



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor 5110,1.60GHz)

SPECfp[®]_rate2006 = 29.2

SPECfp_rate_base2006 = 28.8

CPU2006 license: 20

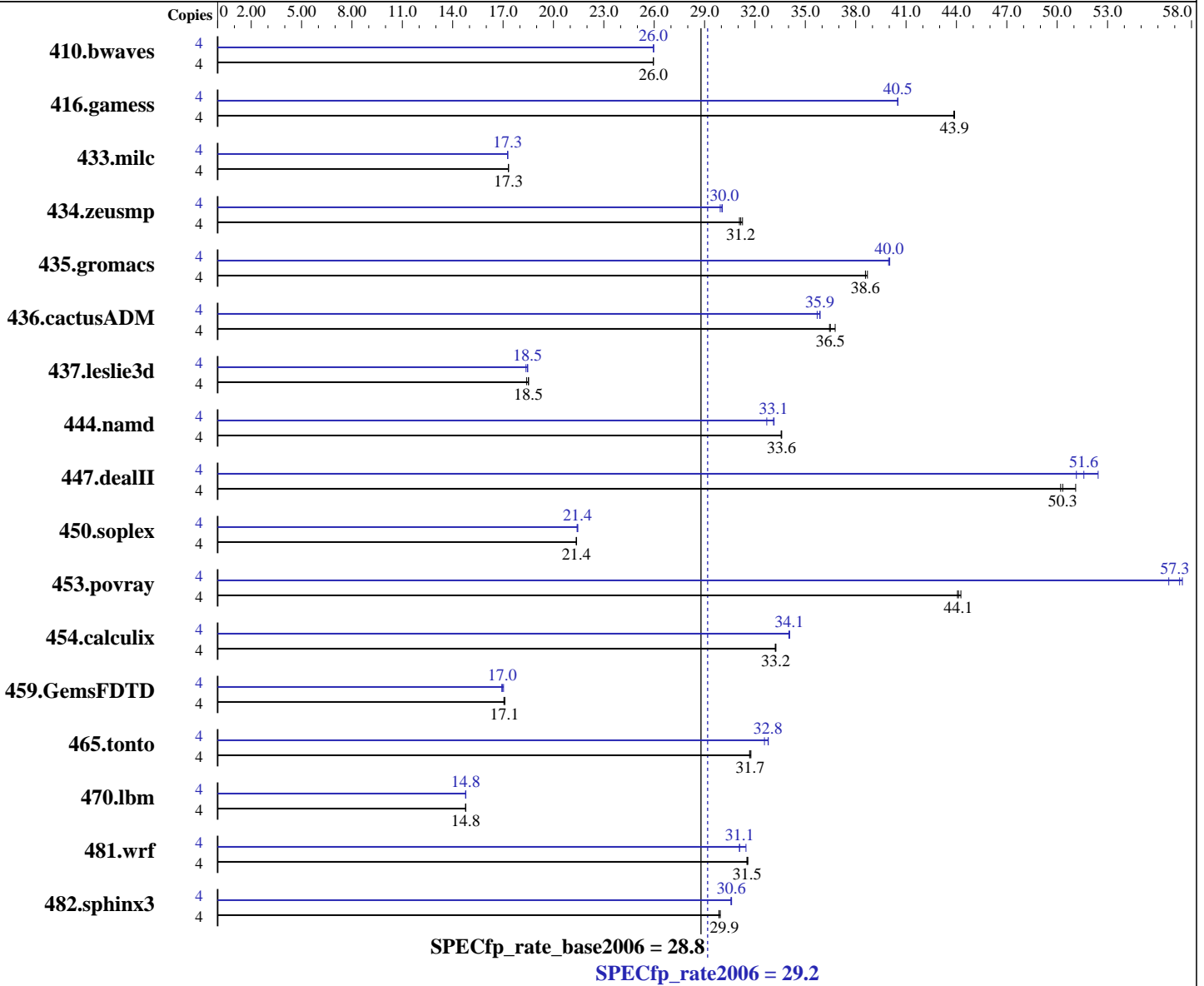
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1.60 GHz, 4 MB L2, 1066 MHz system bus
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1 to 2 chips
 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
Other Cache: None
Memory: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 15000 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	4	<u>2095</u>	<u>26.0</u>	2095	26.0	2095	25.9	4	2093	26.0	<u>2094</u>	<u>26.0</u>	2094	26.0
416.gamess	4	1785	43.9	1787	43.8	<u>1785</u>	<u>43.9</u>	4	1933	40.5	1934	40.5	<u>1933</u>	<u>40.5</u>
433.milc	4	2121	17.3	2120	17.3	<u>2120</u>	<u>17.3</u>	4	<u>2125</u>	<u>17.3</u>	2125	17.3	2127	17.3
434.zeusmp	4	1164	31.3	<u>1168</u>	<u>31.2</u>	1171	31.1	4	<u>1212</u>	<u>30.0</u>	1211	30.1	1216	29.9
435.gromacs	4	740	38.6	<u>740</u>	<u>38.6</u>	738	38.7	4	713	40.0	<u>714</u>	<u>40.0</u>	715	40.0
436.cactusADM	4	1312	36.4	<u>1310</u>	<u>36.5</u>	1300	36.8	4	<u>1333</u>	<u>35.9</u>	1339	35.7	1332	35.9
437.leslie3d	4	<u>2032</u>	<u>18.5</u>	2030	18.5	2044	18.4	4	2047	18.4	2036	18.5	<u>2037</u>	<u>18.5</u>
444.namd	4	<u>955</u>	<u>33.6</u>	955	33.6	956	33.6	4	968	33.1	981	32.7	<u>969</u>	<u>33.1</u>
447.dealII	4	<u>909</u>	<u>50.3</u>	911	50.2	895	51.1	4	895	51.1	<u>887</u>	<u>51.6</u>	873	52.4
450.soplex	4	1562	21.4	<u>1561</u>	<u>21.4</u>	1561	21.4	4	1558	21.4	<u>1556</u>	<u>21.4</u>	1556	21.4
453.povray	4	483	44.1	481	44.3	<u>482</u>	<u>44.1</u>	4	<u>371</u>	<u>57.3</u>	376	56.6	370	57.5
454.calculix	4	<u>993</u>	<u>33.2</u>	993	33.2	994	33.2	4	970	34.0	<u>969</u>	<u>34.1</u>	969	34.1
459.GemsFDTD	4	2482	17.1	2489	17.0	<u>2483</u>	<u>17.1</u>	4	<u>2503</u>	<u>17.0</u>	2492	17.0	2508	16.9
465.tonto	4	1239	31.8	<u>1241</u>	<u>31.7</u>	1242	31.7	4	1200	32.8	<u>1201</u>	<u>32.8</u>	1209	32.6
470.lbm	4	3719	14.8	3721	14.8	<u>3720</u>	<u>14.8</u>	4	<u>3719</u>	<u>14.8</u>	3721	14.8	3718	14.8
481.wrf	4	1415	31.6	<u>1417</u>	<u>31.5</u>	1417	31.5	4	1420	31.5	<u>1437</u>	<u>31.1</u>	1438	31.1
482.sphinx3	4	2611	29.9	2604	29.9	<u>2610</u>	<u>29.9</u>	4	2550	30.6	2547	30.6	<u>2548</u>	<u>30.6</u>

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

General Notes

The NovaScale R440 and the NovaScale R460 models are electronically equivalent.
The results have been measured on a NovaScale R460 model.



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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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



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Peak Compiler Invocation

C benchmarks:
icc

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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