



SPEC® CFP2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor 5160,3.00GHz)

SPECfp®2006 = 15.6

SPECfp_base2006 = 15.4

CPU2006 license: 20

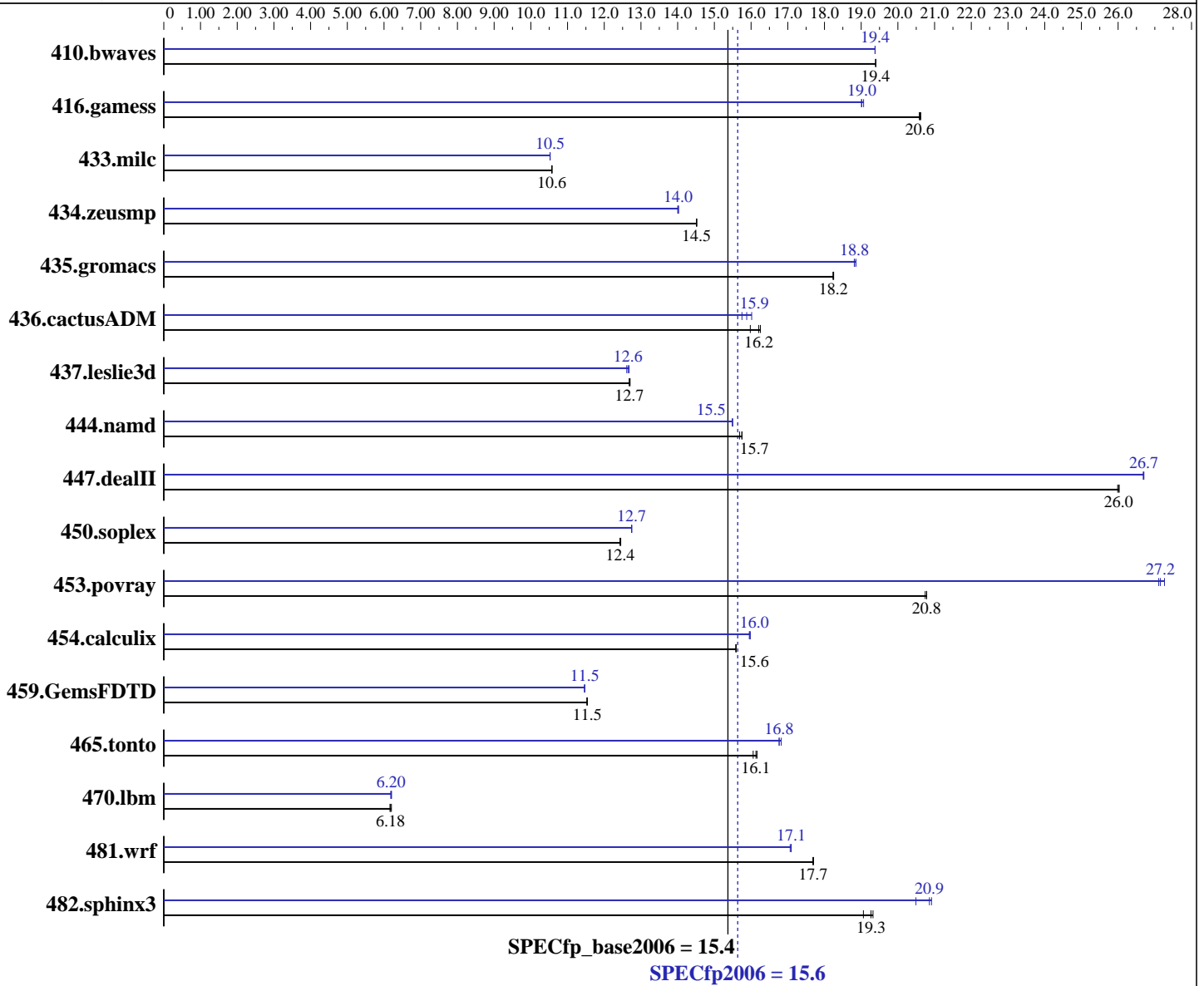
Test sponsor: Bull SAS

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: 1 core, 1 chip, 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	<u>701</u>	<u>19.4</u>	701	19.4	701	19.4	<u>701</u>	<u>19.4</u>	701	19.4	701	19.4
416.gamess	949	20.6	<u>950</u>	<u>20.6</u>	951	20.6	1030	19.0	<u>1030</u>	<u>19.0</u>	1027	19.1
433.milc	869	10.6	868	10.6	<u>868</u>	<u>10.6</u>	<u>872</u>	<u>10.5</u>	872	10.5	872	10.5
434.zeusmp	<u>627</u>	<u>14.5</u>	627	14.5	627	14.5	<u>649</u>	<u>14.0</u>	649	14.0	650	14.0
435.gromacs	391	18.3	<u>391</u>	<u>18.2</u>	392	18.2	380	18.8	<u>379</u>	<u>18.8</u>	379	18.9
436.cactusADM	735	16.3	<u>737</u>	<u>16.2</u>	748	16.0	759	15.8	<u>752</u>	<u>15.9</u>	746	16.0
437.leslie3d	741	12.7	<u>741</u>	<u>12.7</u>	740	12.7	741	12.7	<u>743</u>	<u>12.6</u>	745	12.6
444.namd	509	15.8	<u>509</u>	<u>15.7</u>	511	15.7	<u>518</u>	<u>15.5</u>	518	15.5	518	15.5
447.dealII	439	26.0	440	26.0	<u>440</u>	<u>26.0</u>	429	26.7	428	26.7	<u>428</u>	<u>26.7</u>
450.soplex	<u>671</u>	<u>12.4</u>	671	12.4	670	12.4	654	12.7	<u>654</u>	<u>12.7</u>	654	12.7
453.povray	<u>256</u>	<u>20.8</u>	256	20.7	256	20.8	<u>196</u>	<u>27.2</u>	196	27.1	195	27.3
454.calculix	529	15.6	<u>529</u>	<u>15.6</u>	529	15.6	516	16.0	<u>517</u>	<u>16.0</u>	517	16.0
459.GemsFDTD	921	11.5	<u>920</u>	<u>11.5</u>	919	11.5	926	11.5	<u>925</u>	<u>11.5</u>	925	11.5
465.tonto	609	16.2	<u>610</u>	<u>16.1</u>	613	16.1	585	16.8	<u>587</u>	<u>16.8</u>	587	16.8
470.lbm	2216	6.20	2230	6.16	<u>2224</u>	<u>6.18</u>	2214	6.21	<u>2218</u>	<u>6.20</u>	2222	6.18
481.wrf	<u>631</u>	<u>17.7</u>	631	17.7	632	17.7	653	17.1	655	17.1	<u>653</u>	<u>17.1</u>
482.sphinx3	1009	19.3	1023	19.1	<u>1012</u>	<u>19.3</u>	932	20.9	<u>934</u>	<u>20.9</u>	951	20.5

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'

system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in menu.lst

/usr/bin/taskset utility used to bind CPU(s) to processes

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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