



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor E5345,2.33GHz)

SPECfp[®]_rate2006 = 54.0

SPECfp_rate_base2006 = 53.3

CPU2006 license: 20

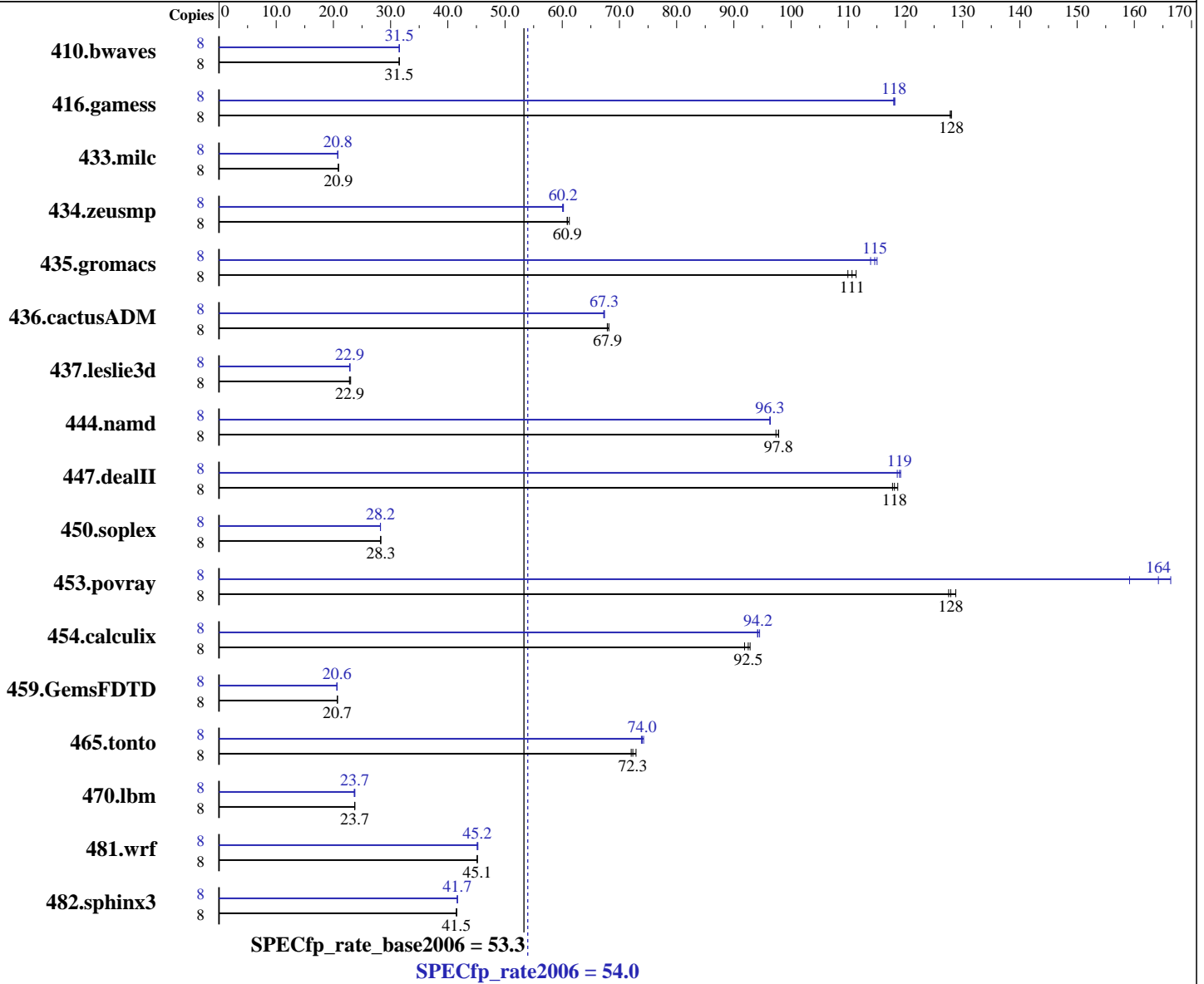
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: 2.33GHz, 2x4 MB L2 shared, 1333 MHz system bus
 CPU MHz: 2330
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

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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 (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 73 GB SAS, 10000RPM
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	8	3449	31.5	3451	31.5	<u>3451</u>	<u>31.5</u>	8	3448	31.5	<u>3450</u>	<u>31.5</u>	3450	31.5
416.gamess	8	1224	128	<u>1224</u>	<u>128</u>	1226	128	8	<u>1327</u>	<u>118</u>	1326	118	1328	118
433.milc	8	<u>3518</u>	<u>20.9</u>	3515	20.9	3519	20.9	8	3533	20.8	3538	20.8	<u>3537</u>	<u>20.8</u>
434.zeusmp	8	1189	61.2	<u>1195</u>	<u>60.9</u>	1196	60.9	8	1209	60.2	<u>1210</u>	<u>60.2</u>	1212	60.1
435.gromacs	8	520	110	513	111	<u>516</u>	<u>111</u>	8	<u>498</u>	<u>115</u>	501	114	497	115
436.cactusADM	8	<u>1408</u>	<u>67.9</u>	1403	68.2	1408	67.9	8	1419	67.4	<u>1420</u>	<u>67.3</u>	1421	67.3
437.leslie3d	8	3267	23.0	3298	22.8	<u>3287</u>	<u>22.9</u>	8	3293	22.8	<u>3287</u>	<u>22.9</u>	3283	22.9
444.namd	8	659	97.4	<u>656</u>	<u>97.8</u>	656	97.8	8	666	96.4	666	96.3	<u>666</u>	<u>96.3</u>
447.dealII	8	771	119	777	118	<u>775</u>	<u>118</u>	8	<u>769</u>	<u>119</u>	768	119	772	119
450.soplex	8	<u>2360</u>	<u>28.3</u>	2362	28.2	2360	28.3	8	<u>2364</u>	<u>28.2</u>	2365	28.2	2363	28.2
453.povray	8	334	128	<u>333</u>	<u>128</u>	330	129	8	267	159	256	166	<u>259</u>	<u>164</u>
454.calculix	8	<u>713</u>	<u>92.5</u>	718	91.9	711	92.8	8	698	94.5	<u>700</u>	<u>94.2</u>	701	94.1
459.GemsFDTD	8	4106	20.7	<u>4103</u>	<u>20.7</u>	4097	20.7	8	4124	20.6	4110	20.7	<u>4111</u>	<u>20.6</u>
465.tonto	8	<u>1088</u>	<u>72.3</u>	1093	72.1	1080	72.9	8	<u>1064</u>	<u>74.0</u>	1061	74.2	1066	73.8
470.lbm	8	4632	23.7	<u>4632</u>	<u>23.7</u>	4631	23.7	8	<u>4631</u>	<u>23.7</u>	4651	23.6	4631	23.7
481.wrf	8	<u>1979</u>	<u>45.1</u>	1980	45.1	1979	45.2	8	<u>1978</u>	<u>45.2</u>	1974	45.3	1980	45.1
482.sphinx3	8	3751	41.6	3758	41.5	<u>3755</u>	<u>41.5</u>	8	<u>3743</u>	<u>41.7</u>	3740	41.7	3743	41.7

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

General Notes

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