



SPEC[®] CFP2006 Result

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Bull SAS

SPECfp[®]_rate2006 = 44.3

NovaScale R480 (3.0 GHz, Intel Xeon 7120M)

SPECfp_rate_base2006 = 43.7

CPU2006 license: 20

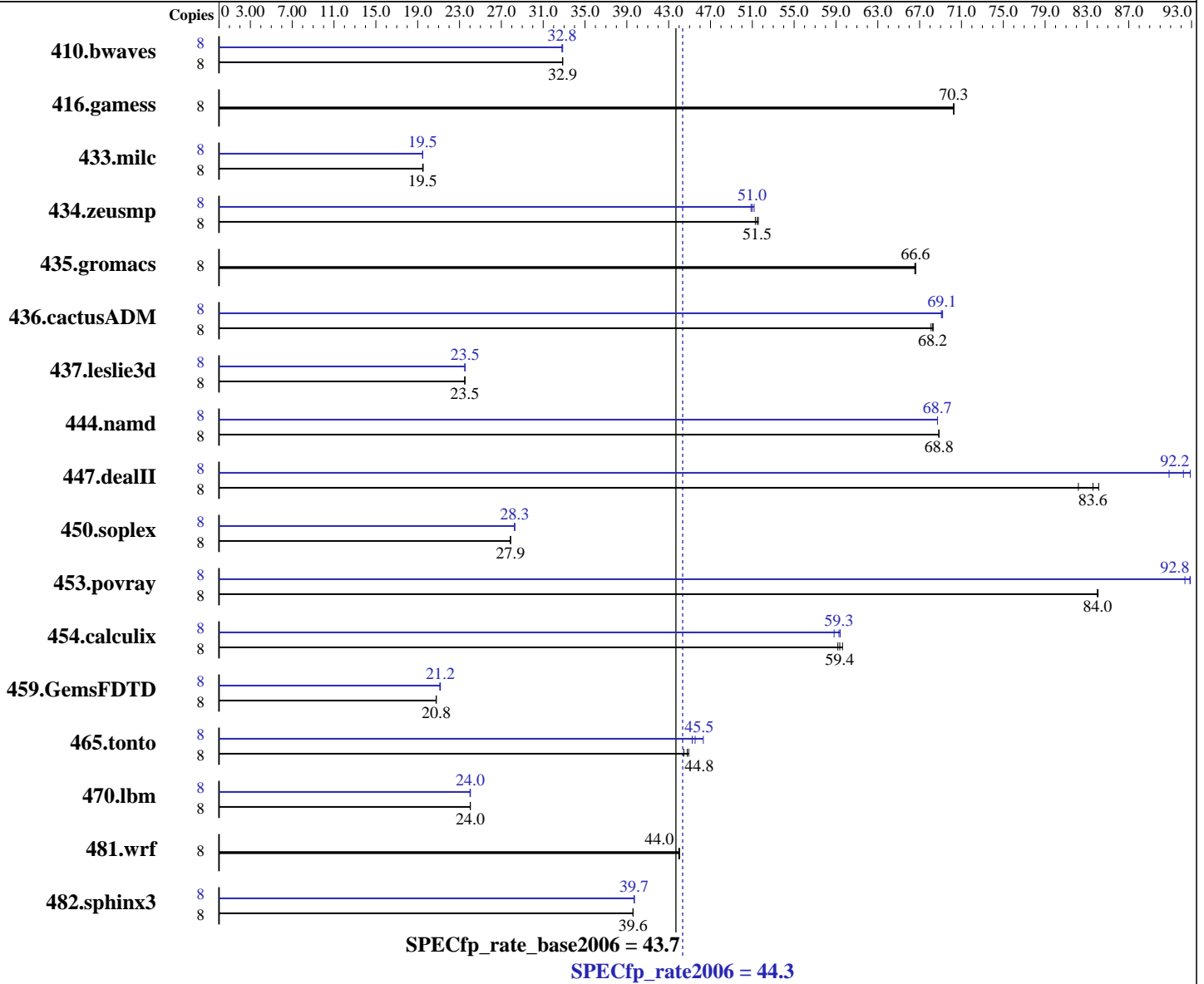
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 7120M
 CPU Characteristics: 3.0 GHz, 800 MHz bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
 CPU(s) orderable: 1,2,4 chips
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core

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Software

Operating System: Windows Server 2003 Enterprise X64 Edition
 Compiler: Intel C++ Compiler for IA32 version 9.1
 Package ID W_CC_C_9.1.033 Build no 20061103Z
 Intel Fortran Compiler for IA32 version 9.1
 Package ID W_FC_C_9.1.033 Build no 20061103Z
 Microsoft Visual Studio .NET 2003 (lib & linker)
 Auto Parallel: No
 File System: NTFS
 System State: Default

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L3 Cache: 4 MB I+D on chip per chip
Other Cache: None
Memory: 32 GB (16x2 GB) DDR2 400 PC2-3200R-333
Disk Subsystem: 2x36 GB SAS 15000 RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: MicroQuill SmartHeap Library 8.0 (shlW32M.lib)

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3309	32.9	3308	32.9	3308	32.9	8	3308	32.9	3314	32.8	3313	32.8
416.gamess	8	2230	70.3	2229	70.3	2230	70.3	8	2230	70.3	2229	70.3	2230	70.3
433.milc	8	3760	19.5	3769	19.5	3771	19.5	8	3769	19.5	3771	19.5	3771	19.5
434.zeusmp	8	1419	51.3	1414	51.5	1411	51.6	8	1423	51.2	1428	51.0	1431	50.9
435.gromacs	8	858	66.5	857	66.6	858	66.6	8	858	66.5	857	66.6	858	66.6
436.cactusADM	8	1401	68.2	1400	68.3	1404	68.1	8	1382	69.2	1384	69.1	1383	69.1
437.leslie3d	8	3199	23.5	3199	23.5	3197	23.5	8	3198	23.5	3197	23.5	3197	23.5
444.namd	8	932	68.8	932	68.8	932	68.8	8	934	68.7	934	68.7	934	68.7
447.dealII	8	1088	84.1	1114	82.2	1095	83.6	8	1007	90.9	992	92.2	985	92.9
450.soplex	8	2393	27.9	2393	27.9	2394	27.9	8	2361	28.3	2361	28.3	2359	28.3
453.povray	8	507	84.0	507	84.0	506	84.1	8	461	92.4	458	92.9	458	92.8
454.calculix	8	1112	59.4	1115	59.2	1107	59.6	8	1122	58.8	1113	59.3	1111	59.4
459.GemsFDTD	8	4087	20.8	4089	20.8	4084	20.8	8	4020	21.1	4009	21.2	4011	21.2
465.tonto	8	1753	44.9	1758	44.8	1771	44.5	8	1700	46.3	1729	45.5	1740	45.2
470.lbm	8	4575	24.0	4573	24.0	4575	24.0	8	4573	24.0	4573	24.0	4580	24.0
481.wrf	8	2029	44.0	2032	44.0	2030	44.0	8	2029	44.0	2032	44.0	2030	44.0
482.sphinx3	8	3938	39.6	3937	39.6	3938	39.6	8	3925	39.7	3928	39.7	3927	39.7

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Other Configuration Notes

Hyper-Threading technology was disabled in the Bios.

The NovaScale T880 and the NovaScale R480 models are electronically equivalent.

The results have been measured on a NovaScale R480 model.



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Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99
C++ benchmarks:
icl -Qvc7.1
Fortran benchmarks:
ifort
Benchmarks using both Fortran and C:
icl -Qvc7.1 -Qc99 ifort

Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
-DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:
-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE
C++ benchmarks:
-fast -Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE
Fortran benchmarks:
-fast /F950000000 -link /FORCE:MULTIPLE
Benchmarks using both Fortran and C:
-fast /F950000000 -link /FORCE:MULTIPLE

Peak Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99
C++ benchmarks:
icl -Qvc7.1

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Peak Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort

Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
 444.namd: -TP
 447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
 -DBOOST_NO_INTRINSIC_WCHAR_T
 453.povray: -DSPEC_CPU_WINDOWS_ICL
 454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
 481.wrf: -DSPEC_CPU_WINDOWS_ICL

Peak Optimization Flags

C benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

416.gamess: basepeak = yes

434.zeusmp: Same as 410.bwaves

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: Same as 410.bwaves

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

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Peak Optimization Flags (Continued)

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

454.calculix: Same as 436.cactusADM

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/flags.20090714.00.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/flags.20090714.00.xml>

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For other inquiries, please contact webmaster@spec.org.

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