SPEC® CFP2006 Result

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Bull SAS

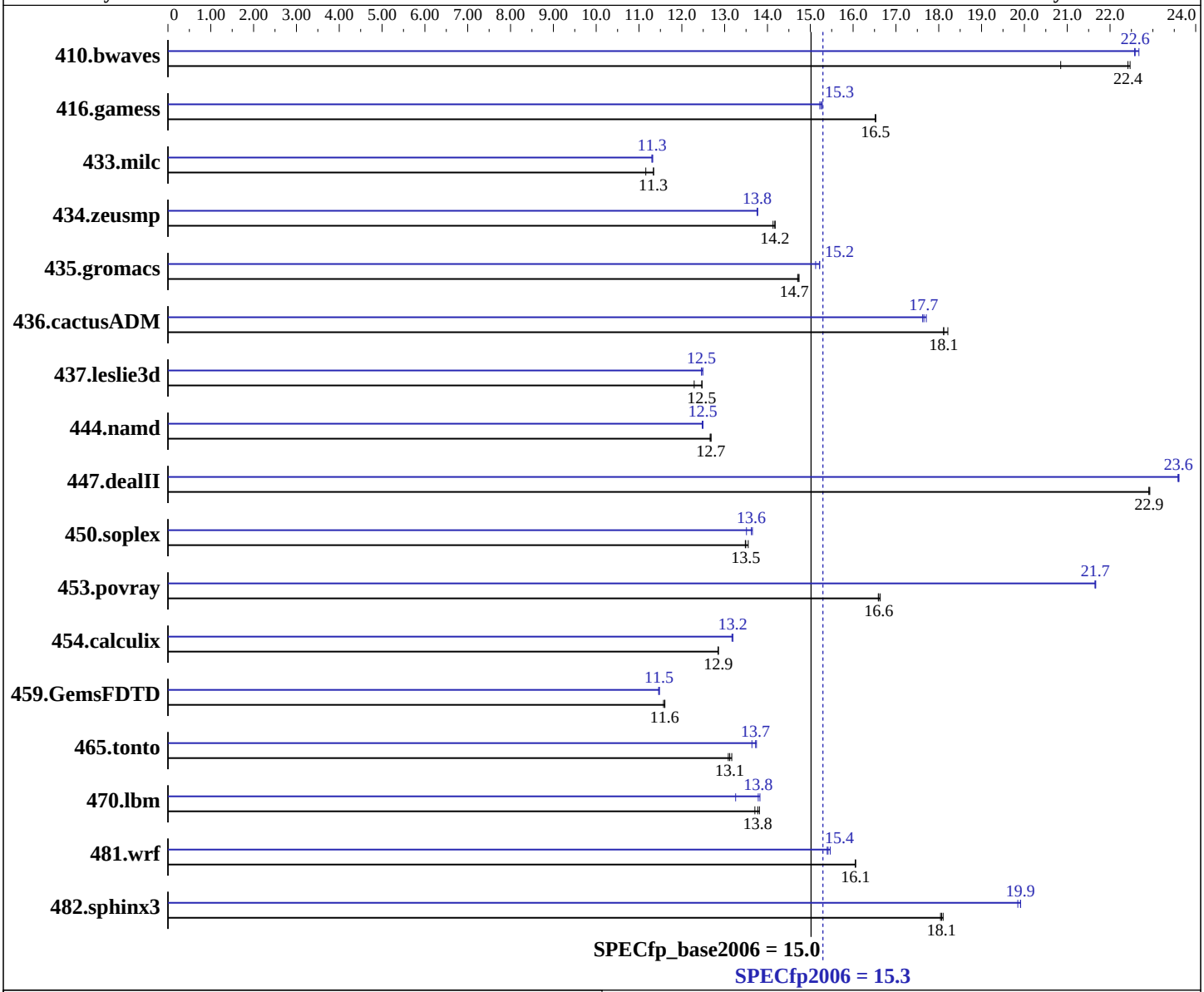
NovaScale T820
(Intel Xeon processor 3060, 2.40GHz)

SPECfp®2006 = 15.3

SPECfp_base2006 = 15.0

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: May-2007
Hardware Availability: Mar-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 3060
CPU Characteristics:	2.40 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

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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 run level 3
Memory:	4 GB (4x1 GB) PC2-4200E ECC CL4	Base Pointers:	64-bit
Disk Subsystem:	1x160 GB SATA2, 7200 RPM	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	652	20.8	605	22.5	**606**	**22.4**	602	22.6	**602**	**22.6**	599	22.7
416.gamess	1186	16.5	1185	16.5	**1185**	**16.5**	**1284**	**15.3**	1281	15.3	1286	15.2
433.milc	823	11.2	809	11.3	**810**	**11.3**	811	11.3	**812**	**11.3**	812	11.3
434.zeusmp	644	14.1	642	14.2	**642**	**14.2**	**661**	**13.8**	661	13.8	661	13.8
435.gromacs	486	14.7	**485**	**14.7**	484	14.7	469	15.2	472	15.1	**469**	**15.2**
436.cactusADM	**660**	**18.1**	656	18.2	660	18.1	**677**	**17.7**	678	17.6	675	17.7
437.leslie3d	765	12.3	**754**	**12.5**	754	12.5	752	12.5	754	12.5	**754**	**12.5**
444.namd	**633**	**12.7**	632	12.7	633	12.7	**642**	**12.5**	643	12.5	642	12.5
447.dealII	499	22.9	499	22.9	**499**	**22.9**	**485**	**23.6**	485	23.6	485	23.6
450.soplex	615	13.6	619	13.5	**618**	**13.5**	617	13.5	611	13.6	**612**	**13.6**
453.povray	320	16.6	321	16.6	**321**	**16.6**	**246**	**21.7**	246	21.6	246	21.7
454.calculix	642	12.9	**642**	**12.9**	642	12.8	**625**	**13.2**	625	13.2	626	13.2
459.GemsFDTD	917	11.6	914	11.6	**915**	**11.6**	926	11.5	924	11.5	**925**	**11.5**
465.tonto	**750**	**13.1**	747	13.2	752	13.1	722	13.6	716	13.7	**717**	**13.7**
470.lbm	1002	13.7	**997**	**13.8**	995	13.8	**997**	**13.8**	1036	13.3	994	13.8
481.wrf	**696**	**16.1**	696	16.1	696	16.1	**725**	**15.4**	726	15.4	722	15.5
482.sphinx3	**1079**	**18.1**	1077	18.1	1080	18.0	**979**	**19.9**	982	19.8	979	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

/usr/bin/taskset utility used to bind CPU(s) to processes
```

Base Compiler Invocation

C benchmarks:

```
icc
```

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc

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

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.

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