SPEC® CFP2006 Result

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Bull SAS

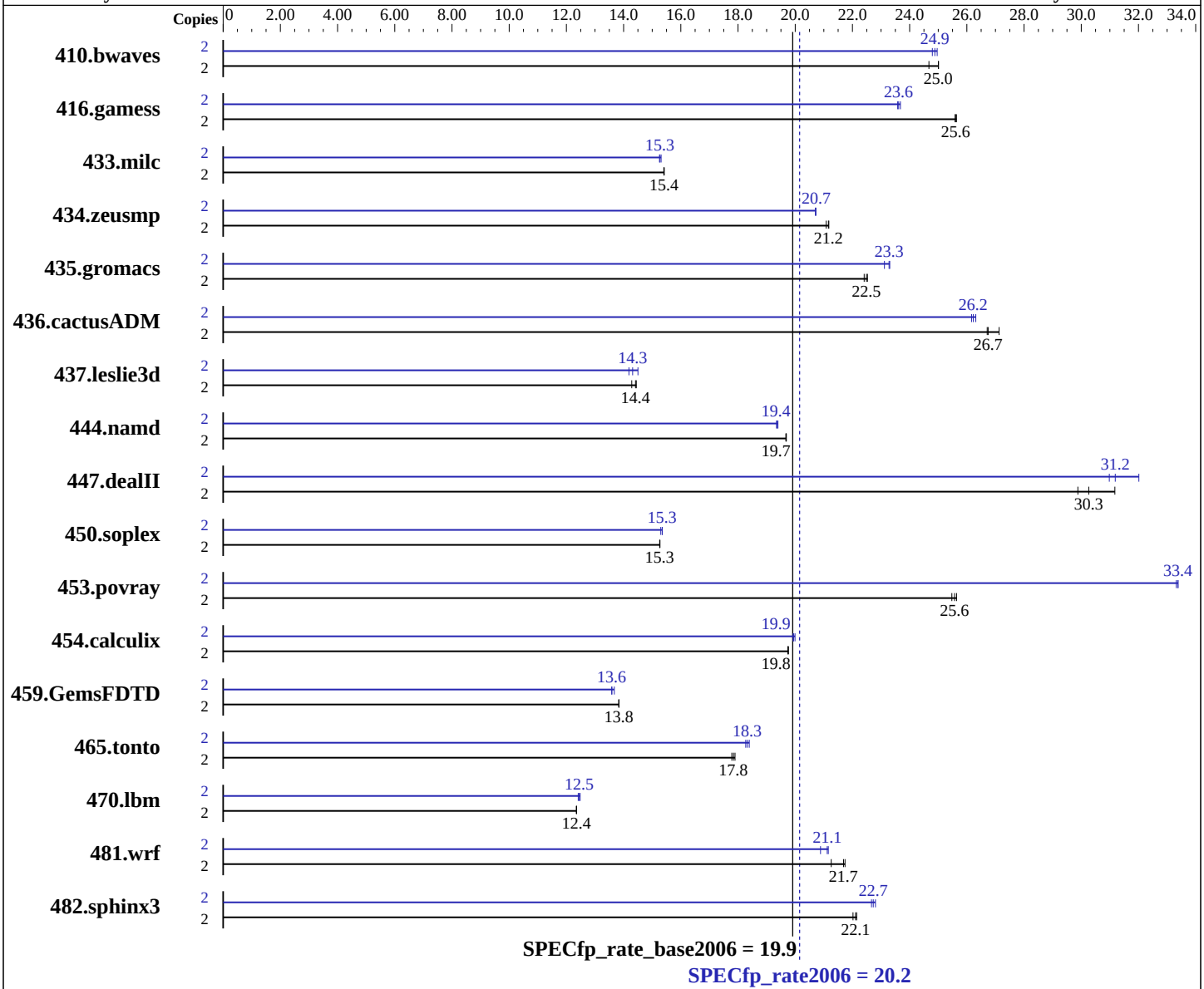
NovaScale R410
(Intel Xeon processor 3040,1.86GHz)

SPECfp®_rate2006 = 20.2

SPECfp_rate_base2006 = 19.9

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

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 3040
CPU Characteristics:	1.86 GHz, 4 MB L2, 1333 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

Continued on next page

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

Continued on next page

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L3 Cache: None
Other Cache: None
Memory: 8 GB (4x2 GB) PC2-5300E ECC CL5
Disk Subsystem: 1x80 GB SATA, 10000 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	1102	24.7	1087	25.0	**1087**	**25.0**	2	**1092**	**24.9**	1089	25.0	1096	24.8
416.gamess	2	**1529**	**25.6**	1530	25.6	1527	25.6	2	1654	23.7	**1658**	**23.6**	1661	23.6
433.milc	2	1192	15.4	1191	15.4	**1191**	**15.4**	2	1199	15.3	**1202**	**15.3**	1204	15.3
434.zeusmp	2	**860**	**21.2**	859	21.2	863	21.1	2	879	20.7	878	20.7	**879**	**20.7**
435.gromacs	2	637	22.4	634	22.5	**635**	**22.5**	2	618	23.1	**613**	**23.3**	613	23.3
436.cactusADM	2	881	27.1	895	26.7	**894**	**26.7**	2	**911**	**26.2**	913	26.2	908	26.3
437.leslie3d	2	1302	14.4	**1304**	**14.4**	1316	14.3	2	1296	14.5	**1313**	**14.3**	1325	14.2
444.namd	2	**815**	**19.7**	815	19.7	815	19.7	2	**828**	**19.4**	827	19.4	829	19.3
447.dealII	2	**756**	**30.3**	766	29.9	734	31.2	2	**734**	**31.2**	739	31.0	715	32.0
450.soplex	2	**1093**	**15.3**	1092	15.3	1093	15.3	2	1086	15.4	**1087**	**15.3**	1090	15.3
453.povray	2	418	25.5	**416**	**25.6**	415	25.6	2	**319**	**33.4**	319	33.4	319	33.3
454.calculix	2	836	19.7	835	19.8	**835**	**19.8**	2	825	20.0	828	19.9	**827**	**19.9**
459.GemsFDTD	2	1533	13.8	1534	13.8	**1534**	**13.8**	2	1552	13.7	**1562**	**13.6**	1562	13.6
465.tonto	2	1107	17.8	**1103**	**17.8**	1100	17.9	2	**1074**	**18.3**	1077	18.3	1070	18.4
470.lbm	2	2224	12.4	**2224**	**12.4**	2225	12.3	2	2202	12.5	**2207**	**12.5**	2214	12.4
481.wrf	2	**1030**	**21.7**	1051	21.3	1028	21.7	2	**1058**	**21.1**	1070	20.9	1056	21.2
482.sphinx3	2	1760	22.2	1770	22.0	**1763**	**22.1**	2	1720	22.7	1709	22.8	**1715**	**22.7**

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

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

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