



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor 5140,2.33GHz)

SPECfp[®]_rate2006 = 38.9

SPECfp_rate_base2006 = 38.3

CPU2006 license: 20

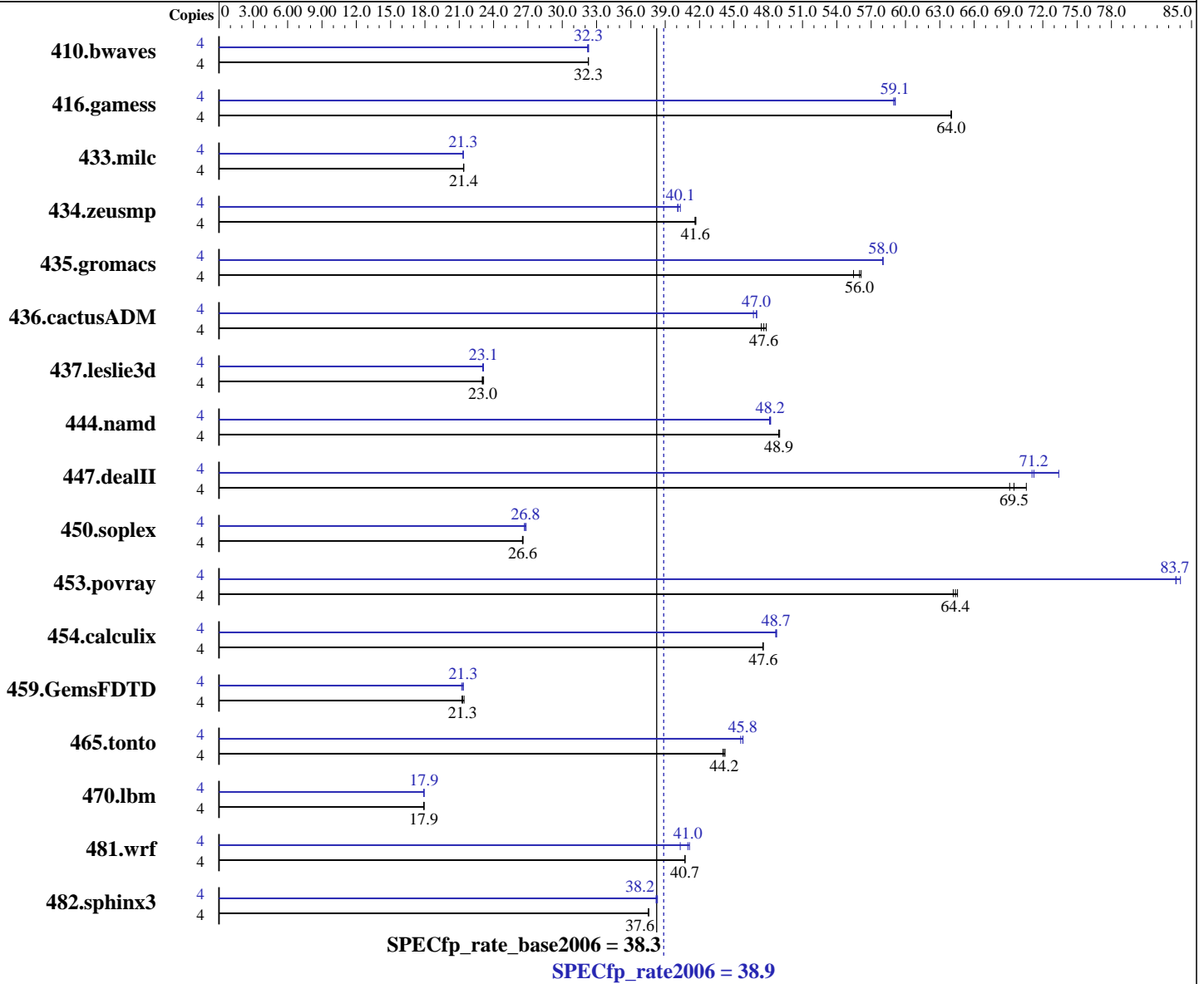
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5140
 CPU Characteristics: 2.33 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2333
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 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 | | | | | | | |
|---------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | | |
| 410.bwaves | 4 | 1683 | 32.3 | 1684 | 32.3 | 1684 | 32.3 | 4 | 1687 | 32.2 | 1684 | 32.3 | 1683 | 32.3 | | |
| 416.gamess | 4 | 1224 | 64.0 | 1224 | 64.0 | 1224 | 64.0 | 4 | 1328 | 59.0 | 1326 | 59.1 | 1325 | 59.1 | | |
| 433.milc | 4 | 1718 | 21.4 | 1716 | 21.4 | 1718 | 21.4 | 4 | 1720 | 21.3 | 1720 | 21.3 | 1721 | 21.3 | | |
| 434.zeusmp | 4 | 875 | 41.6 | 873 | 41.7 | 874 | 41.6 | 4 | 908 | 40.1 | 907 | 40.1 | 903 | 40.3 | | |
| 435.gromacs | 4 | 515 | 55.5 | 509 | 56.1 | 510 | 56.0 | 4 | 492 | 58.0 | 492 | 58.0 | 492 | 58.0 | | |
| 436.cactusADM | 4 | 1004 | 47.6 | 1009 | 47.4 | 999 | 47.8 | 4 | 1017 | 47.0 | 1018 | 47.0 | 1023 | 46.7 | | |
| 437.leslie3d | 4 | 1626 | 23.1 | 1631 | 23.0 | 1634 | 23.0 | 4 | 1631 | 23.1 | 1628 | 23.1 | 1626 | 23.1 | | |
| 444.namd | 4 | 655 | 49.0 | 656 | 48.9 | 656 | 48.9 | 4 | 665 | 48.2 | 666 | 48.2 | 667 | 48.1 | | |
| 447.dealII | 4 | 662 | 69.1 | 659 | 69.5 | 649 | 70.6 | 4 | 644 | 71.1 | 642 | 71.2 | 623 | 73.4 | | |
| 450.soplex | 4 | 1256 | 26.6 | 1255 | 26.6 | 1258 | 26.5 | 4 | 1246 | 26.8 | 1250 | 26.7 | 1243 | 26.8 | | |
| 453.povray | 4 | 330 | 64.5 | 331 | 64.4 | 332 | 64.2 | 4 | 253 | 84.0 | 254 | 83.7 | 254 | 83.6 | | |
| 454.calculix | 4 | 694 | 47.6 | 694 | 47.6 | 694 | 47.5 | 4 | 677 | 48.7 | 678 | 48.7 | 678 | 48.7 | | |
| 459.GemsFDTD | 4 | 1998 | 21.2 | 1992 | 21.3 | 1981 | 21.4 | 4 | 1989 | 21.3 | 1988 | 21.4 | 2001 | 21.2 | | |
| 465.tonto | 4 | 890 | 44.2 | 894 | 44.0 | 891 | 44.2 | 4 | 863 | 45.6 | 859 | 45.8 | 860 | 45.8 | | |
| 470.lbm | 4 | 3071 | 17.9 | 3066 | 17.9 | 3069 | 17.9 | 4 | 3068 | 17.9 | 3068 | 17.9 | 3067 | 17.9 | | |
| 481.wrf | 4 | 1097 | 40.7 | 1097 | 40.7 | 1097 | 40.7 | 4 | 1108 | 40.3 | 1087 | 41.1 | 1090 | 41.0 | | |
| 482.sphinx3 | 4 | 2078 | 37.5 | 2075 | 37.6 | 2076 | 37.6 | 4 | 2034 | 38.3 | 2041 | 38.2 | 2039 | 38.2 | | |

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 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 other inquiries, please contact webmaster@spec.org.

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