



SPEC® CFP2006 Result

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Bull SAS

NovaScale T860
(Intel Xeon processor E5320, 1.86GHz)

SPECfp®2006 = 12.5

SPECfp_base2006 = 12.0

CPU2006 license: 20

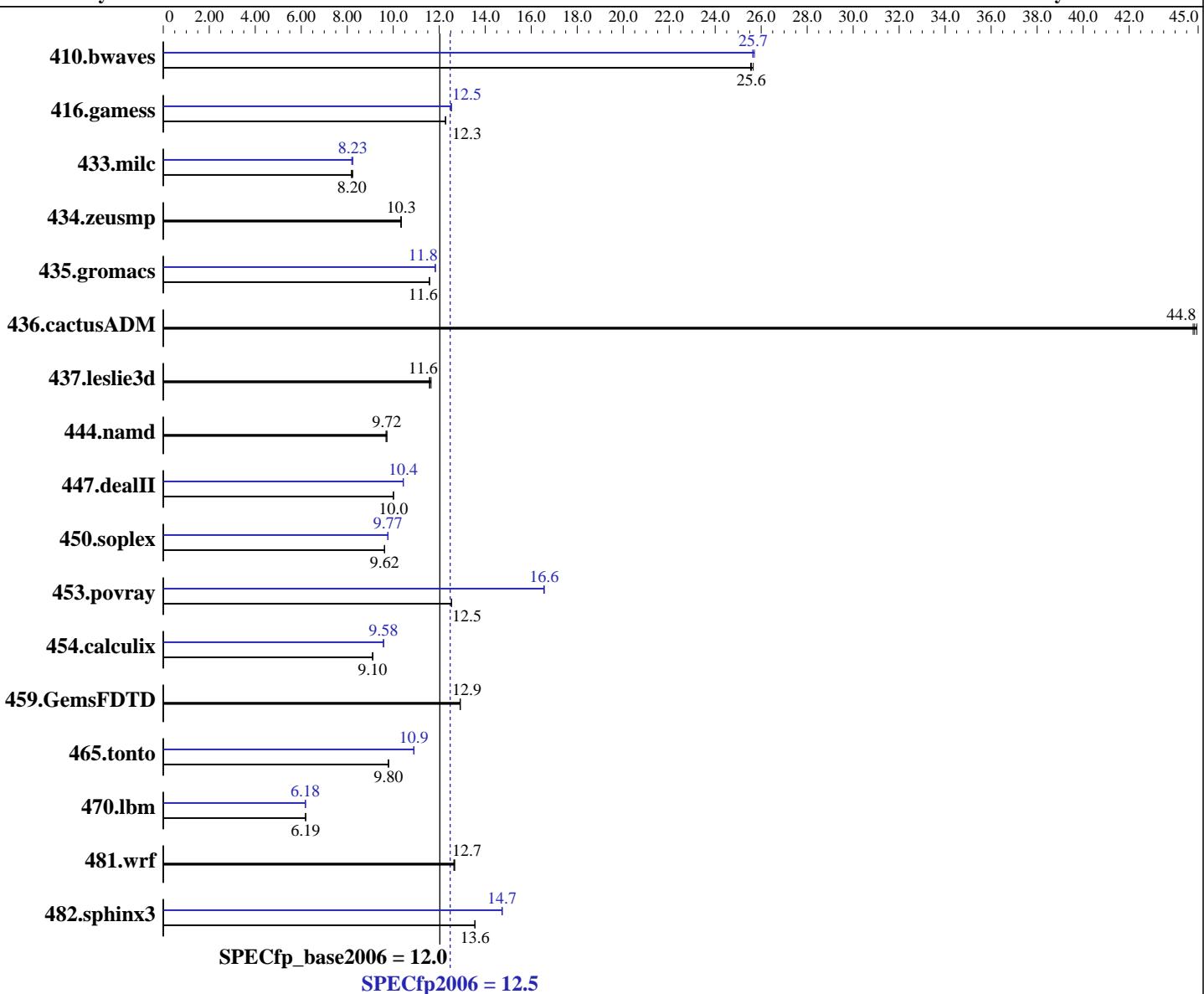
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Sep-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware	
CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 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

Software	
Operating System:	Windows Server 2003 Enterprise Edition X64 Edition Service Pack1
Compiler:	Intel C++ Compiler for EM64T version 9.1 Package ID W_CC_C_9.1.033 Build no 20061104
Auto Parallel:	Intel Fortran Compiler for EM64T version 9.1 Package ID W_FC_C_9.1.033 Build no 20061104
File System:	Microsoft Visual Studio 2005 (lib & linker)
System State:	Yes NTFS Default

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio										
410.bwaves	530	25.7	531	25.6	532	25.5	530	25.7	529	25.7	530	25.6
416.gamess	1596	12.3	1595	12.3	1595	12.3	1563	12.5	1563	12.5	1563	12.5
433.milc	1119	8.20	1114	8.24	1122	8.18	1120	8.20	1115	8.23	1115	8.23
434.zeusmp	881	10.3	879	10.3	879	10.3	881	10.3	879	10.3	879	10.3
435.gromacs	617	11.6	617	11.6	617	11.6	604	11.8	604	11.8	604	11.8
436.cactusADM	267	44.8	266	44.8	266	44.9	267	44.8	266	44.8	266	44.9
437.leslie3d	811	11.6	812	11.6	807	11.6	811	11.6	812	11.6	807	11.6
444.namd	828	9.68	825	9.72	825	9.72	828	9.68	825	9.72	825	9.72
447.dealII	1143	10.0	1143	10.0	1143	10.0	1096	10.4	1096	10.4	1096	10.4
450.soplex	867	9.62	867	9.62	867	9.62	854	9.77	854	9.77	854	9.77
453.povray	424	12.5	425	12.5	424	12.5	321	16.6	321	16.6	321	16.6
454.calculix	905	9.11	906	9.10	906	9.10	861	9.58	861	9.58	861	9.58
459.GemsFDTD	821	12.9	822	12.9	822	12.9	821	12.9	822	12.9	822	12.9
465.tonto	1006	9.78	1004	9.80	1005	9.80	903	10.9	903	10.9	903	10.9
470.lbm	2220	6.19	2220	6.19	2220	6.19	2223	6.18	2223	6.18	2223	6.18
481.wrf	882	12.7	884	12.6	882	12.7	882	12.7	884	12.6	882	12.7
482.sphinx3	1438	13.6	1438	13.6	1438	13.6	1323	14.7	1324	14.7	1322	14.7

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

Base Compiler Invocation

C benchmarks:

`icl -Qvc8 -Qc99`

C++ benchmarks:

`icl -Qvc8`

Fortran benchmarks:

`ifort`

Benchmarks using both Fortran and C:

`icl -Qvc8 -Qc99 ifort`



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Base Portability Flags

```

410.bwaves: -DSPEC_CPU_P64
416.gamess: -DSPEC_CPU_P64
    433.milc: -D_Complex= -DSPEC_CPU_P64
434.zeusmp: -DSPEC_CPU_P64
435.gromacs: -D_Complex= -DSPEC_CPU_P64
436.cactusADM: -D_Complex= -DSPEC_CPU_P64 -Qlowercase /assume:underscore
437.leslie3d: -DSPEC_CPU_P64
    444.namd: -DSPEC_CPU_P64 /TP
447.dealII: -D_Complex= -DSPEC_CPU_P64 -DBOOST_NO_INTRINSIC_WCHAR_T
    -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
454.calculix: -D_Complex= -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER
    -Qlowercase
459.GemsFDTD: -DSPEC_CPU_P64
465.tonto: -DSPEC_CPU_P64
    470.lbm: -D_Complex= -DSPEC_CPU_P64
    481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
482.sphinx3: -D_Complex= -DSPEC_CPU_P64

```

Base Optimization Flags

C benchmarks:

```
-fast -Qparallel shlw32m.lib           -link -FORCE:MULTIPLE
```

C++ benchmarks:

```
-fast -Qparallel -Qcxx-features shlw32m.lib
    -link -FORCE:MULTIPLE
```

Fortran benchmarks:

```
-fast -Qparallel           -link -FORCE:MULTIPLE
```

Benchmarks using both Fortran and C:

```
-fast -Qparallel           -link -FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

```
-F950000000
```

C++ benchmarks:

```
-F950000000
```

Fortran benchmarks:

```
-F950000000
```

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Base Other Flags (Continued)

Benchmarks using both Fortran and C:

-F950000000

Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -Qc99 ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-link -FORCE:MULTIPLE

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
-link -FORCE:MULTIPLE

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qparallel
-link -FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

416.gamess: -fast -link -FORCE:MULTIPLE
434.zeusmp: basepeak = yes
437.leslie3d: basepeak = yes
459.GemsFDTD: basepeak = yes
465.tonto: Same as 410.bwaves
Benchmarks using both Fortran and C:
435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -link -FORCE:MULTIPLE
436.cactusADM: basepeak = yes
454.calculix: Same as 435.gromacs
481.wrf: basepeak = yes

Peak Other Flags

C benchmarks:
-F950000000

C++ benchmarks:
-F950000000

Fortran benchmarks:
-F950000000

Benchmarks using both Fortran and C:
-F950000000

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/flags.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/flags.xml>



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

Tested with SPEC CPU2006 v1.0.

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