



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5160,3.00GHz)

SPECfp[®]_rate2006 = 44.1

SPECfp_rate_base2006 = 43.4

CPU2006 license: 20

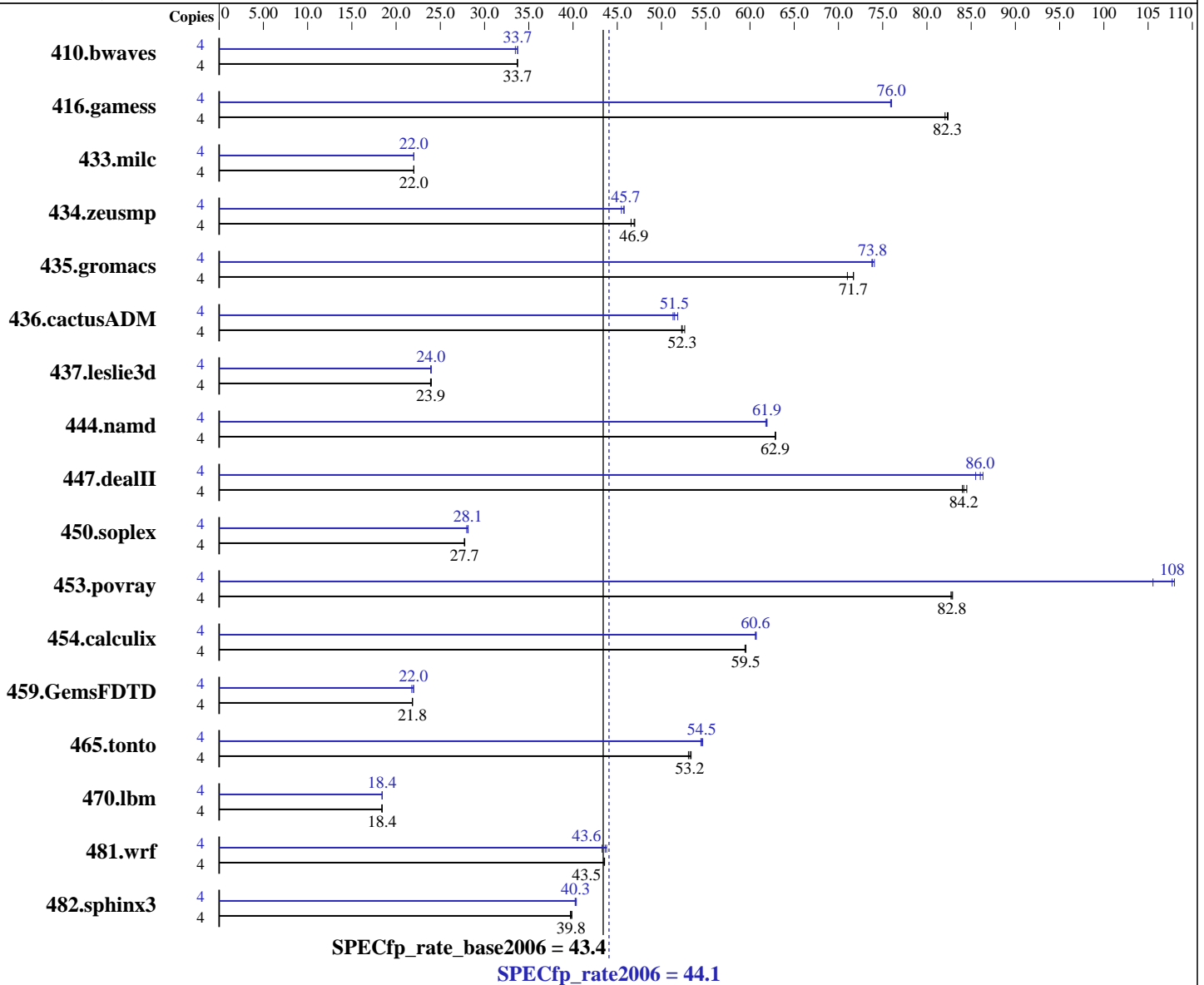
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 3.00 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 3000
 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	1611	33.7	<u>1612</u>	<u>33.7</u>	1614	33.7	4	1612	33.7	<u>1612</u>	<u>33.7</u>	1624	33.5
416.gamess	4	<u>952</u>	<u>82.3</u>	951	82.4	955	82.0	4	<u>1031</u>	<u>76.0</u>	1032	75.9	1030	76.0
433.milc	4	<u>1669</u>	<u>22.0</u>	1669	22.0	1668	22.0	4	1669	22.0	1669	22.0	<u>1669</u>	<u>22.0</u>
434.zeusmp	4	<u>776</u>	<u>46.9</u>	782	46.6	775	47.0	4	801	45.5	795	45.8	<u>796</u>	<u>45.7</u>
435.gromacs	4	398	71.7	<u>398</u>	<u>71.7</u>	402	71.0	4	386	74.1	<u>387</u>	<u>73.8</u>	387	73.8
436.cactusADM	4	<u>913</u>	<u>52.3</u>	908	52.6	914	52.3	4	932	51.3	<u>929</u>	<u>51.5</u>	922	51.8
437.leslie3d	4	1568	24.0	<u>1572</u>	<u>23.9</u>	1574	23.9	4	1572	23.9	<u>1570</u>	<u>24.0</u>	1569	24.0
444.namd	4	510	62.9	<u>510</u>	<u>62.9</u>	511	62.8	4	<u>518</u>	<u>61.9</u>	518	61.9	519	61.8
447.dealII	4	545	84.0	542	84.5	<u>544</u>	<u>84.2</u>	4	530	86.3	<u>532</u>	<u>86.0</u>	535	85.5
450.soplex	4	1201	27.8	1204	27.7	<u>1202</u>	<u>27.7</u>	4	<u>1187</u>	<u>28.1</u>	1192	28.0	1185	28.1
453.povray	4	257	82.9	<u>257</u>	<u>82.8</u>	257	82.7	4	202	106	197	108	<u>198</u>	<u>108</u>
454.calculix	4	554	59.5	555	59.4	<u>554</u>	<u>59.5</u>	4	544	60.7	<u>544</u>	<u>60.6</u>	544	60.6
459.GemsFDTD	4	<u>1943</u>	<u>21.8</u>	1944	21.8	1941	21.9	4	<u>1932</u>	<u>22.0</u>	1931	22.0	1949	21.8
465.tonto	4	738	53.3	742	53.0	<u>740</u>	<u>53.2</u>	4	<u>722</u>	<u>54.5</u>	720	54.7	723	54.5
470.lbm	4	<u>2983</u>	<u>18.4</u>	2990	18.4	2981	18.4	4	2983	18.4	2984	18.4	<u>2983</u>	<u>18.4</u>
481.wrf	4	1027	43.5	1025	43.6	<u>1027</u>	<u>43.5</u>	4	<u>1024</u>	<u>43.6</u>	1032	43.3	1020	43.8
482.sphinx3	4	1964	39.7	<u>1960</u>	<u>39.8</u>	1955	39.9	4	1931	40.4	<u>1935</u>	<u>40.3</u>	1937	40.2

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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