752	12.2
434.zeusmp	723	12.6	727	12.5	723	12.6	723	12.6	727	12.5	723	12.6
435.gromacs	594	12.0	594	12.0	594	12.0	594	12.0	594	12.0	594	12.0
436.cactusADM	975	12.3	971	12.3	973	12.3	975	12.3	971	12.3	973	12.3
437.leslie3d	813	11.6	814	11.6	813	11.6	813	11.6	814	11.6	813	11.6
444.namd	654	12.3	654	12.3	654	12.3	654	12.3	654	12.3	654	12.3
447.dealII	824	13.9	825	13.9	825	13.9	824	13.9	825	13.9	825	13.9
450.soplex	795	10.5	793	10.5	796	10.5	795	10.5	793	10.5	796	10.5
453.povray	323	16.5	324	16.4	326	16.3	323	16.5	324	16.4	326	16.3
454.calculix	1044	7.90	1043	7.91	1043	7.91	1044	7.90	1043	7.91	1043	7.91
459.GemsFDTD	940	11.3	941	11.3	941	11.3	940	11.3	941	11.3	941	11.3
465.tonto	849	11.6	851	11.6	851	11.6	849	11.6	851	11.6	851	11.6
470.lbm	1008	13.6	1029	13.3	1010	13.6	1008	13.6	1029	13.3	1010	13.6
481.wrf	759	14.7	758	14.7	760	14.7	759	14.7	758	14.7	760	14.7
482.sphinx3	1359	14.3	1357	14.4	1661	11.7	1359	14.3	1357	14.4	1661	11.7

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Environment stack size set to 'unlimited'

Tested systems can be used with CSE-825S2-560LPV 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/Aplus/motherboard/Opteron2000/MCP55/H8DM8-2.cfm>

Base Compiler Invocation

C benchmarks:

/opt/pgi/624/linux86-64/6.2/bin/pgcc

C++ benchmarks:

/opt/pgi/624/linux86-64/6.2/bin/pgCC

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Base Compiler Invocation (Continued)

Fortran benchmarks:

/opt/pgi/624/linux86-64/6.2/bin/pgf90

Benchmarks using both Fortran and C:

/opt/pgi/624/linux86-64/6.2/bin/pgcc

/opt/pgi/624/linux86-64/6.2/bin/pgf90

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 -Mnomain
436.cactusADM: -DSPEC_CPU_LP64 -Mnomain
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 -Mnomain
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:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt -Msmaralloc
-Msigextend -tp k8-64

C++ benchmarks:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt -Msmaralloc
-tp k8-64

Fortran benchmarks:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt -Msmaralloc
-tp k8-64

Benchmarks using both Fortran and C:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed=rsqrt -Msmaralloc
-Msigextend -tp k8-64



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Base Other Flags

C benchmarks:

-w

C++ benchmarks:

-w

Fortran benchmarks:

-w

Benchmarks using both Fortran and C:

-w

Peak Compiler Invocation

C benchmarks:

/opt/pgi/624/linux86-64/6.2/bin/pgcc

C++ benchmarks:

/opt/pgi/624/linux86-64/6.2/bin/pgCC

Fortran benchmarks:

/opt/pgi/624/linux86-64/6.2/bin/pgf90

Benchmarks using both Fortran and C:

/opt/pgi/624/linux86-64/6.2/bin/pgcc

/opt/pgi/624/linux86-64/6.2/bin/pgf90

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

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Peak Optimization Flags (Continued)

444.namd: basepeak = yes

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: basepeak = yes

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

Peak Other Flags

C benchmarks:

-w

C++ benchmarks:

-w

Fortran benchmarks:

-w

Benchmarks using both Fortran and C:

-w



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

http://www.spec.org/cpu2006/flags/pgi62_flags.html

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

http://www.spec.org/cpu2006/flags/pgi62_flags.xml

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

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