SPEC® CFP2006 Result

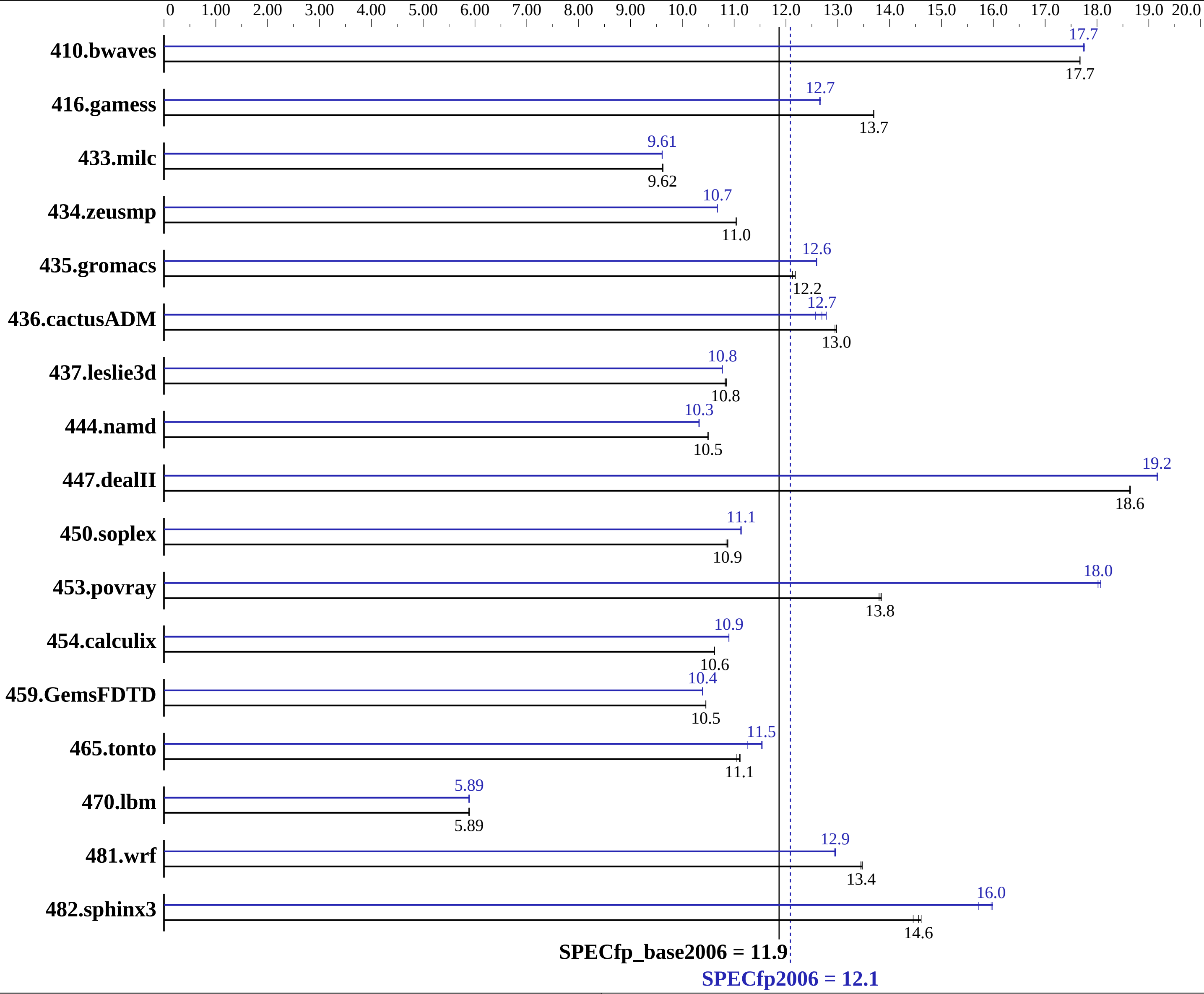
Bull SAS

NovaScale R460
(Intel Xeon processor E5335,2.00GHz)

SPECfp®2006 = 12.1

SPECfp_base2006 = 11.9

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



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	2.0GHz, 2x4 MB L2 shared, 1333 MHz system bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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 (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 73 GB SAS, 10000RPM
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	769	17.7	**769**	**17.7**	769	17.7	**766**	**17.7**	766	17.7	765	17.8
416.gamess	1430	13.7	**1430**	**13.7**	1429	13.7	1545	12.7	1548	12.6	**1547**	**12.7**
433.milc	953	9.63	**954**	**9.62**	955	9.62	**955**	**9.61**	955	9.61	955	9.61
434.zeusmp	**824**	**11.0**	825	11.0	824	11.0	852	10.7	**852**	**10.7**	852	10.7
435.gromacs	589	12.1	**586**	**12.2**	586	12.2	**567**	**12.6**	567	12.6	567	12.6
436.cactusADM	**921**	**13.0**	923	12.9	921	13.0	**942**	**12.7**	935	12.8	951	12.6
437.leslie3d	**868**	**10.8**	869	10.8	866	10.9	872	10.8	**872**	**10.8**	873	10.8
444.namd	764	10.5	764	10.5	**764**	**10.5**	776	10.3	**777**	**10.3**	777	10.3
447.dealII	**614**	**18.6**	614	18.6	614	18.6	**597**	**19.2**	597	19.2	597	19.2
450.soplex	769	10.8	**767**	**10.9**	766	10.9	750	11.1	749	11.1	**749**	**11.1**
453.povray	386	13.8	**385**	**13.8**	384	13.8	**295**	**18.0**	294	18.1	295	18.0
454.calculix	777	10.6	777	10.6	**777**	**10.6**	757	10.9	757	10.9	**757**	**10.9**
459.GemsFDTD	1015	10.5	**1015**	**10.5**	1015	10.5	1021	10.4	**1021**	**10.4**	1021	10.4
465.tonto	890	11.1	885	11.1	**886**	**11.1**	874	11.3	853	11.5	**854**	**11.5**
470.lbm	2332	5.89	2340	5.87	**2334**	**5.89**	2339	5.87	2332	5.89	**2334**	**5.89**
481.wrf	**830**	**13.4**	831	13.4	829	13.5	864	12.9	**863**	**12.9**	862	13.0
482.sphinx3	1334	14.6	**1339**	**14.6**	1348	14.5	1240	15.7	1219	16.0	**1221**	**16.0**

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
```

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

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