SPEC® CFP2006 Result

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Bull SAS

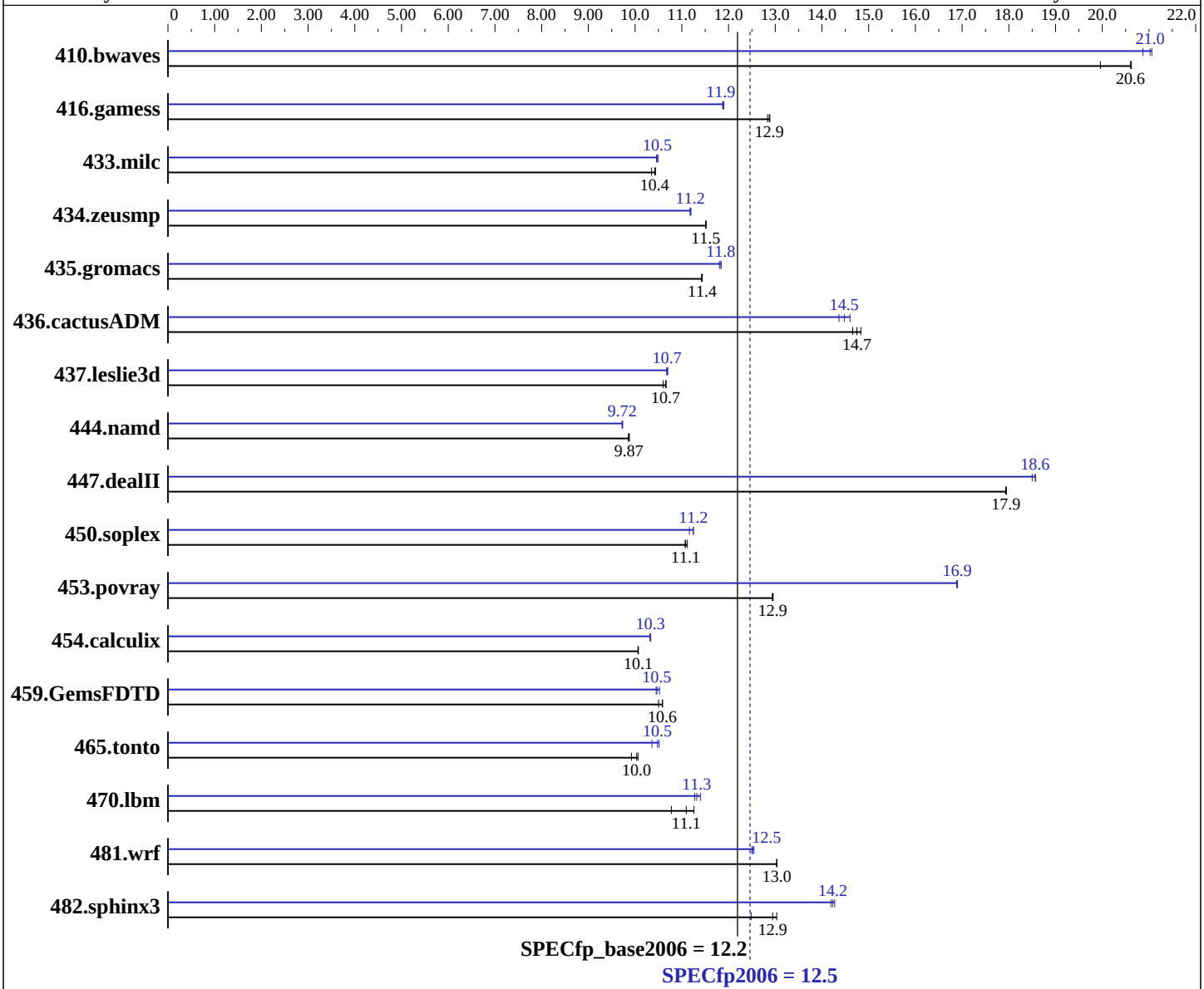
NovaScale T820
(Intel Xeon processor 3040, 1.86GHz)

SPECfp®2006 = 12.5

SPECfp_base2006 = 12.2

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 3040
CPU Characteristics:	1.86 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	2 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:	4 GB (4x1 GB) PC2-4200E ECC CL4
Disk Subsystem:	1x160 GB SATA2, 7200 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	681	20.0	**660**	**20.6**	659	20.6	651	20.9	**646**	**21.0**	645	21.1
416.gamess	1520	12.9	1525	12.8	**1521**	**12.9**	**1648**	**11.9**	1649	11.9	1645	11.9
433.milc	887	10.4	**881**	**10.4**	880	10.4	**876**	**10.5**	878	10.5	875	10.5
434.zeusmp	**790**	**11.5**	790	11.5	790	11.5	813	11.2	**814**	**11.2**	814	11.2
435.gromacs	625	11.4	624	11.4	**624**	**11.4**	605	11.8	603	11.8	**603**	**11.8**
436.cactusADM	**810**	**14.7**	815	14.7	806	14.8	832	14.4	**825**	**14.5**	818	14.6
437.leslie3d	887	10.6	**882**	**10.7**	881	10.7	879	10.7	**880**	**10.7**	881	10.7
444.namd	814	9.86	812	9.88	**813**	**9.87**	**825**	**9.72**	824	9.73	825	9.72
447.dealII	638	17.9	**638**	**17.9**	637	17.9	**616**	**18.6**	618	18.5	616	18.6
450.soplex	750	11.1	**753**	**11.1**	753	11.1	747	11.2	**742**	**11.2**	741	11.2
453.povray	411	12.9	**411**	**12.9**	411	13.0	**315**	**16.9**	315	16.9	315	16.9
454.calculix	820	10.1	819	10.1	**819**	**10.1**	798	10.3	800	10.3	**799**	**10.3**
459.GemsFDTD	1010	10.5	1002	10.6	**1002**	**10.6**	1015	10.5	**1014**	**10.5**	1008	10.5
465.tonto	992	9.92	978	10.1	**981**	**10.0**	950	10.4	**939**	**10.5**	936	10.5
470.lbm	**1238**	**11.1**	1220	11.3	1275	10.8	1218	11.3	**1214**	**11.3**	1205	11.4
481.wrf	**857**	**13.0**	857	13.0	857	13.0	**893**	**12.5**	894	12.5	890	12.5
482.sphinx3	1561	12.5	1496	13.0	**1506**	**12.9**	1373	14.2	1366	14.3	**1369**	**14.2**

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'

system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in menu.lst
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

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Base Compiler Invocation (Continued)

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

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Peak Compiler Invocation (Continued)

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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