



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor 5130,2.00GHz)

SPECfp[®]_rate2006 = 36.1

SPECfp_rate_base2006 = 35.7

CPU2006 license: 20

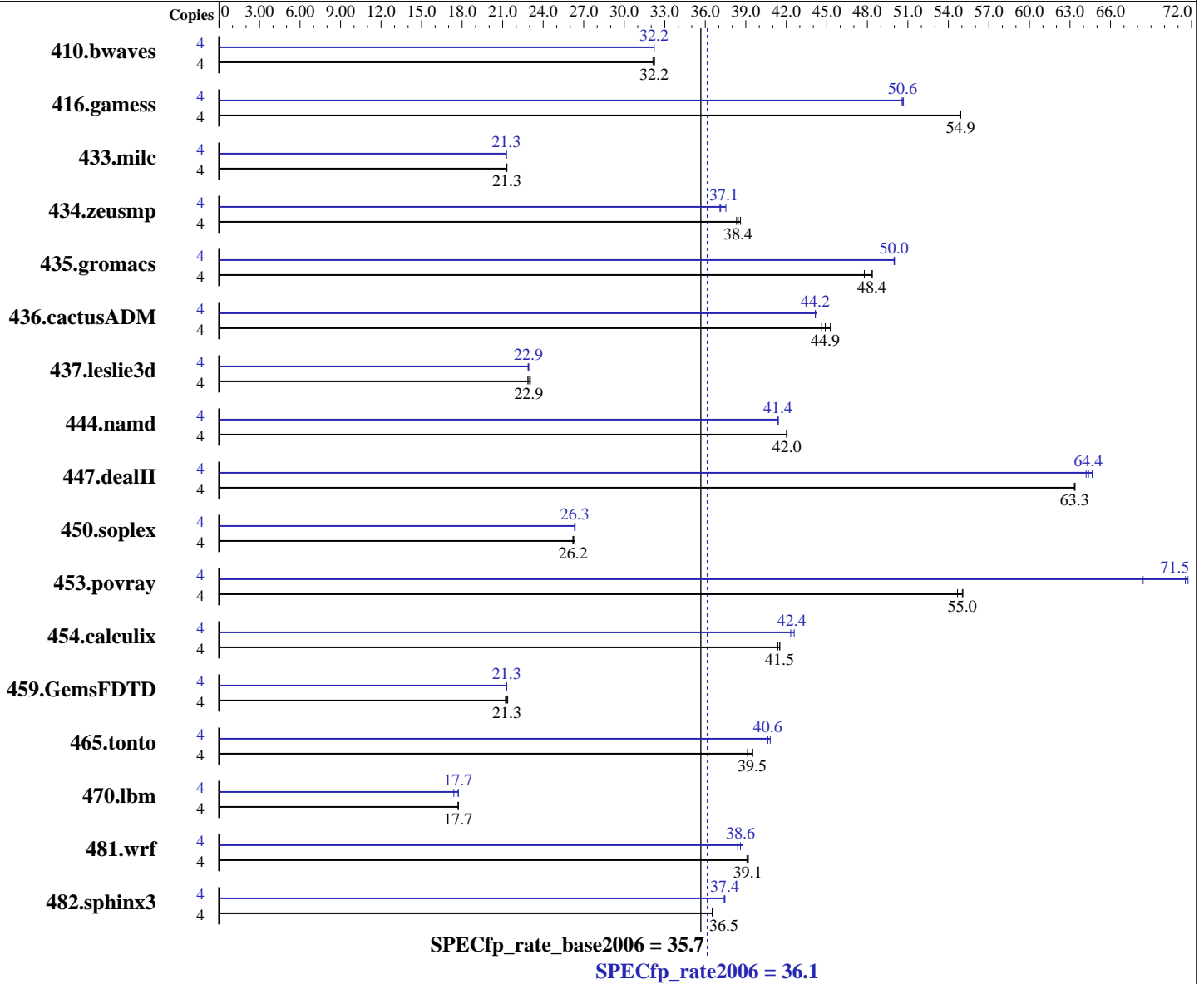
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.00 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2000
 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>1687</u>	<u>32.2</u>	1686	32.2	1692	32.1	4	1687	32.2	1688	32.2	<u>1688</u>	<u>32.2</u>
416.gamess	4	1428	54.9	1426	54.9	<u>1426</u>	<u>54.9</u>	4	<u>1547</u>	<u>50.6</u>	1550	50.5	1545	50.7
433.milc	4	1724	21.3	<u>1723</u>	<u>21.3</u>	1723	21.3	4	<u>1726</u>	<u>21.3</u>	1726	21.3	1727	21.3
434.zeusmp	4	943	38.6	<u>947</u>	<u>38.4</u>	950	38.3	4	<u>980</u>	<u>37.1</u>	970	37.5	981	37.1
435.gromacs	4	598	47.8	591	48.4	<u>591</u>	<u>48.4</u>	4	<u>571</u>	<u>50.0</u>	571	50.0	571	50.0
436.cactusADM	4	1056	45.3	1071	44.6	<u>1065</u>	<u>44.9</u>	4	1083	44.1	1080	44.3	<u>1083</u>	<u>44.2</u>
437.leslie3d	4	1631	23.1	<u>1639</u>	<u>22.9</u>	1645	22.9	4	1643	22.9	<u>1641</u>	<u>22.9</u>	1639	22.9
444.namd	4	763	42.1	763	42.0	<u>763</u>	<u>42.0</u>	4	<u>775</u>	<u>41.4</u>	775	41.4	775	41.4
447.dealII	4	722	63.4	724	63.2	<u>722</u>	<u>63.3</u>	4	<u>711</u>	<u>64.4</u>	713	64.2	708	64.6
450.soplex	4	1267	26.3	1273	26.2	<u>1272</u>	<u>26.2</u>	4	<u>1266</u>	<u>26.3</u>	1265	26.4	1267	26.3
453.povray	4	389	54.7	386	55.1	<u>387</u>	<u>55.0</u>	4	<u>297</u>	<u>71.5</u>	311	68.4	297	71.7
454.calculix	4	795	41.5	<u>795</u>	<u>41.5</u>	798	41.4	4	780	42.3	<u>778</u>	<u>42.4</u>	775	42.6
459.GemsFDTD	4	<u>1991</u>	<u>21.3</u>	1985	21.4	2001	21.2	4	1992	21.3	1994	21.3	<u>1993</u>	<u>21.3</u>
465.tonto	4	1006	39.1	<u>997</u>	<u>39.5</u>	996	39.5	4	970	40.6	964	40.8	<u>969</u>	<u>40.6</u>
470.lbm	4	<u>3103</u>	<u>17.7</u>	3101	17.7	3104	17.7	4	3161	17.4	<u>3103</u>	<u>17.7</u>	3102	17.7
481.wrf	4	1143	39.1	1140	39.2	<u>1141</u>	<u>39.1</u>	4	1152	38.8	<u>1157</u>	<u>38.6</u>	1163	38.4
482.sphinx3	4	2131	36.6	2135	36.5	<u>2135</u>	<u>36.5</u>	4	2084	37.4	2082	37.5	<u>2082</u>	<u>37.4</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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For other inquiries, please contact webmaster@spec.org.

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