SPEC® CFP2006 Result

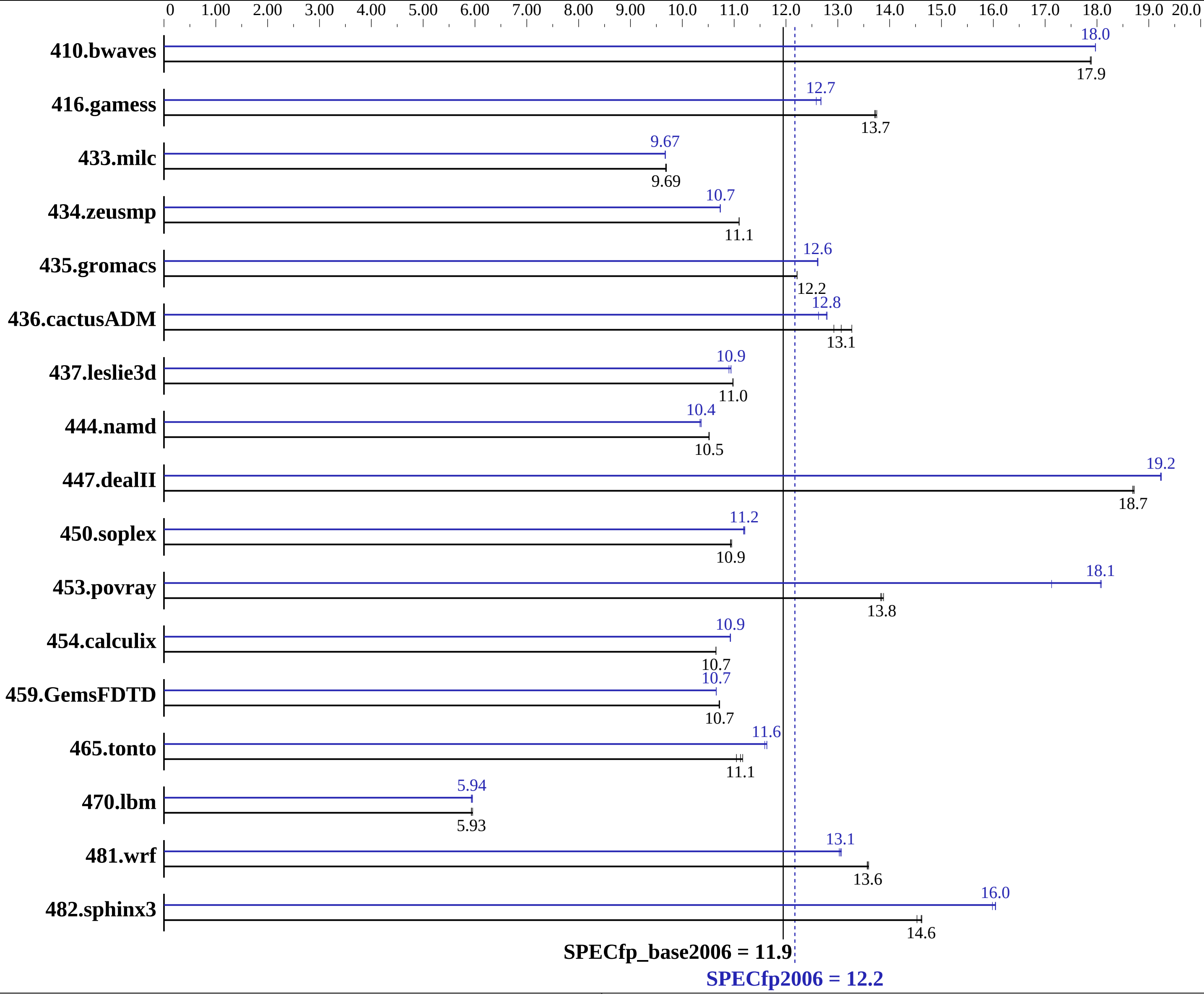
Bull SAS

NovaScale R440
(Intel Xeon processor 5130,2.00GHz)

SPECfp®2006 = 12.2

SPECfp_base2006 = 11.9

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 5130
CPU Characteristics:	2.00 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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
Other Cache: None
Memory: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 15000 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

	Base						Peak					
Benchmark	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	760	17.9	**760**	**17.9**	760	17.9	756	18.0	**756**	**18.0**	756	18.0
416.gamess	1428	13.7	1424	13.8	**1427**	**13.7**	1556	12.6	**1545**	**12.7**	1545	12.7
433.milc	949	9.68	**948**	**9.69**	947	9.69	949	9.68	**949**	**9.67**	950	9.67
434.zeusmp	**820**	**11.1**	820	11.1	820	11.1	848	10.7	848	10.7	**848**	**10.7**
435.gromacs	585	12.2	585	12.2	**585**	**12.2**	**566**	**12.6**	566	12.6	566	12.6
436.cactusADM	**915**	**13.1**	900	13.3	925	12.9	**935**	**12.8**	946	12.6	934	12.8
437.leslie3d	857	11.0	**856**	**11.0**	856	11.0	859	10.9	**859**	**10.9**	862	10.9
444.namd	762	10.5	**763**	**10.5**	763	10.5	776	10.3	**774**	**10.4**	774	10.4
447.dealII	**612**	**18.7**	611	18.7	612	18.7	595	19.2	595	19.2	**595**	**19.2**
450.soplex	763	10.9	**763**	**10.9**	761	11.0	744	11.2	746	11.2	**745**	**11.2**
453.povray	383	13.9	**384**	**13.8**	385	13.8	311	17.1	294	18.1	**294**	**18.1**
454.calculix	**775**	**10.7**	775	10.7	775	10.6	755	10.9	**755**	**10.9**	755	10.9
459.GemsFDTD	990	10.7	991	10.7	**990**	**10.7**	**996**	**10.7**	996	10.7	996	10.7
465.tonto	881	11.2	891	11.0	**885**	**11.1**	846	11.6	**846**	**11.6**	849	11.6
470.lbm	2307	5.96	2316	5.93	**2316**	**5.93**	2308	5.95	**2313**	**5.94**	2317	5.93
481.wrf	**823**	**13.6**	822	13.6	823	13.6	855	13.1	857	13.0	**856**	**13.1**
482.sphinx3	**1334**	**14.6**	1342	14.5	1333	14.6	1215	16.0	1219	16.0	**1215**	**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

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

General Notes

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

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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

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

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