SPEC® CFP2006 Result

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Bull SAS

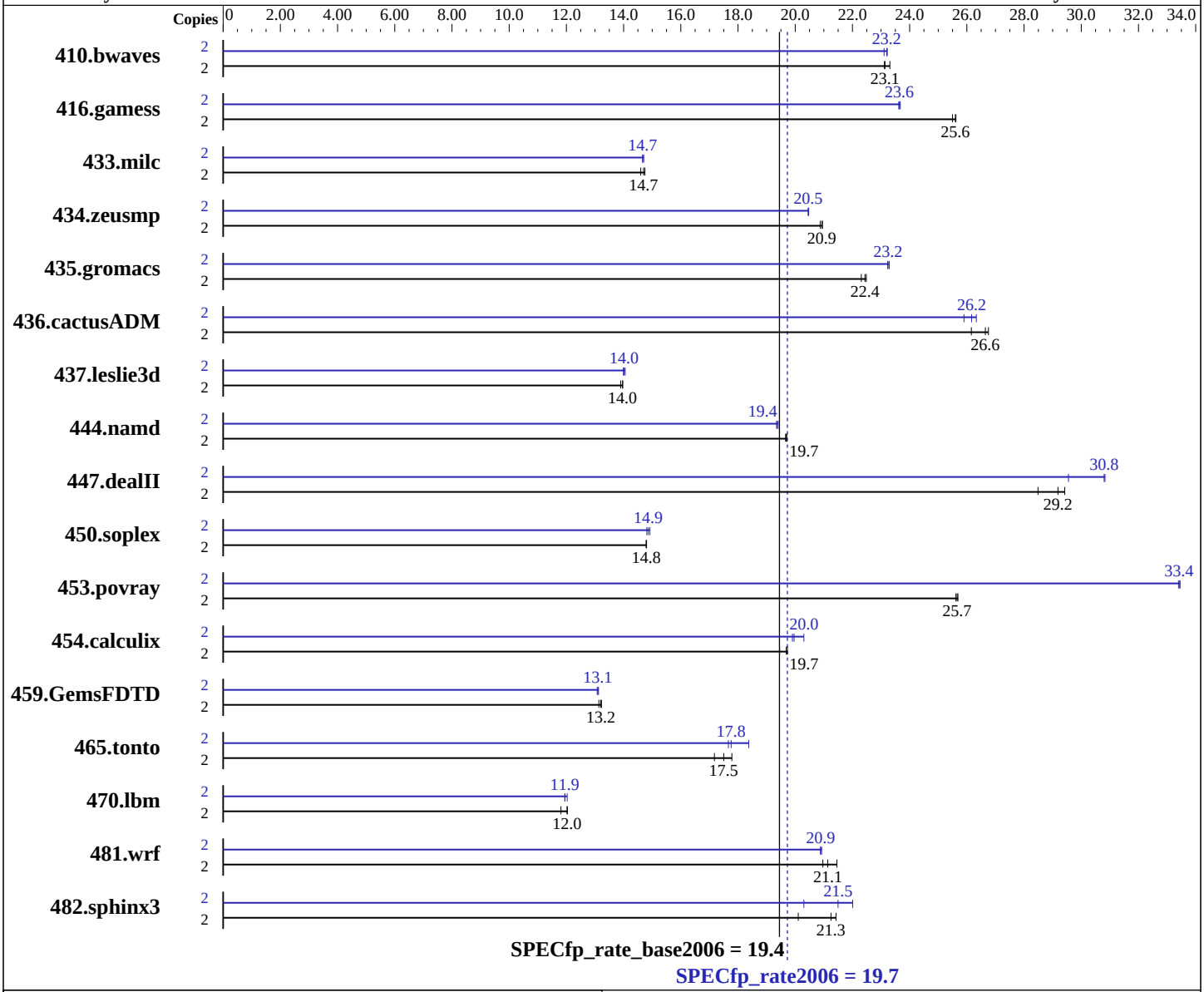
NovaScale T820
(Intel Xeon processor 3040, 1.86GHz)

SPECfp®_rate2006 = 19.7

SPECfp_rate_base2006 = 19.4

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

Test date: May-2007
Hardware Availability: Mar-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 3040
CPU Characteristics:	1.86 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	2 MB I+D on chip per chip

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Software

Operating System:	SuSE Linux Enterprise Server 10 (EM64T) kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_cc_c_9.1.045 Build no 20061101 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101
Auto Parallel:	No

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L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1 GB) PC2-4200E ECC CL4
Disk Subsystem:	1x160 GB SATA2, 7200 RPM
Other Hardware:	None

File System:	ext2
System State:	Multi-user run level 3
Base Pointers:	64-bit
Peak Pointers:	32/64-bit
Other Software:	None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1176	23.1	**1175**	**23.1**	1166	23.3	2	1171	23.2	**1172**	**23.2**	1176	23.1
416.gamess	2	1529	25.6	**1530**	**25.6**	1536	25.5	2	1658	23.6	**1656**	**23.6**	1654	23.7
433.milc	2	1258	14.6	**1249**	**14.7**	1245	14.7	2	1249	14.7	**1252**	**14.7**	1252	14.7
434.zeusmp	2	872	20.9	**869**	**20.9**	869	21.0	2	889	20.5	**890**	**20.5**	890	20.5
435.gromacs	2	640	22.3	**636**	**22.4**	635	22.5	2	613	23.3	615	23.2	**614**	**23.2**
436.cactusADM	2	914	26.2	893	26.8	**897**	**26.6**	2	923	25.9	908	26.3	**913**	**26.2**
437.leslie3d	2	1353	13.9	**1346**	**14.0**	1346	14.0	2	**1341**	**14.0**	1338	14.1	1344	14.0
444.namd	2	814	19.7	**815**	**19.7**	816	19.7	2	829	19.3	**828**	**19.4**	827	19.4
447.dealII	2	778	29.4	**784**	**29.2**	803	28.5	2	774	29.6	**743**	**30.8**	742	30.8
450.soplex	2	1127	14.8	1128	14.8	**1128**	**14.8**	2	**1122**	**14.9**	1126	14.8	1118	14.9
453.povray	2	**415**	**25.7**	415	25.6	414	25.7	2	319	33.4	318	33.5	**318**	**33.4**
454.calculix	2	**838**	**19.7**	848	19.5	836	19.7	2	813	20.3	829	19.9	**827**	**20.0**
459.GemsFDTD	2	1615	13.1	**1607**	**13.2**	1605	13.2	2	1623	13.1	**1620**	**13.1**	1617	13.1
465.tonto	2	1146	17.2	1107	17.8	**1124**	**17.5**	2	1114	17.7	**1108**	**17.8**	1071	18.4
470.lbm	2	2327	11.8	2283	12.0	**2286**	**12.0**	2	2301	11.9	**2300**	**11.9**	2285	12.0
481.wrf	2	**1057**	**21.1**	1066	21.0	1041	21.5	2	1070	20.9	1068	20.9	**1070**	**20.9**
482.sphinx3	2	1939	20.1	1819	21.4	**1834**	**21.3**	2	**1813**	**21.5**	1920	20.3	1771	22.0

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

Operating System Notes

```
Environment stack size set to 'unlimited'
'/usr/bin/taskset' used to bind processes to CPUs
```

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

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 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
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 -nofor_main
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:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks:
icc

Continued on next page

Peak Compiler Invocation (Continued)

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.xml

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

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