SPEC® CFP2006 Result

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Bull SAS

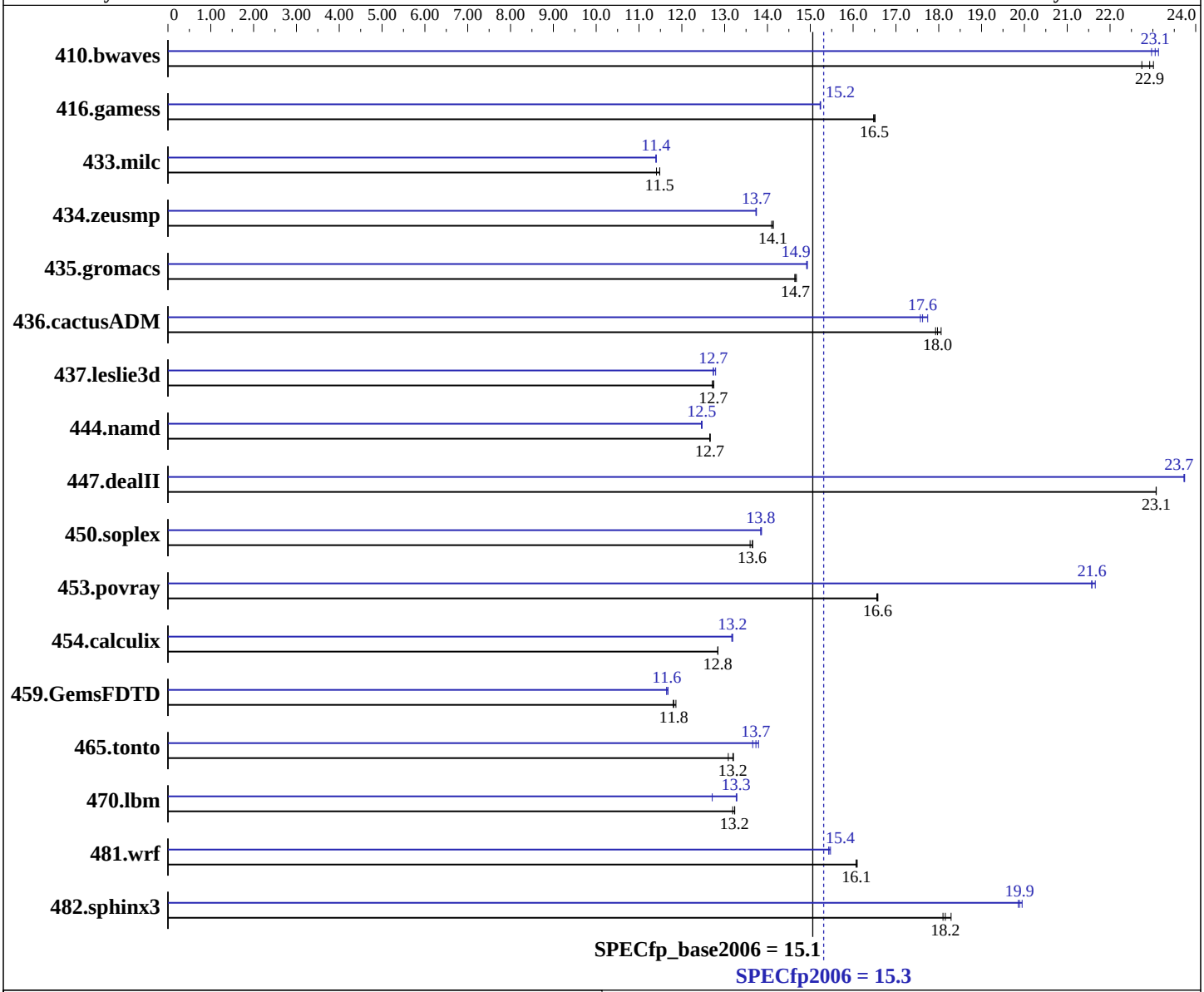
NovaScale T810
(2.4 GHz, Intel Xeon processor X3220)

SPECfp®2006 = 15.3

SPECfp_base2006 = 15.1

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:	1 core, 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	File System:	ext2
Other Cache:	None	System State:	Multi-user
Memory:	8 GB (4x2 GB PC2-5300 CL5)	Base Pointers:	64-bit
Disk Subsystem:	2x73 GB 15k SAS	Peak Pointers:	32/64-bit
Other Hardware:	None	Other Software:	None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	598	22.7	591	23.0	**593**	**22.9**	**589**	**23.1**	588	23.1	592	23.0
416.gamess	1186	16.5	**1187**	**16.5**	1188	16.5	**1285**	**15.2**	1285	15.2	1286	15.2
433.milc	805	11.4	**799**	**11.5**	799	11.5	805	11.4	805	11.4	**805**	**11.4**
434.zeusmp	646	14.1	**644**	**14.1**	644	14.1	663	13.7	662	13.7	**662**	**13.7**
435.gromacs	**487**	**14.7**	488	14.6	486	14.7	**478**	**14.9**	478	14.9	479	14.9
436.cactusADM	667	17.9	662	18.1	**665**	**18.0**	**678**	**17.6**	680	17.6	674	17.7
437.leslie3d	740	12.7	737	12.7	**738**	**12.7**	735	12.8	738	12.7	**738**	**12.7**
444.namd	**634**	**12.7**	634	12.7	633	12.7	**643**	**12.5**	643	12.5	644	12.5
447.dealII	496	23.1	496	23.1	**496**	**23.1**	482	23.7	**482**	**23.7**	482	23.7
450.soplex	613	13.6	611	13.7	**611**	**13.6**	602	13.9	**602**	**13.8**	602	13.8
453.povray	**321**	**16.6**	321	16.6	321	16.6	246	21.7	247	21.6	**247**	**21.6**
454.calculix	**642**	**12.8**	642	12.8	643	12.8	**626**	**13.2**	627	13.2	626	13.2
459.GemsFDTD	894	11.9	899	11.8	**898**	**11.8**	908	11.7	**911**	**11.6**	911	11.6
465.tonto	752	13.1	745	13.2	**746**	**13.2**	713	13.8	**717**	**13.7**	721	13.7
470.lbm	1042	13.2	**1038**	**13.2**	1038	13.2	1081	12.7	**1035**	**13.3**	1034	13.3
481.wrf	694	16.1	**695**	**16.1**	695	16.1	724	15.4	722	15.5	**724**	**15.4**
482.sphinx3	1066	18.3	1077	18.1	**1074**	**18.2**	977	19.9	982	19.9	**980**	**19.9**

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'
System was booted uniprocessor by setting "maxcpus=0"
kernel parameter in menu.lst
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

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Base Compiler Invocation (Continued)

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

Peak Compiler Invocation

C benchmarks:
icc

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Peak Compiler Invocation (Continued)

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.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:31:55 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 1 May 2007.