



# SPEC<sup>®</sup> CFP2006 Result

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## Bull SAS

SPECfp<sup>®</sup>\_rate2006 = 49.6

NovaScale T880 (3.20 GHz, Intel Xeon 7130M)

SPECfp\_rate\_base2006 = 48.7

CPU2006 license: 20

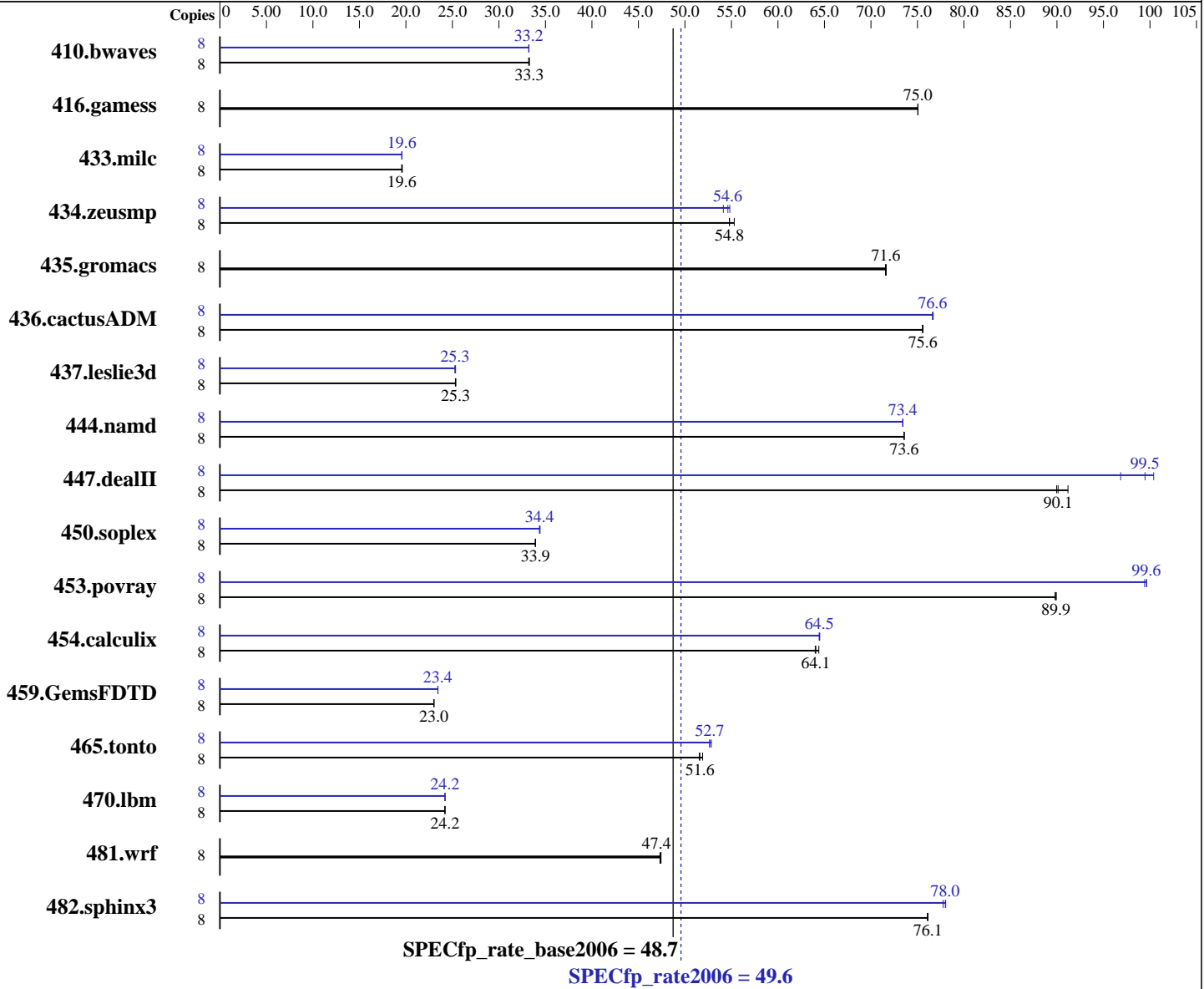
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 7130M  
 CPU Characteristics: 3.2GHz, 800MHz bus  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip  
 CPU(s) orderable: 1,2,4 chips  
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core  
 Secondary Cache: 1 MB I+D on chip per core

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### Software

Operating System: Windows Server 2003 Enterprise X64 Edition  
 Compiler: Intel C++ Compiler 9.1 for 32-bit  
 Build 20061103Z Package ID: W\_CC\_C\_9.1.033  
 Intel Fortran Compiler 9.1 for 32-bit  
 Build 20061103Z Package ID: W\_FC\_C\_9.1.033  
 Microsoft Visual Studio .NET 2003 (libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default

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L3 Cache: 8 MB I+D on chip per chip  
Other Cache: None  
Memory: 32 GB (667 MHz ECC CL5 DDR2 FB-DIMM)  
Disk Subsystem: 2x36GB SAS 15000 rpm  
Other Hardware: None

Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: MicroQuill SmartHeap Library 8.0 (shlW32M.lib)

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3268	33.3	3275	33.2	<u>3269</u>	<u>33.3</u>	8	3274	33.2	3272	33.2	<u>3273</u>	<u>33.2</u>
416.gamess	8	2087	75.0	<u>2087</u>	<u>75.0</u>	2087	75.1	8	2087	75.0	<u>2087</u>	<u>75.0</u>	2087	75.1
433.milc	8	3745	19.6	3756	19.6	<u>3754</u>	<u>19.6</u>	8	3753	19.6	3754	19.6	<u>3754</u>	<u>19.6</u>
434.zeusmp	8	1316	55.3	1329	54.8	<u>1329</u>	<u>54.8</u>	8	1328	54.8	<u>1333</u>	<u>54.6</u>	1345	54.1
435.gromacs	8	798	71.6	797	71.6	<u>798</u>	<u>71.6</u>	8	798	71.6	797	71.6	<u>798</u>	<u>71.6</u>
436.cactusADM	8	1265	75.6	<u>1265</u>	<u>75.6</u>	1266	75.5	8	<u>1247</u>	<u>76.6</u>	1248	76.6	1247	76.7
437.leslie3d	8	2970	25.3	2964	25.4	<u>2969</u>	<u>25.3</u>	8	2975	25.3	2967	25.3	<u>2974</u>	<u>25.3</u>
444.namd	8	872	73.6	<u>872</u>	<u>73.6</u>	872	73.6	8	874	73.4	<u>874</u>	<u>73.4</u>	874	73.4
447.dealII	8	<u>1016</u>	<u>90.1</u>	1004	91.2	1017	90.0	8	912	100	<u>920</u>	<u>99.5</u>	945	96.8
450.soplex	8	1966	33.9	1968	33.9	<u>1967</u>	<u>33.9</u>	8	1942	34.4	<u>1940</u>	<u>34.4</u>	1938	34.4
453.povray	8	473	89.9	<u>473</u>	<u>89.9</u>	474	89.8	8	427	99.6	428	99.4	<u>427</u>	<u>99.6</u>
454.calculix	8	<u>1030</u>	<u>64.1</u>	1031	64.0	1025	64.4	8	<u>1024</u>	<u>64.5</u>	1024	64.4	1023	64.5
459.GemsFDTD	8	3687	23.0	3690	23.0	<u>3689</u>	<u>23.0</u>	8	3619	23.5	3622	23.4	<u>3622</u>	<u>23.4</u>
465.tonto	8	1517	51.9	1527	51.5	<u>1526</u>	<u>51.6</u>	8	<u>1494</u>	<u>52.7</u>	1495	52.6	1490	52.8
470.lbm	8	4542	24.2	<u>4542</u>	<u>24.2</u>	4545	24.2	8	<u>4541</u>	<u>24.2</u>	4540	24.2	4544	24.2
481.wrf	8	1884	47.4	1889	47.3	<u>1885</u>	<u>47.4</u>	8	1884	47.4	1889	47.3	<u>1885</u>	<u>47.4</u>
482.sphinx3	8	<u>2048</u>	<u>76.1</u>	2048	76.1	2050	76.1	8	1998	78.0	<u>1999</u>	<u>78.0</u>	2005	77.8

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## General Notes

### Other Configuration Notes

The NovaScale T880 and the NovaScale R480 models are electronically equivalent.  
The results have been measured on a NovaScale R480 model.



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## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
C++ benchmarks:  
icl -Qvc7.1  
Fortran benchmarks:  
ifort  
Benchmarks using both Fortran and C:  
icl -Qvc7.1 -Qc99 ifort

## Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
444.namd: -TP  
447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
-DBOOST\_NO\_INTRINSIC\_WCHAR\_T  
453.povray: -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
481.wrf: -DSPEC\_CPU\_WINDOWS\_ICL

## Base Optimization Flags

C benchmarks:  
-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE  
C++ benchmarks:  
-fast -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE  
Fortran benchmarks:  
-fast /F950000000 -link /FORCE:MULTIPLE  
Benchmarks using both Fortran and C:  
-fast /F950000000 -link /FORCE:MULTIPLE

## Peak Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
C++ benchmarks:  
icl -Qvc7.1

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## Peak Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort

## Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
 444.namd: -TP  
 447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
 -DBOOST\_NO\_INTRINSIC\_WCHAR\_T  
 453.povray: -DSPEC\_CPU\_WINDOWS\_ICL  
 454.calculix: -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
 481.wrf: -DSPEC\_CPU\_WINDOWS\_ICL

## Peak Optimization Flags

C benchmarks:

-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

C++ benchmarks:

-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx\_features  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F950000000  
-link /FORCE:MULTIPLE

416.gamess: basepeak = yes

434.zeusmp: Same as 410.bwaves

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: Same as 410.bwaves

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

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## Peak Optimization Flags (Continued)

436.cactusADM: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F950000000  
-link /FORCE:MULTIPLE

454.calculix: Same as 436.cactusADM

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/flags.20090714.00.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/flags.20090714.00.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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