SPEC® CFP2006 Result
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Bull SAS

NovaScale R440
(Intel Xeon processor 5160,3.00GHz)

$SPECfp^{®}2006 =$ 15.6
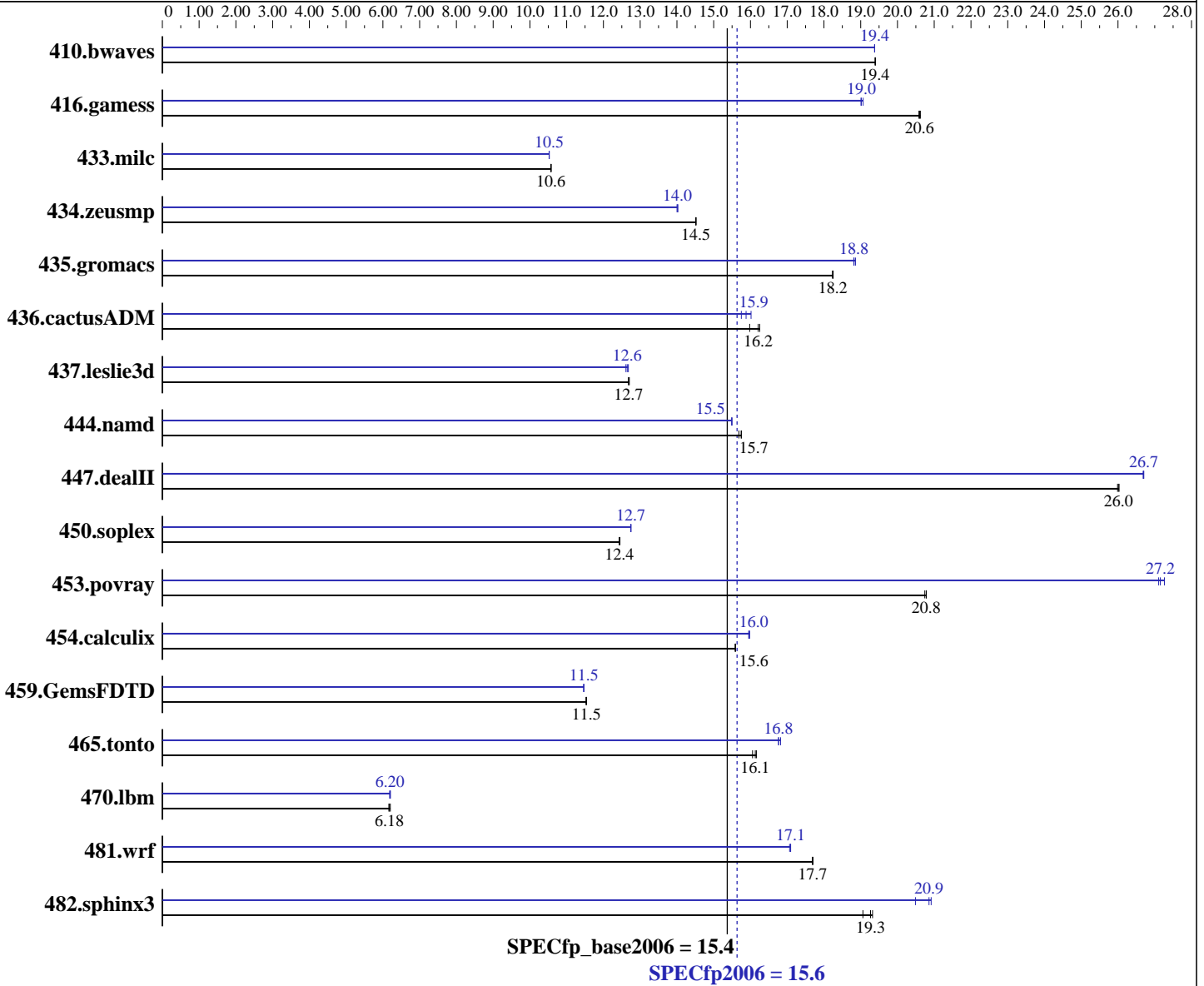
$SPECfp\_base2006 =$ 15.4

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006

SPECfp_base2006 = 15.4

SPECfp2006 = 15.6

Benchmark	base	peak
410.bwaves	19.4	19.4
416.gamess	20.6	19.0
433.milc	10.6	10.5
434.zeusmp	14.5	14.0
435.gromacs	18.2	18.8
436.cactusADM	16.2	15.9
437.leslie3d	12.7	12.6
444.namd	15.7	15.5
447.dealII	26.0	26.7
450.soplex	12.4	12.7
453.povray	20.8	27.2
454.calculix	15.6	16.0
459.GemsFDTD	11.5	11.5
465.tonto	16.1	16.8
470.lbm	6.18	6.20
481.wrf	17.7	17.1
482.sphinx3	19.3	20.9

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

Continued on next page

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

Benchmark	Base						Peak					
	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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