SPEC® CFP2006 Result

Bull SAS

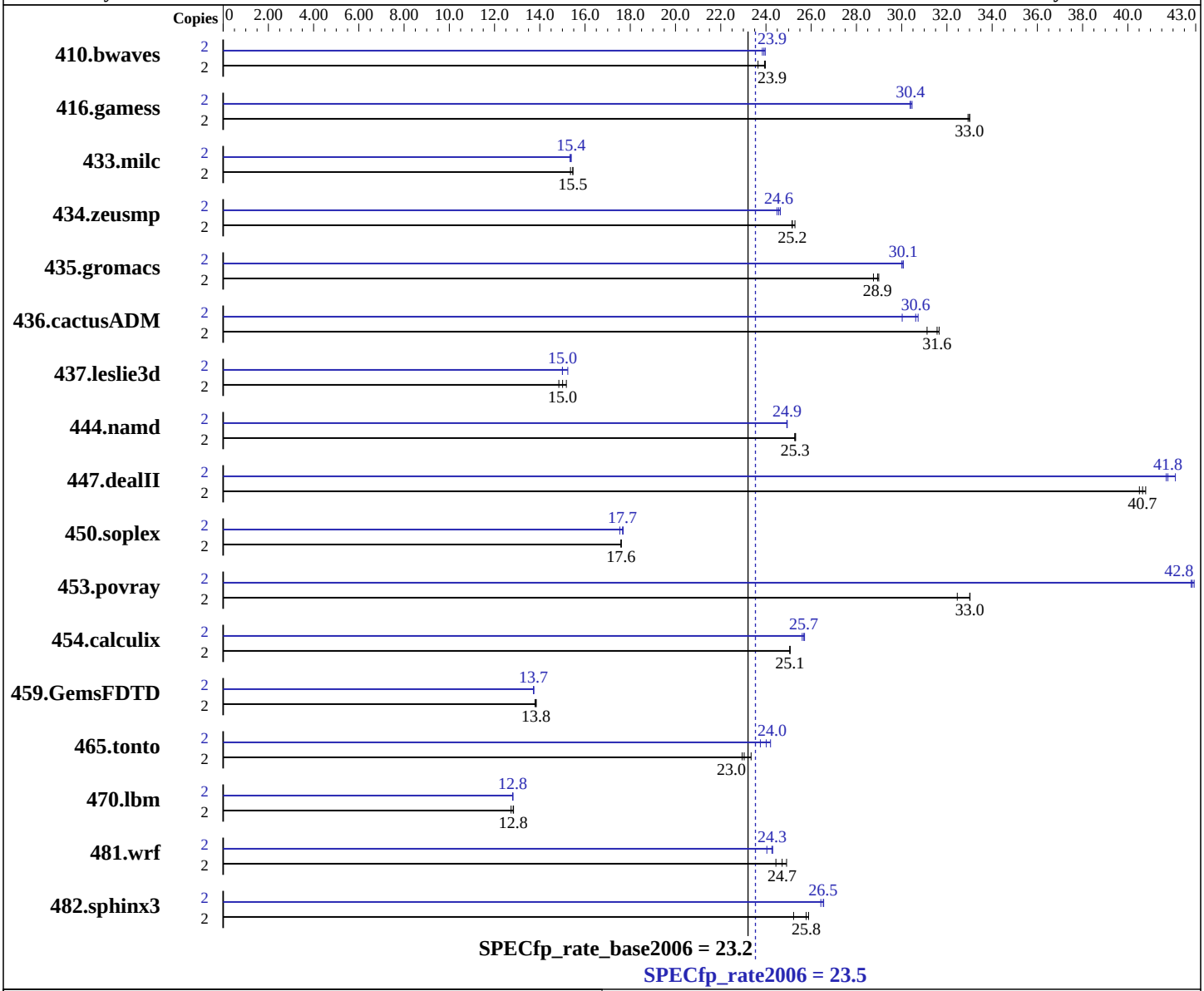
NovaScale T820
(Intel Xeon processor 3060, 2.40GHz)

SPECfp®_rate2006 = 23.5

SPECfp_rate_base2006 = 23.2

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 3060
CPU Characteristics:	2.40 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	2400
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:	4 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	File System:	ext2
Other Cache:	None	System State:	Multi-user run level 3
Memory:	4 GB (4x1 GB) PC2-4200E ECC CL4	Base Pointers:	64-bit
Disk Subsystem:	1x160 GB SATA2, 7200 RPM	Peak Pointers:	32/64-bit
Other Hardware:	None	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	1149	23.6	**1136**	**23.9**	1134	24.0	2	1134	24.0	**1137**	**23.9**	1140	23.8
416.gamess	2	1186	33.0	1189	32.9	**1187**	**33.0**	2	**1289**	**30.4**	1286	30.5	1289	30.4
433.milc	2	1195	15.4	**1188**	**15.5**	1187	15.5	2	1193	15.4	**1193**	**15.4**	1197	15.3
434.zeusmp	2	**723**	**25.2**	724	25.2	720	25.3	2	739	24.6	743	24.5	**741**	**24.6**
435.gromacs	2	**494**	**28.9**	493	29.0	497	28.8	2	476	30.0	**475**	**30.1**	475	30.1
436.cactusADM	2	**757**	**31.6**	768	31.1	755	31.7	2	796	30.0	778	30.7	**781**	**30.6**
437.leslie3d	2	1267	14.8	1239	15.2	**1253**	**15.0**	2	1253	15.0	1234	15.2	**1253**	**15.0**
444.namd	2	**634**	**25.3**	635	25.3	634	25.3	2	643	24.9	644	24.9	**643**	**24.9**
447.dealII	2	**563**	**40.7**	565	40.5	561	40.8	2	549	41.7	543	42.1	**548**	**41.8**
450.soplex	2	948	17.6	948	17.6	**948**	**17.6**	2	951	17.5	**945**	**17.7**	943	17.7
453.povray	2	**322**	**33.0**	328	32.5	322	33.0	2	248	42.9	249	42.8	**248**	**42.8**
454.calculix	2	**658**	**25.1**	658	25.1	659	25.1	2	642	25.7	**643**	**25.7**	644	25.6
459.GemsFDTD	2	1539	13.8	1533	13.8	**1534**	**13.8**	2	1544	13.7	1547	13.7	**1546**	**13.7**
465.tonto	2	858	22.9	843	23.3	**854**	**23.0**	2	829	23.8	**820**	**24.0**	813	24.2
470.lbm	2	2159	12.7	2140	12.8	**2143**	**12.8**	2	2147	12.8	2144	12.8	**2146**	**12.8**
481.wrf	2	**904**	**24.7**	914	24.4	897	24.9	2	919	24.3	929	24.0	**921**	**24.3**
482.sphinx3	2	1545	25.2	1506	25.9	**1512**	**25.8**	2	1475	26.4	**1469**	**26.5**	1468	26.6

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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