SPEC® CFP2006 Result

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Bull SAS

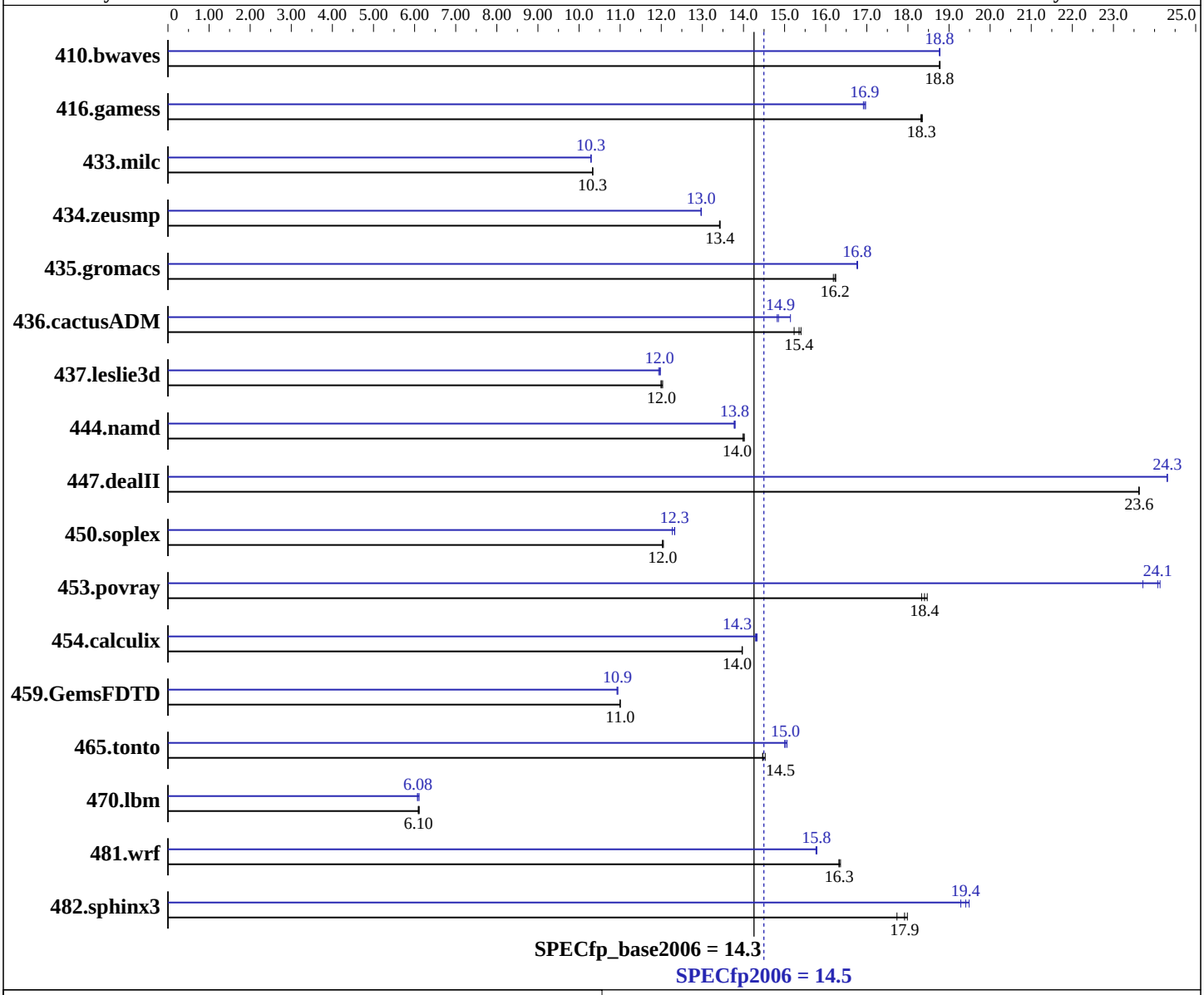
NovaScale R460
(Intel Xeon processor X5355,2.66GHz)

SPECfp®2006 = 14.5

SPECfp_base2006 = 14.3

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 X5355
CPU Characteristics:	2.66 GHz, 8 MB L2, 1333 MHz system bus
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 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:	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
Other Cache: None
Memory: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 10000 RPM
Other Hardware: None

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	724	18.8	724	18.8	**724**	**18.8**	**724**	**18.8**	724	18.8	724	18.8
416.gamess	1069	18.3	1067	18.4	**1068**	**18.3**	1154	17.0	**1155**	**16.9**	1157	16.9
433.milc	889	10.3	**889**	**10.3**	888	10.3	892	10.3	892	10.3	**892**	**10.3**
434.zeusmp	678	13.4	**678**	**13.4**	678	13.4	701	13.0	702	13.0	**702**	**13.0**
435.gromacs	**440**	**16.2**	440	16.2	441	16.2	426	16.8	**426**	**16.8**	426	16.8
436.cactusADM	**778**	**15.4**	785	15.2	776	15.4	**805**	**14.9**	789	15.1	806	14.8
437.leslie3d	**783**	**12.0**	784	12.0	781	12.0	785	12.0	**786**	**12.0**	787	11.9
444.namd	**573**	**14.0**	572	14.0	573	14.0	**582**	**13.8**	582	13.8	581	13.8
447.dealII	**484**	**23.6**	484	23.6	484	23.6	**471**	**24.3**	471	24.3	471	24.3
450.soplex	693	12.0	**693**	**12.0**	692	12.1	676	12.3	**677**	**12.3**	680	12.3
453.povray	290	18.3	288	18.5	**289**	**18.4**	220	24.1	224	23.7	**221**	**24.1**
454.calculix	**591**	**14.0**	590	14.0	591	14.0	576	14.3	**577**	**14.3**	577	14.3
459.GemsFDTD	**965**	**11.0**	965	11.0	964	11.0	970	10.9	971	10.9	**970**	**10.9**
465.tonto	677	14.5	680	14.5	**680**	**14.5**	653	15.1	**655**	**15.0**	656	15.0
470.lbm	2248	6.11	**2254**	**6.10**	2257	6.09	2249	6.11	**2258**	**6.08**	2264	6.07
481.wrf	684	16.3	**684**	**16.3**	683	16.4	**708**	**15.8**	709	15.8	708	15.8
482.sphinx3	1084	18.0	**1088**	**17.9**	1099	17.7	1000	19.5	**1004**	**19.4**	1011	19.3

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 R440 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

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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