



SPEC[®] CFP2006 Result

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Bull SAS

SPECfp[®]2006 = **9.76**

NovaScale T840 (1.86 GHz, Intel Xeon E5320)

SPECfp_base2006 = **9.57**

CPU2006 license: 20

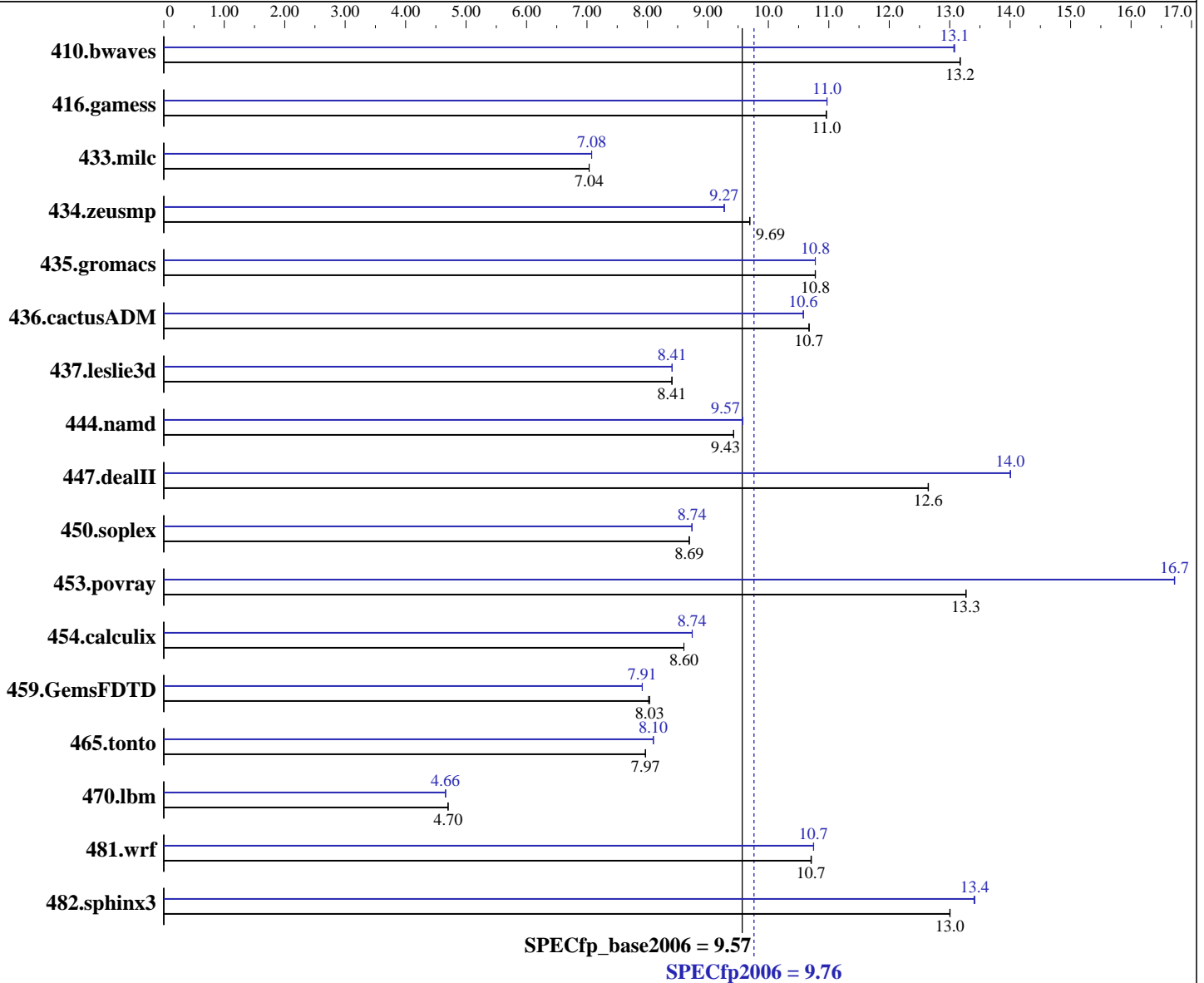
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Jan-2007

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 8MB L2, 1066MHz bus
 CPU MHz: 1860
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 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: Windows Server 2003 Enterprise X64 Edition
 Compiler: Intel C++ Compiler 9.1.033 for 32-bit apps.
 Build 20061103Z Package ID: W_CC_C_9.1.033
 Intel Fortran Compiler 9.1.033 for 32-bit app.
 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: None
Other Cache: None
Memory: 8 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem: 3x73GB SCSI 15000 rpm
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: MicroQuill SmartHeap Library 8.0 (shIW32M.lib)

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	1032	13.2	1032	13.2	<u>1032</u>	<u>13.2</u>	<u>1039</u>	<u>13.1</u>	1040	13.1	1039	13.1
416.gamess	1787	11.0	1786	11.0	<u>1786</u>	<u>11.0</u>	1785	11.0	1785	11.0	<u>1785</u>	<u>11.0</u>
433.milc	1305	7.04	<u>1305</u>	<u>7.04</u>	1305	7.04	1297	7.08	<u>1297</u>	<u>7.08</u>	1297	7.08
434.zeusmp	939	9.69	939	9.69	<u>939</u>	<u>9.69</u>	982	9.27	982	9.27	<u>982</u>	<u>9.27</u>
435.gromacs	663	10.8	662	10.8	<u>662</u>	<u>10.8</u>	662	10.8	663	10.8	<u>663</u>	<u>10.8</u>
436.cactusADM	1120	10.7	<u>1120</u>	<u>10.7</u>	1119	10.7	1130	10.6	1129	10.6	<u>1130</u>	<u>10.6</u>
437.leslie3d	1118	8.41	<u>1118</u>	<u>8.41</u>	1118	8.40	1118	8.41	1118	8.41	<u>1118</u>	<u>8.41</u>
444.namd	851	9.43	<u>851</u>	<u>9.43</u>	851	9.43	838	9.57	838	9.57	<u>838</u>	<u>9.57</u>
447.dealII	905	12.6	<u>905</u>	<u>12.6</u>	904	12.6	817	14.0	<u>817</u>	<u>14.0</u>	817	14.0
450.soplex	959	8.69	960	8.69	<u>960</u>	<u>8.69</u>	954	8.74	<u>955</u>	<u>8.74</u>	955	8.73
453.povray	401	13.3	401	13.3	<u>401</u>	<u>13.3</u>	318	16.7	<u>318</u>	<u>16.7</u>	318	16.7
454.calculix	959	8.60	<u>959</u>	<u>8.60</u>	959	8.60	944	8.74	944	8.74	<u>944</u>	<u>8.74</u>
459.GemsFDTD	1323	8.02	<u>1321</u>	<u>8.03</u>	1320	8.04	1341	7.91	1341	7.91	<u>1341</u>	<u>7.91</u>
465.tonto	1235	7.97	<u>1235</u>	<u>7.97</u>	1235	7.97	1215	8.10	<u>1215</u>	<u>8.10</u>	1215	8.10
470.lbm	<u>2922</u>	<u>4.70</u>	2922	4.70	2922	4.70	2948	4.66	2949	4.66	<u>2949</u>	<u>4.66</u>
481.wrf	1043	10.7	1043	10.7	<u>1043</u>	<u>10.7</u>	<u>1039</u>	<u>10.7</u>	1039	10.7	1039	10.7
482.sphinx3	1498	13.0	<u>1499</u>	<u>13.0</u>	1499	13.0	<u>1453</u>	<u>13.4</u>	1454	13.4	<u>1453</u>	<u>13.4</u>

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



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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: -fast /F950000000 -link /FORCE:MULTIPLE

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: -fast /F950000000 -link /FORCE:MULTIPLE

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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: Same as 435.gromacs

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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