SPEC® CFP2006 Result

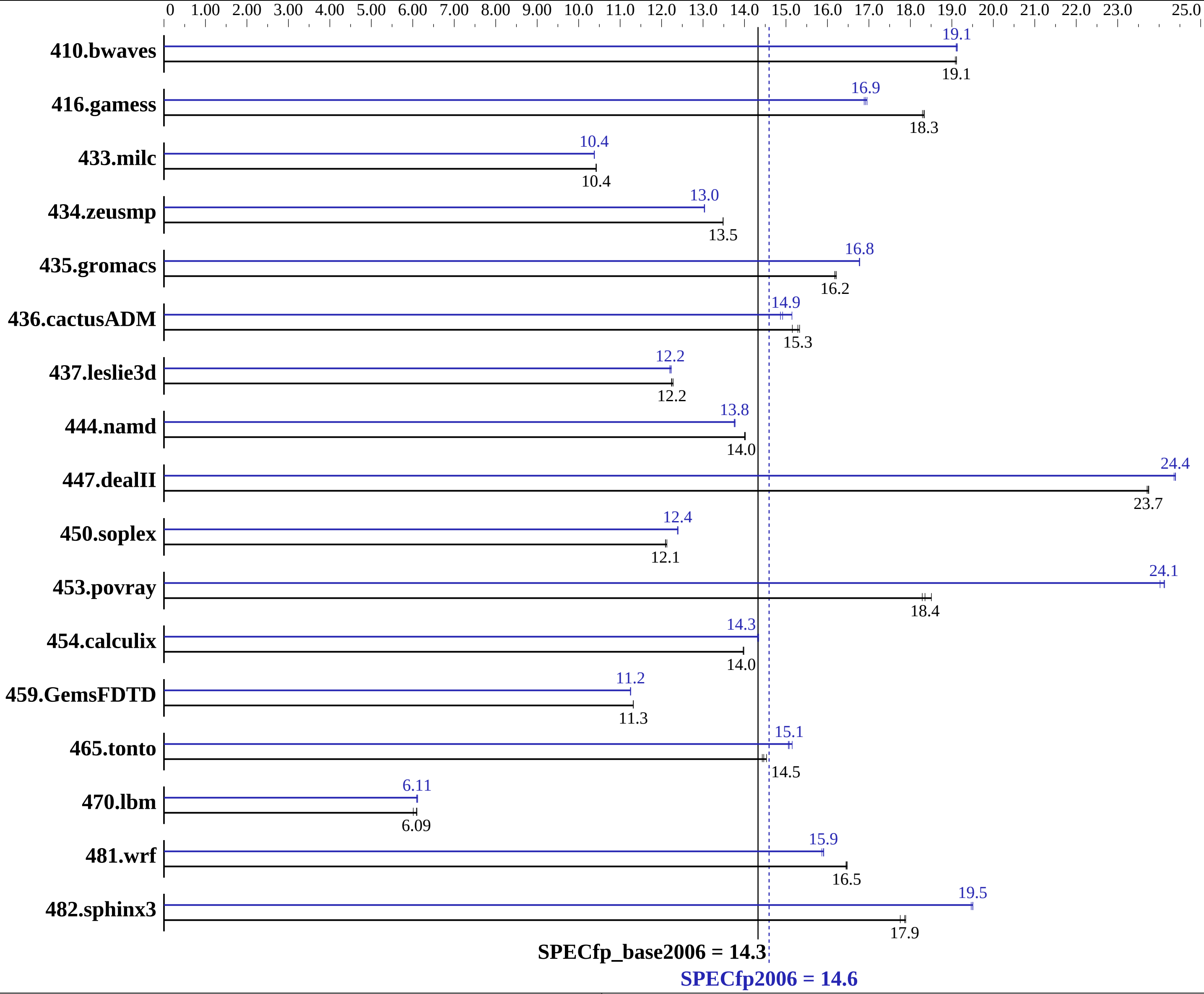
Bull SAS

NovaScale R460
(Intel Xeon processor 5150,2.66GHz)

SPECfp®2006 = 14.6

SPECfp_base2006 = 14.3

CPU2006 license:	20	**Test date:**	May-2007
Test sponsor:	Bull SAS	**Hardware Availability:**	Mar-2007
Tested by:	Bull SAS	**Software Availability:**	Dec-2006



Hardware

CPU Name:	Intel Xeon 5150
CPU Characteristics:	2.66 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1 to 2 chips
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:	24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5	Base Pointers:	64-bit
Disk Subsystem:	1x73 GB SAS, 15000 RPM	Peak Pointers:	32/64-bit
Other Hardware:	None	Other Software:	None

Results Table

	Base						Peak					
Benchmark	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	**711**	**19.1**	712	19.1	711	19.1	711	19.1	**711**	**19.1**	710	19.1
416.gamess	1070	18.3	**1068**	**18.3**	1068	18.3	1155	17.0	1160	16.9	**1157**	**16.9**
433.milc	881	10.4	**881**	**10.4**	880	10.4	**885**	**10.4**	885	10.4	884	10.4
434.zeusmp	675	13.5	675	13.5	**675**	**13.5**	698	13.0	**698**	**13.0**	698	13.0
435.gromacs	440	16.2	441	16.2	**441**	**16.2**	**426**	**16.8**	426	16.8	426	16.8
436.cactusADM	780	15.3	**782**	**15.3**	789	15.2	804	14.9	789	15.1	**801**	**14.9**
437.leslie3d	768	12.2	**767**	**12.2**	765	12.3	**770**	**12.2**	770	12.2	768	12.2
444.namd	572	14.0	**572**	**14.0**	573	14.0	582	13.8	**583**	**13.8**	583	13.8
447.dealII	482	23.8	483	23.7	**482**	**23.7**	469	24.4	**469**	**24.4**	470	24.4
450.soplex	**690**	**12.1**	690	12.1	688	12.1	674	12.4	673	12.4	**673**	**12.4**
453.povray	**290**	**18.4**	287	18.5	291	18.3	**221**	**24.1**	220	24.1	221	24.0
454.calculix	590	14.0	**590**	**14.0**	591	14.0	575	14.3	**575**	**14.3**	576	14.3
459.GemsFDTD	**937**	**11.3**	937	11.3	937	11.3	**943**	**11.2**	943	11.2	943	11.3
465.tonto	677	14.5	682	14.4	**680**	**14.5**	649	15.2	654	15.1	**653**	**15.1**
470.lbm	2285	6.01	2252	6.10	**2257**	**6.09**	2246	6.12	**2250**	**6.11**	2255	6.09
481.wrf	678	16.5	**678**	**16.5**	679	16.4	702	15.9	704	15.9	**702**	**15.9**
482.sphinx3	1098	17.8	**1091**	**17.9**	1090	17.9	999	19.5	**999**	**19.5**	1001	19.5

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'
'/usr/bin/taskset' used to bind processes to CPUs
```

General Notes

```
The NovaScale R440 and the NovaScale R460 models are
electronically equivalent.
The results have been measured on a NovaScale R460 model.
```

Base Compiler Invocation

C benchmarks:
`icc`

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`

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Software Availability: Dec-2006

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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