



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5150,2.66GHz)

SPECfp[®]2006 = 14.6

SPECfp_base2006 = 14.3

CPU2006 license: 20

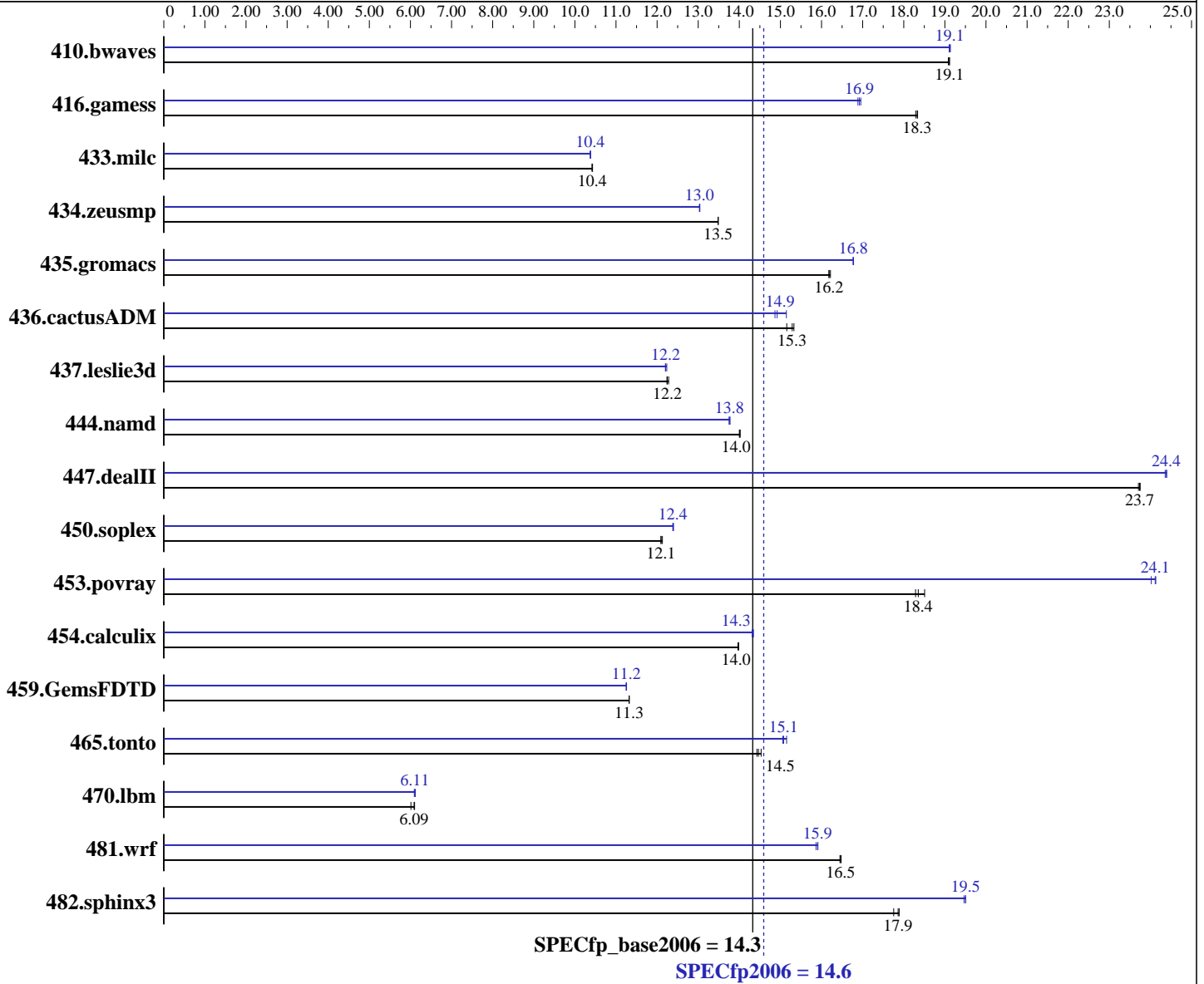
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5150
 CPU Characteristics: 2.66 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2666
 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	<u>711</u>	<u>19.1</u>	712	19.1	711	19.1	711	19.1	<u>711</u>	<u>19.1</u>	710	19.1
416.gamess	1070	18.3	<u>1068</u>	<u>18.3</u>	1068	18.3	1155	17.0	1160	16.9	<u>1157</u>	<u>16.9</u>
433.milc	881	10.4	<u>881</u>	<u>10.4</u>	880	10.4	<u>885</u>	<u>10.4</u>	885	10.4	884	10.4
434.zeusmp	675	13.5	675	13.5	<u>675</u>	<u>13.5</u>	698	13.0	<u>698</u>	<u>13.0</u>	698	13.0
435.gromacs	440	16.2	441	16.2	<u>441</u>	<u>16.2</u>	<u>426</u>	<u>16.8</u>	426	16.8	426	16.8
436.cactusADM	780	15.3	<u>782</u>	<u>15.3</u>	789	15.2	804	14.9	789	15.1	<u>801</u>	<u>14.9</u>
437.leslie3d	768	12.2	<u>767</u>	<u>12.2</u>	765	12.3	<u>770</u>	<u>12.2</u>	770	12.2	768	12.2
444.namd	572	14.0	<u>572</u>	<u>14.0</u>	573	14.0	582	13.8	<u>583</u>	<u>13.8</u>	583	13.8
447.dealII	482	23.8	483	23.7	<u>482</u>	<u>23.7</u>	469	24.4	<u>469</u>	<u>24.4</u>	470	24.4
450.soplex	<u>690</u>	<u>12.1</u>	690	12.1	688	12.1	674	12.4	673	12.4	<u>673</u>	<u>12.4</u>
453.povray	<u>290</u>	<u>18.4</u>	287	18.5	291	18.3	<u>221</u>	<u>24.1</u>	220	24.1	221	24.0
454.calculix	590	14.0	<u>590</u>	<u>14.0</u>	591	14.0	575	14.3	<u>575</u>	<u>14.3</u>	576	14.3
459.GemsFDTD	<u>937</u>	<u>11.3</u>	937	11.3	937	11.3	<u>943</u>	<u>11.2</u>	943	11.2	943	11.3
465.tonto	677	14.5	682	14.4	<u>680</u>	<u>14.5</u>	649	15.2	654	15.1	<u>653</u>	<u>15.1</u>
470.lbm	2285	6.01	2252	6.10	<u>2257</u>	<u>6.09</u>	2246	6.12	<u>2250</u>	<u>6.11</u>	2255	6.09
481.wrf	678	16.5	<u>678</u>	<u>16.5</u>	679	16.4	702	15.9	704	15.9	<u>702</u>	<u>15.9</u>
482.sphinx3	1098	17.8	<u>1091</u>	<u>17.9</u>	1090	17.9	999	19.5	<u>999</u>	<u>19.5</u>	1001	19.5

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'
'/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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