



SPEC® CFP2006 Result

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Supermicro Motherboard X7DB8

SPECfp®_rate2006 = 31.1
SPECfp_rate_base2006 = 30.1

CPU2006 license: 001176

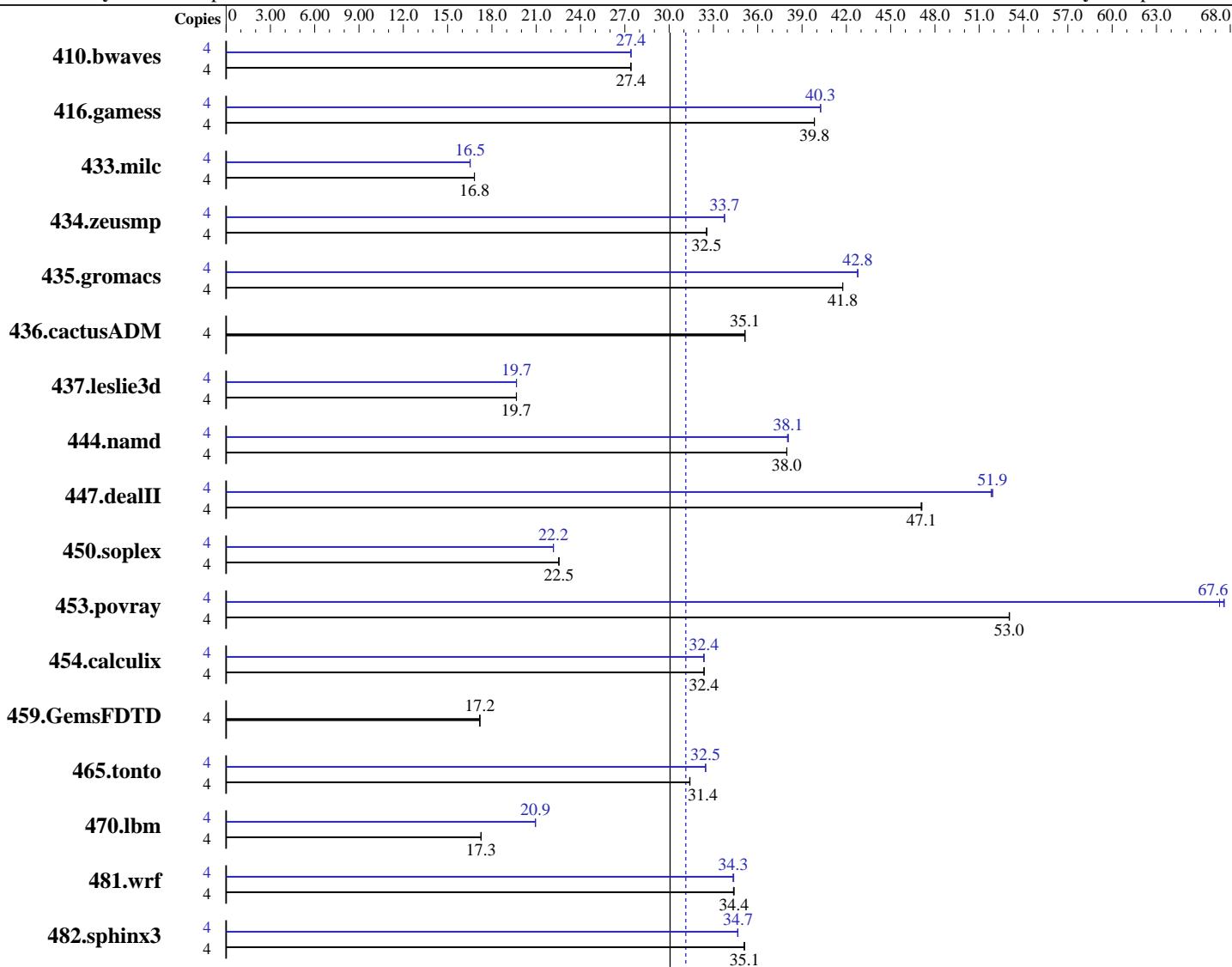
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Jun-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon 5120
CPU Characteristics: 1.86GHz 1066MHz System Bus
CPU MHz: 1860
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1, 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip

Software

Operating System: Windows Server 2003 Enterprise Edition W/ SP1
Compiler: Intel C++ Compiler for IA32 version 10.0
Build 20070426 Package ID: W_CC_P_10.0.025
Intel Fortran Compiler for IA32 version 10.0
Build 20070426 Package ID: W_FC_P_10.0.025
Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel: No
File System: NTFS
System State: Default

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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 /F9500000000 shlw32m.lib` `-link /FORCE:MULTIPLE`
C++ benchmarks:
 `-fast -Qcxx_features /F9500000000 shlw32m.lib`
 `-link /FORCE:MULTIPLE`
Fortran benchmarks:
 `-fast /F9500000000`
Benchmarks using both Fortran and C:
 `-fast /F9500000000`

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 -Qunroll2 -Oa
            /F95000000000 shlw32m.lib           -link /FORCE:MULTIPLE
470.lbm: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
         -Qscalar-rep- -Qprefetch /F95000000000 shlw32m.lib
                     -link /FORCE:MULTIPLE
482.sphinx3: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
             /F95000000000 shlw32m.lib           -link /FORCE:MULTIPLE

```

C++ benchmarks:

```

444.namd: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
            -Qcxx_features /F95000000000 shlw32m.lib
                         -link /FORCE:MULTIPLE
447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
            -Qcxx_features /F95000000000 shlw32m.lib
                         -link /FORCE:MULTIPLE
450.soplex: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
            /F95000000000 shlw32m.lib           -link /FORCE:MULTIPLE
453.povray: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
            -Qcxx_features /F95000000000 shlw32m.lib
                         -link /FORCE:MULTIPLE

```

Fortran benchmarks:

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Peak Optimization Flags (Continued)

410.bwaves: -fast /F950000000

416.gamess: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12 -Ob0
-Qansi-alias -Qscalar-rep- /F950000000

434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qprec_div-
-Qunroll10 -Qscalar-rep- /F950000000

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

459.GemsFDTD: basepeak = yes

465.tonto: Same as 437.leslie3d

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
/F950000000

436.cactusADM: basepeak = yes

454.calculix: -fast /F950000000

481.wrf: Same as 454.calculix

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.18.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.18.xml>

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

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