SPEC® CFP2006 Result

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Bull SAS

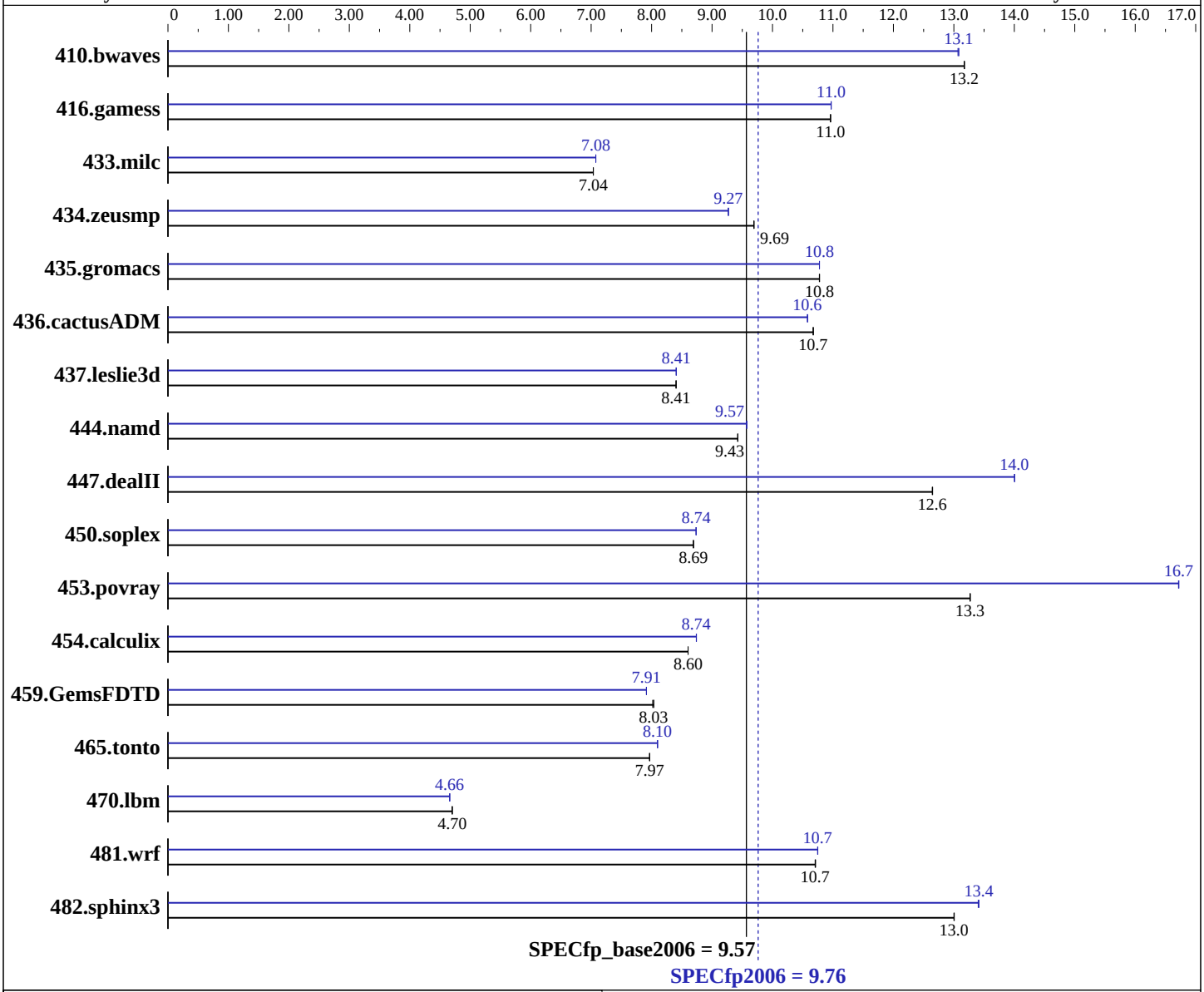
NovaScale T840 (1.86 GHz, Intel Xeon E5320)

SPECfp®2006 = 9.76

SPECfp_base2006 = 9.57

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Mar-2007
Hardware Availability: Jan-2007
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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 X64 Edition
Compiler:	Intel C++ Compiler 9.1.033 for 32-bit apps. Build 20061103Z Package ID: W_CC_C_9.1.033 Intel Fortran Compiler 9.1.033 for 32-bit app. Build 20061103Z Package ID: W_FC_C_9.1.033 Microsoft Visual Studio .NET 2003 (libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default

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L3 Cache: None
Other Cache: None
Memory: 8 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem: 3x73GB SCSI 15000 rpm
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: MicroQuill SmartHeap Library 8.0 (shlW32M.lib)

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	1032	13.2	1032	13.2	**1032**	**13.2**	**1039**	**13.1**	1040	13.1	1039	13.1
416.gamess	1787	11.0	1786	11.0	**1786**	**11.0**	1785	11.0	1785	11.0	**1785**	**11.0**
433.milc	1305	7.04	**1305**	**7.04**	1305	7.04	1297	7.08	**1297**	**7.08**	1297	7.08
434.zeusmp	939	9.69	939	9.69	**939**	**9.69**	982	9.27	982	9.27	**982**	**9.27**
435.gromacs	663	10.8	662	10.8	**662**	**10.8**	662	10.8	663	10.8	**663**	**10.8**
436.cactusADM	1120	10.7	**1120**	**10.7**	1119	10.7	1130	10.6	1129	10.6	**1130**	**10.6**
437.leslie3d	1118	8.41	**1118**	**8.41**	1118	8.40	1118	8.41	1118	8.41	**1118**	**8.41**
444.namd	851	9.43	**851**	**9.43**	851	9.43	838	9.57	838	9.57	**838**	**9.57**
447.dealII	905	12.6	**905**	**12.6**	904	12.6	817	14.0	**817**	**14.0**	817	14.0
450.soplex	959	8.69	960	8.69	**960**	**8.69**	954	8.74	**955**	**8.74**	955	8.73
453.povray	401	13.3	401	13.3	**401**	**13.3**	318	16.7	**318**	**16.7**	318	16.7
454.calculix	959	8.60	**959**	**8.60**	959	8.60	944	8.74	944	8.74	**944**	**8.74**
459.GemsFDTD	1323	8.02	**1321**	**8.03**	1320	8.04	1341	7.91	1341	7.91	**1341**	**7.91**
465.tonto	1235	7.97	**1235**	**7.97**	1235	7.97	1215	8.10	**1215**	**8.10**	1215	8.10
470.lbm	**2922**	**4.70**	2922	4.70	2922	4.70	2948	4.66	2949	4.66	**2949**	**4.66**
481.wrf	1043	10.7	1043	10.7	**1043**	**10.7**	**1039**	**10.7**	1039	10.7	1039	10.7
482.sphinx3	1498	13.0	**1499**	**13.0**	1499	13.0	1453	13.4	1454	13.4	**1453**	**13.4**

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

General Notes

```
Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to invoke
uniprocessor environment
```

Base 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
```

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
```

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Peak Compiler Invocation (Continued)

Fortran benchmarks:
ifort

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:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /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: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000 -link /FORCE:MULTIPLE

416.gamess: -fast /F950000000 -link /FORCE:MULTIPLE

434.zeusmp: Same as 410.bwaves

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: Same as 410.bwaves

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: -fast /F950000000 -link /FORCE:MULTIPLE

Continued on next page

Peak Optimization Flags (Continued)

436.cactusADM: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F950000000 -link /FORCE:MULTIPLE`

454.calculix: `Same as 436.cactusADM`

481.wrf: `Same as 435.gromacs`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/flags.20090714.00.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/flags.20090714.00.xml`

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