SPEC® CFP2006 Result

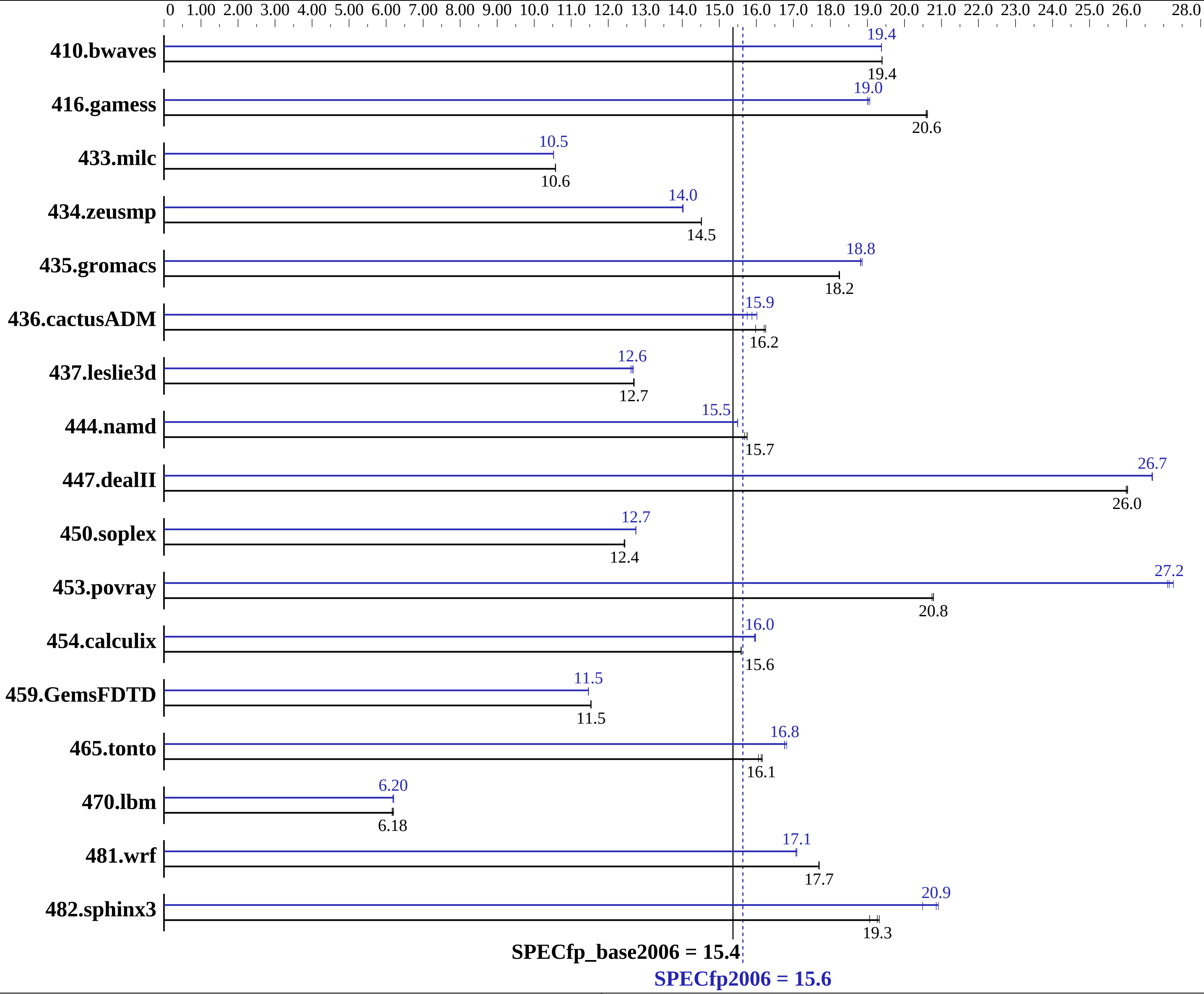
Bull SAS

NovaScale R460
(Intel Xeon processor 5160,3.00GHz)

SPECfp®2006 = 15.6

SPECfp_base2006 = 15.4

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 5160
CPU Characteristics:	3.00 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	3000
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	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	**701**	**19.4**	701	19.4	701	19.4	**701**	**19.4**	701	19.4	701	19.4
416.gamess	949	20.6	**950**	**20.6**	951	20.6	1030	19.0	**1030**	**19.0**	1027	19.1
433.milc	869	10.6	868	10.6	**868**	**10.6**	**872**	**10.5**	872	10.5	872	10.5
434.zeusmp	**627**	**14.5**	627	14.5	627	14.5	**649**	**14.0**	649	14.0	650	14.0
435.gromacs	391	18.3	**391**	**18.2**	392	18.2	380	18.8	**379**	**18.8**	379	18.9
436.cactusADM	735	16.3	**737**	**16.2**	748	16.0	759	15.8	**752**	**15.9**	746	16.0
437.leslie3d	741	12.7	**741**	**12.7**	740	12.7	741	12.7	**743**	**12.6**	745	12.6
444.namd	509	15.8	**509**	**15.7**	511	15.7	**518**	**15.5**	518	15.5	518	15.5
447.dealII	439	26.0	440	26.0	**440**	**26.0**	429	26.7	428	26.7	**428**	**26.7**
450.soplex	**671**	**12.4**	671	12.4	670	12.4	654	12.7	**654**	**12.7**	654	12.7
453.povray	**256**	**20.8**	256	20.7	256	20.8	**196**	**27.2**	196	27.1	195	27.3
454.calculix	529	15.6	**529**	**15.6**	529	15.6	516	16.0	**517**	**16.0**	517	16.0
459.GemsFDTD	921	11.5	**920**	**11.5**	919	11.5	926	11.5	**925**	**11.5**	925	11.5
465.tonto	609	16.2	**610**	**16.1**	613	16.1	585	16.8	**587**	**16.8**	587	16.8
470.lbm	2216	6.20	2230	6.16	**2224**	**6.18**	2214	6.21	**2218**	**6.20**	2222	6.18
481.wrf	**631**	**17.7**	631	17.7	632	17.7	653	17.1	655	17.1	**653**	**17.1**
482.sphinx3	1009	19.3	1023	19.1	**1012**	**19.3**	932	20.9	**934**	**20.9**	951	20.5

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'

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`

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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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