



SPEC® CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor X5355,2.66GHz)

SPECfp®_rate2006 = 57.2

SPECfp_rate_base2006 = 56.5

CPU2006 license: 20

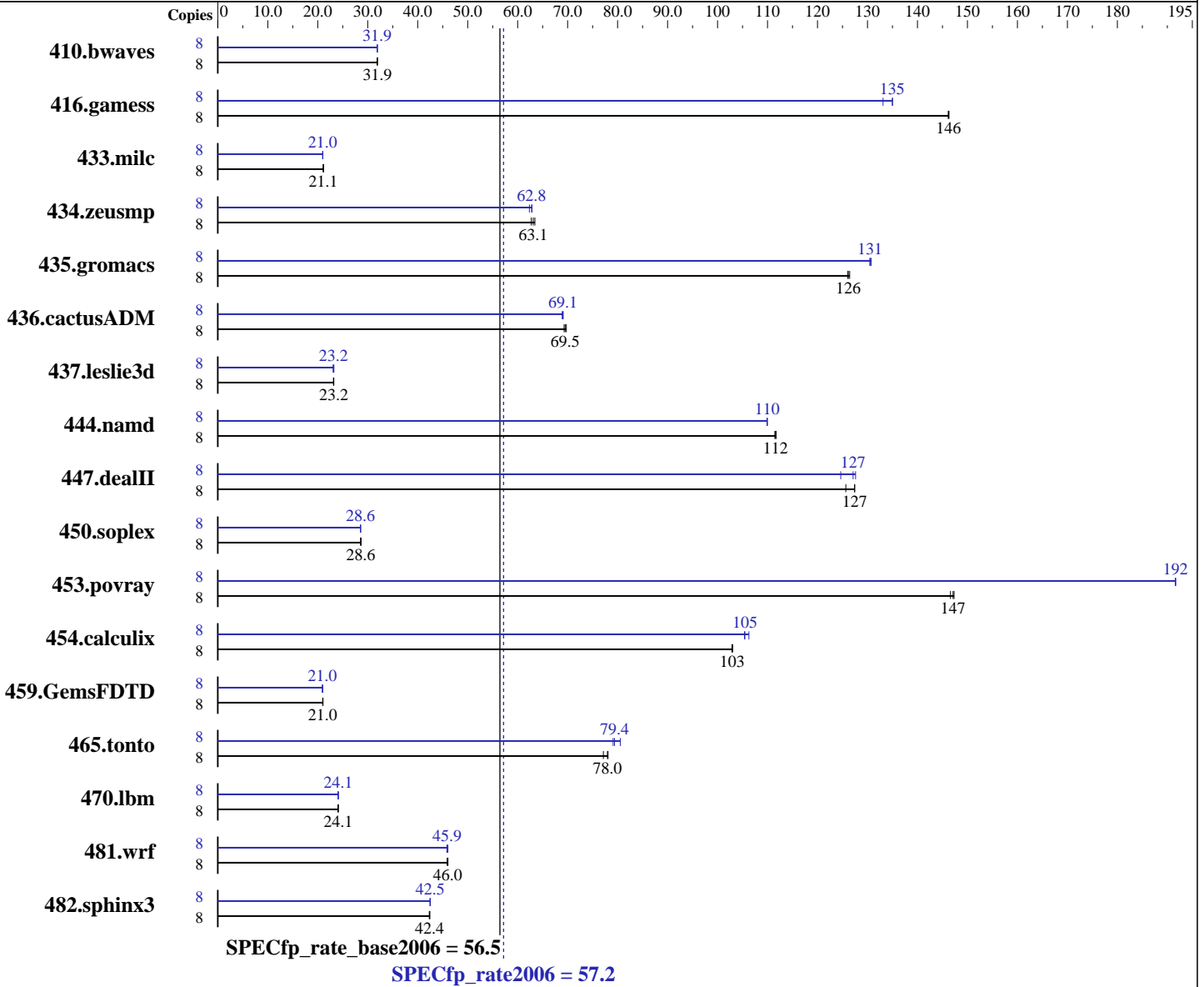
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 2.66 GHz, 8 MB L2, 1333 MHz system bus
 CPU MHz: 2666
 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 (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 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	8	3405	31.9	3405	31.9	3408	31.9	8	3407	31.9	3406	31.9	3406	31.9
416.gamess	8	1071	146	1072	146	1071	146	8	1160	135	1177	133	1161	135
433.milc	8	3479	21.1	3477	21.1	3476	21.1	8	3492	21.0	3499	21.0	3497	21.0
434.zeusmp	8	1161	62.7	1153	63.1	1147	63.5	8	1168	62.3	1159	62.8	1158	62.9
435.gromacs	8	452	126	453	126	453	126	8	438	131	437	131	438	130
436.cactusADM	8	1380	69.3	1375	69.5	1371	69.7	8	1383	69.1	1384	69.1	1387	68.9
437.leslie3d	8	3241	23.2	3250	23.1	3240	23.2	8	3259	23.1	3247	23.2	3236	23.2
444.namd	8	574	112	576	111	575	112	8	584	110	584	110	584	110
447.dealII	8	718	127	718	127	728	126	8	720	127	717	128	734	125
450.soplex	8	2332	28.6	2333	28.6	2329	28.6	8	2334	28.6	2337	28.6	2336	28.6
453.povray	8	290	147	289	147	289	147	8	222	192	222	192	222	192
454.calculix	8	641	103	642	103	641	103	8	626	105	621	106	626	105
459.GemsFDTD	8	4041	21.0	4040	21.0	4031	21.1	8	4048	21.0	4056	20.9	4046	21.0
465.tonto	8	1008	78.1	1010	78.0	1020	77.2	8	995	79.1	977	80.5	992	79.4
470.lbm	8	4575	24.0	4559	24.1	4559	24.1	8	4559	24.1	4566	24.1	4559	24.1
481.wrf	8	1943	46.0	1940	46.1	1947	45.9	8	1949	45.8	1940	46.1	1948	45.9
482.sphinx3	8	3684	42.3	3675	42.4	3679	42.4	8	3668	42.5	3671	42.5	3668	42.5

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'

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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