SPEC® CFP2006 Result

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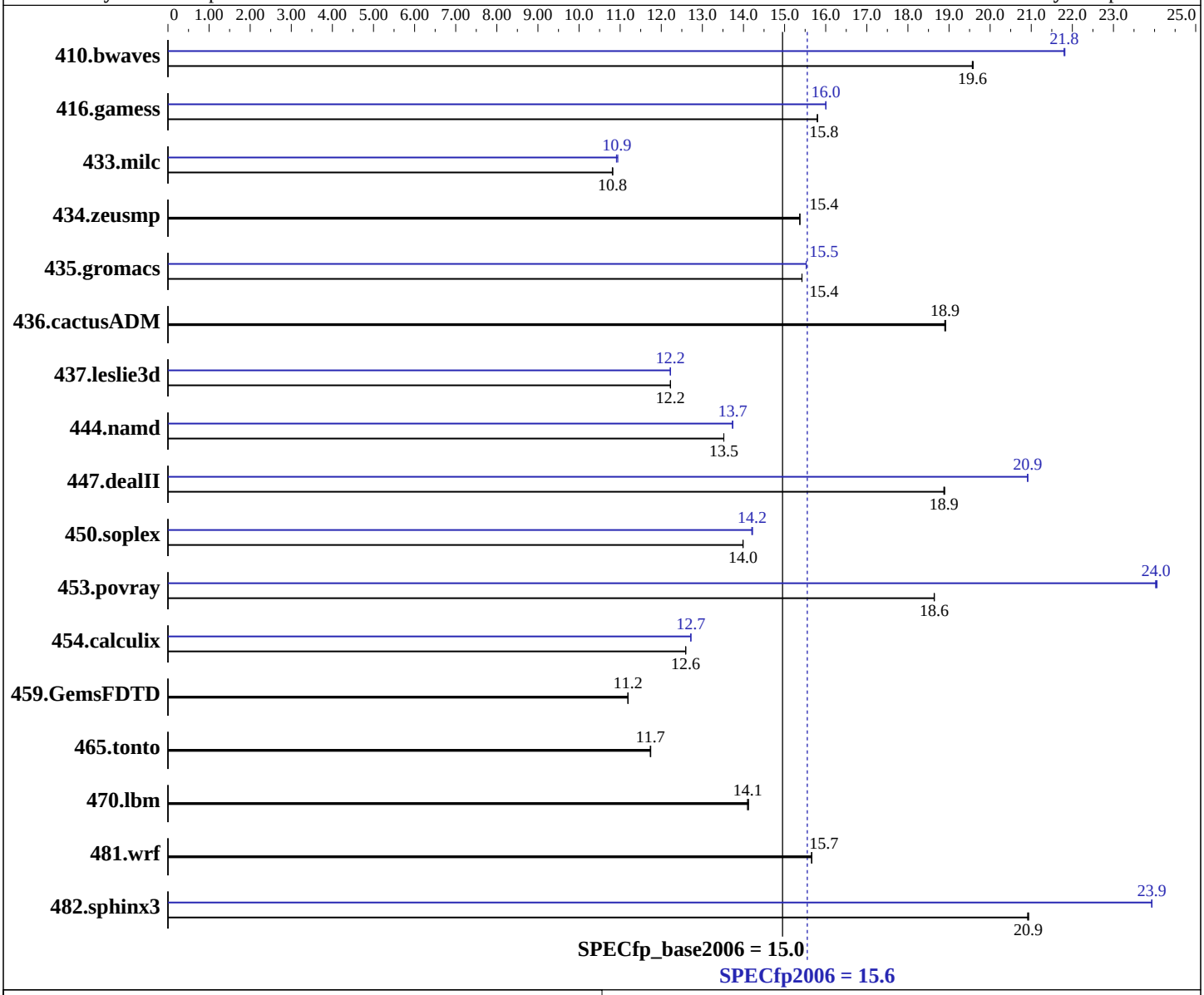
Supermicro
Motherboard PDSMI+

SPECfp®2006 = 15.6

SPECfp_base2006 = 15.0

CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

Test date: Jul-2007
Hardware Availability: May-2007
Software Availability: Apr-2007



Hardware

CPU Name:	Intel Core 2 Quad Q6700
CPU Characteristics:	2.67GHz 1066 MHz FSB
CPU MHz:	2667
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
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: 2 GB (2 X 1GB ECC PC2-5300, CL5, DDR2)
Disk Subsystem: ST3750640AS 750GB SATA II, 7200RPM
Other Hardware: None

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

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	695	19.6	**694**	**19.6**	694	19.6	623	21.8	**623**	**21.8**	623	21.8
416.gamess	1240	15.8	**1240**	**15.8**	1239	15.8	**1223**	**16.0**	1224	16.0	1223	16.0
433.milc	849	10.8	**849**	**10.8**	848	10.8	839	10.9	841	10.9	**841**	**10.9**
434.zeusmp	592	15.4	592	15.4	**592**	**15.4**	592	15.4	592	15.4	**592**	**15.4**
435.gromacs	463	15.4	**463**	**15.4**	463	15.4	460	15.5	**460**	**15.5**	460	15.5
436.cactusADM	632	18.9	632	18.9	**632**	**18.9**	632	18.9	632	18.9	**632**	**18.9**
437.leslie3d	769	12.2	769	12.2	**769**	**12.2**	**769**	**12.2**	769	12.2	769	12.2
444.namd	593	13.5	**593**	**13.5**	593	13.5	584	13.7	584	13.7	**584**	**13.7**
447.dealII	**606**	**18.9**	606	18.9	605	18.9	547	20.9	547	20.9	**547**	**20.9**
450.soplex	**596**	**14.0**	596	14.0	596	14.0	**587**	**14.2**	586	14.2	587	14.2
453.povray	285	18.6	**285**	**18.6**	285	18.6	221	24.1	221	24.0	**221**	**24.0**
454.calculix	**655**	**12.6**	655	12.6	655	12.6	648	12.7	649	12.7	**649**	**12.7**
459.GemsFDTD	948	11.2	**948**	**11.2**	948	11.2	948	11.2	**948**	**11.2**	948	11.2
465.tonto	838	11.7	**838**	**11.7**	838	11.7	838	11.7	**838**	**11.7**	838	11.7
470.lbm	973	14.1	**974**	**14.1**	974	14.1	973	14.1	**974**	**14.1**	974	14.1
481.wrf	**713**	**15.7**	713	15.7	713	15.7	**713**	**15.7**	713	15.7	713	15.7
482.sphinx3	**931**	**20.9**	931	20.9	932	20.9	**814**	**23.9**	814	23.9	815	23.9

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 SC816S-R700 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/Xeon3000/3000/PDSMi+.cfm
The system bus runs at 1066 MHz
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

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Base Compiler Invocation (Continued)

C++ benchmarks:
icl -Qvc7.1

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

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Peak Compiler Invocation (Continued)

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

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

Continued on next page

Peak Optimization Flags (Continued)

Benchmarks using both Fortran and C:

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

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.

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