



SPEC[®] CFP2006 Result

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Bull SAS

SPECfp[®]2006 = 10.6

NovaScale T880 (3.20 GHz, Intel Xeon 7130M)

SPECfp_base2006 = 10.4

CPU2006 license: 20

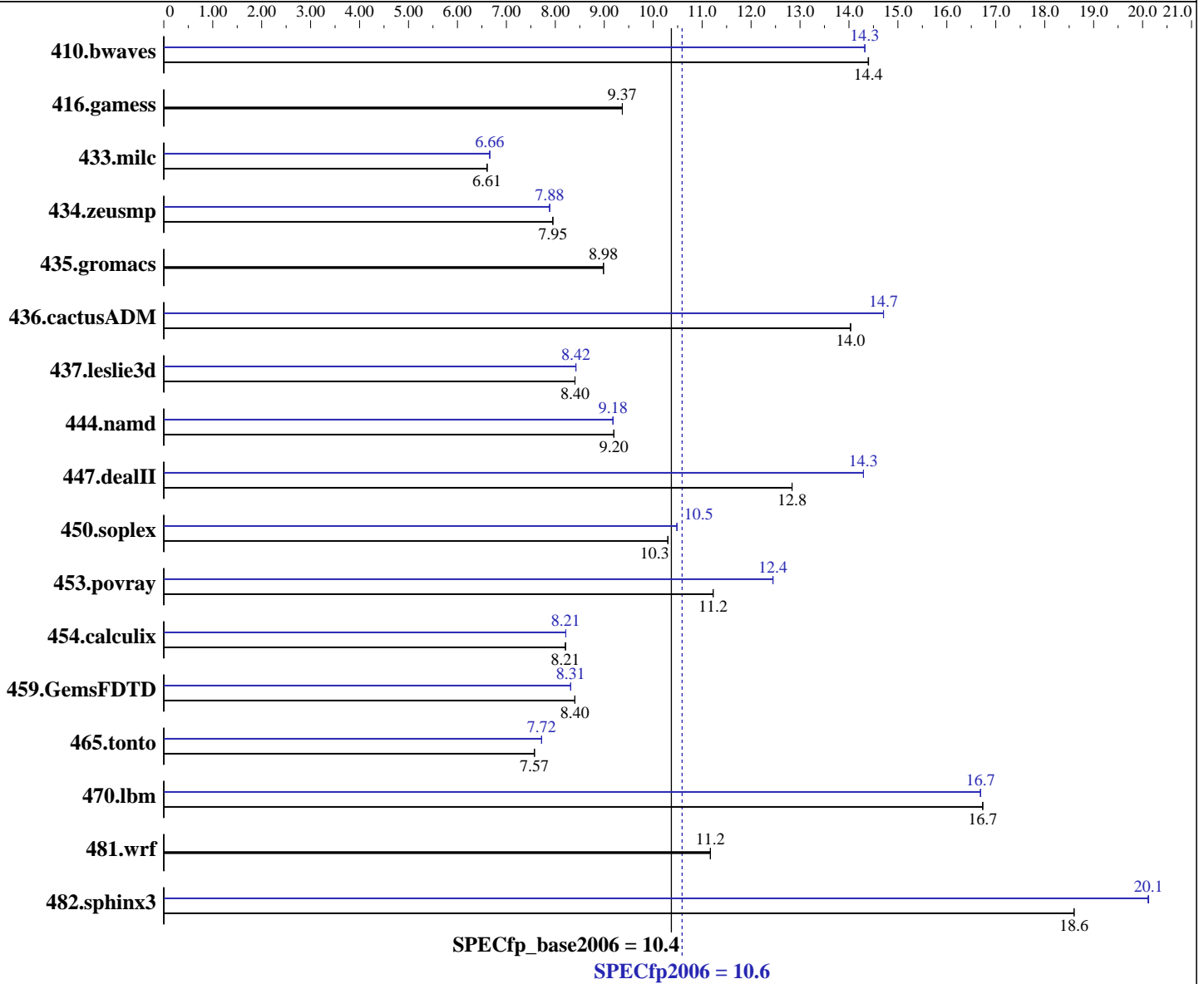
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 7130M
 CPU Characteristics: 3.2GHz, 800MHz bus
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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 9.1 for 32-bit
 Build 20061103Z Package ID: W_CC_C_9.1.033
 Intel Fortran Compiler 9.1 for 32-bit
 Build 20061103Z Package ID: W_FC_C_9.1.033
 Microsoft Visual Studio .NET 2003 (libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default

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L3 Cache: 8 MB I+D on chip per chip
Other Cache: None
Memory: 32 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem: 2x36GB 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	944	14.4	944	14.4	944	14.4	949	14.3	949	14.3	949	14.3
416.gamess	2090	9.37	2090	9.37	2090	9.37	2090	9.37	2090	9.37	2090	9.37
433.milc	1389	6.61	1390	6.61	1390	6.61	1378	6.66	1378	6.66	1379	6.66
434.zeusmp	1145	7.95	1145	7.95	1145	7.95	1154	7.88	1154	7.88	1154	7.88
435.gromacs	795	8.98	795	8.98	795	8.98	795	8.98	795	8.98	795	8.98
436.cactusADM	852	14.0	852	14.0	852	14.0	813	14.7	813	14.7	813	14.7
437.leslie3d	1119	8.40	1119	8.40	1119	8.40	1116	8.42	1116	8.42	1116	8.42
444.namd	872	9.20	872	9.20	872	9.20	874	9.18	874	9.18	874	9.18
447.dealII	891	12.8	891	12.8	891	12.8	800	14.3	800	14.3	800	14.3
450.soplex	810	10.3	810	10.3	810	10.3	795	10.5	795	10.5	795	10.5
453.povray	474	11.2	474	11.2	474	11.2	427	12.4	427	12.4	427	12.4
454.calculix	1005	8.21	1005	8.21	1005	8.21	1004	8.21	1004	8.21	1004	8.21
459.GemsFDTD	1263	8.40	1263	8.40	1263	8.40	1276	8.31	1276	8.31	1276	8.31
465.tonto	1299	7.57	1299	7.57	1299	7.57	1275	7.72	1275	7.72	1274	7.72
470.lbm	821	16.7	821	16.7	821	16.7	823	16.7	823	16.7	823	16.7
481.wrf	1000	11.2	1000	11.2	1000	11.2	1000	11.2	1000	11.2	1000	11.2
482.sphinx3	1048	18.6	1048	18.6	1048	18.6	968	20.1	969	20.1	969	20.1

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

General Notes

Other Configuration Notes

/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

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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