



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale T810
(2.4 GHz, Intel Xeon processor X3220)

SPECfp[®]_rate2006 = 34.4

SPECfp_rate_base2006 = 33.9

CPU2006 license: 20

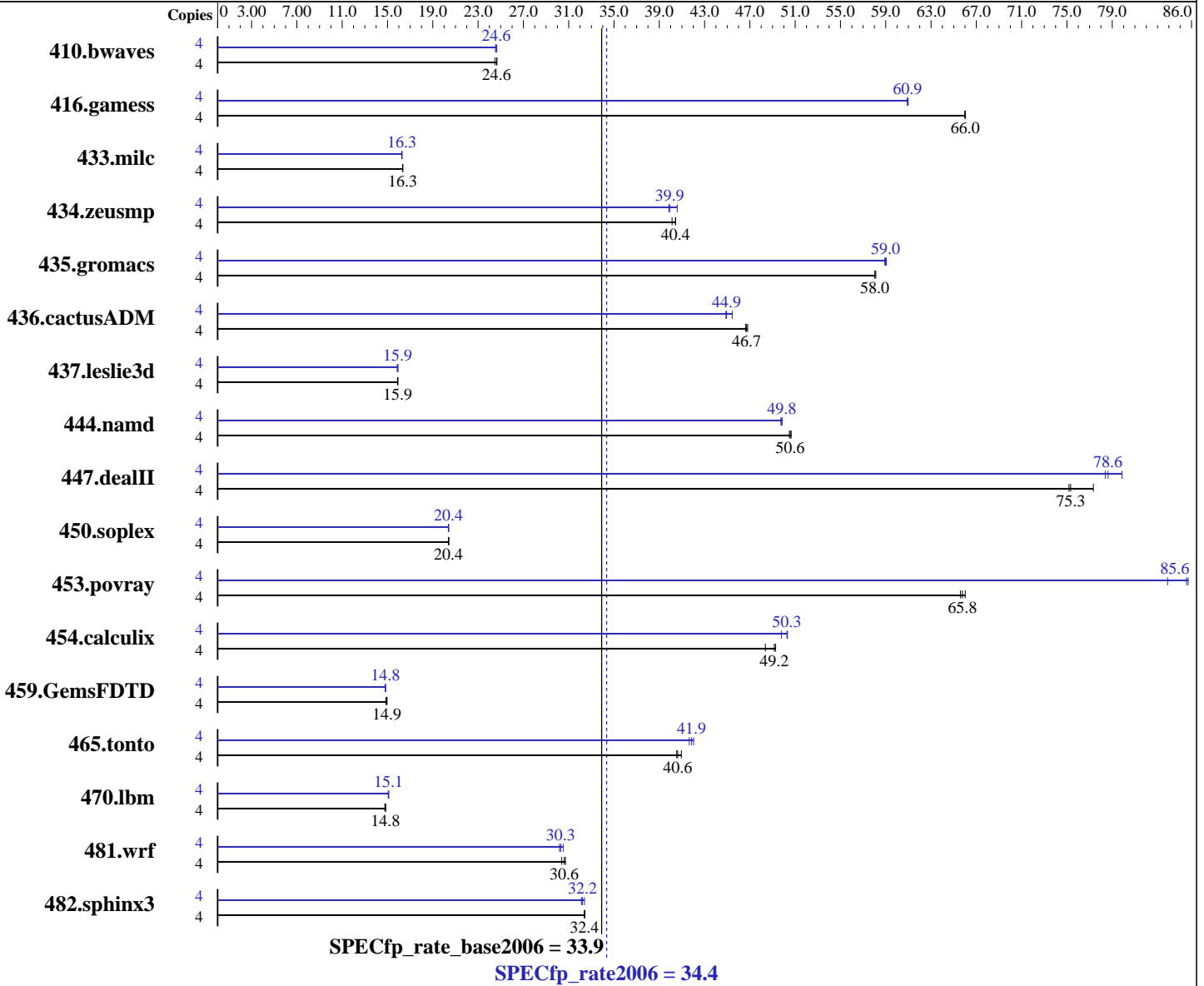
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Feb-2007

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon X3220
 CPU Characteristics: 2.4GHz, 2x4 MB L2 shared, 1066 MHz system bus
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 chip
 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: 8 GB (4x2 GB PC2-5300 CL5)
Disk Subsystem: 2x73 GB 10k SAS
Other Hardware: None

File System: ext2
System State: Multi-user
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	2219	24.5	<u>2206</u>	<u>24.6</u>	2204	24.7	4	2205	24.7	<u>2210</u>	<u>24.6</u>	2215	24.5
416.gamess	4	1186	66.0	1187	66.0	<u>1186</u>	<u>66.0</u>	4	<u>1286</u>	<u>60.9</u>	1284	61.0	1286	60.9
433.milc	4	2245	16.4	2248	16.3	<u>2247</u>	<u>16.3</u>	4	2255	16.3	<u>2256</u>	<u>16.3</u>	2259	16.3
434.zeusmp	4	907	40.1	<u>900</u>	<u>40.4</u>	900	40.4	4	914	39.8	897	40.6	<u>912</u>	<u>39.9</u>
435.gromacs	4	491	58.1	492	58.0	<u>492</u>	<u>58.0</u>	4	485	58.9	<u>484</u>	<u>59.0</u>	484	59.1
436.cactusADM	4	1021	46.8	1025	46.6	<u>1023</u>	<u>46.7</u>	4	1052	45.4	1065	44.9	<u>1064</u>	<u>44.9</u>
437.leslie3d	4	2362	15.9	<u>2364</u>	<u>15.9</u>	2367	15.9	4	2371	15.9	2362	15.9	<u>2363</u>	<u>15.9</u>
444.namd	4	633	50.7	<u>635</u>	<u>50.6</u>	635	50.5	4	644	49.8	645	49.7	<u>644</u>	<u>49.8</u>
447.dealII	4	<u>607</u>	<u>75.3</u>	592	77.3	609	75.2	4	573	79.9	584	78.4	<u>582</u>	<u>78.6</u>
450.soplex	4	1635	20.4	1636	20.4	<u>1635</u>	<u>20.4</u>	4	1636	20.4	1635	20.4	<u>1636</u>	<u>20.4</u>
453.povray	4	<u>324</u>	<u>65.8</u>	322	66.0	324	65.6	4	<u>249</u>	<u>85.6</u>	248	85.7	254	83.9
454.calculix	4	<u>671</u>	<u>49.2</u>	670	49.3	682	48.4	4	<u>656</u>	<u>50.3</u>	656	50.3	663	49.8
459.GemsFDTD	4	2837	15.0	<u>2841</u>	<u>14.9</u>	2855	14.9	4	2861	14.8	<u>2862</u>	<u>14.8</u>	2868	14.8
465.tonto	4	971	40.5	<u>969</u>	<u>40.6</u>	961	40.9	4	936	42.0	945	41.6	<u>940</u>	<u>41.9</u>
470.lbm	4	3722	14.8	<u>3708</u>	<u>14.8</u>	3703	14.8	4	3649	15.1	3639	15.1	<u>3639</u>	<u>15.1</u>
481.wrf	4	<u>1460</u>	<u>30.6</u>	1455	30.7	1470	30.4	4	1480	30.2	1464	30.5	<u>1475</u>	<u>30.3</u>
482.sphinx3	4	2404	32.4	2408	32.4	<u>2407</u>	<u>32.4</u>	4	2407	32.4	<u>2420</u>	<u>32.2</u>	2427	32.1

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'

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

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Base Compiler Invocation (Continued)

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

Peak Compiler Invocation

C benchmarks:
icc
C++ benchmarks:
icpc

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Peak Compiler Invocation (Continued)

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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