



SPEC® CFP2006 Result

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HITACHI

BladeSymphony BS320 (Intel Xeon X5260)

SPECfp®_rate2006 = 56.6

CPU2006 license: 872

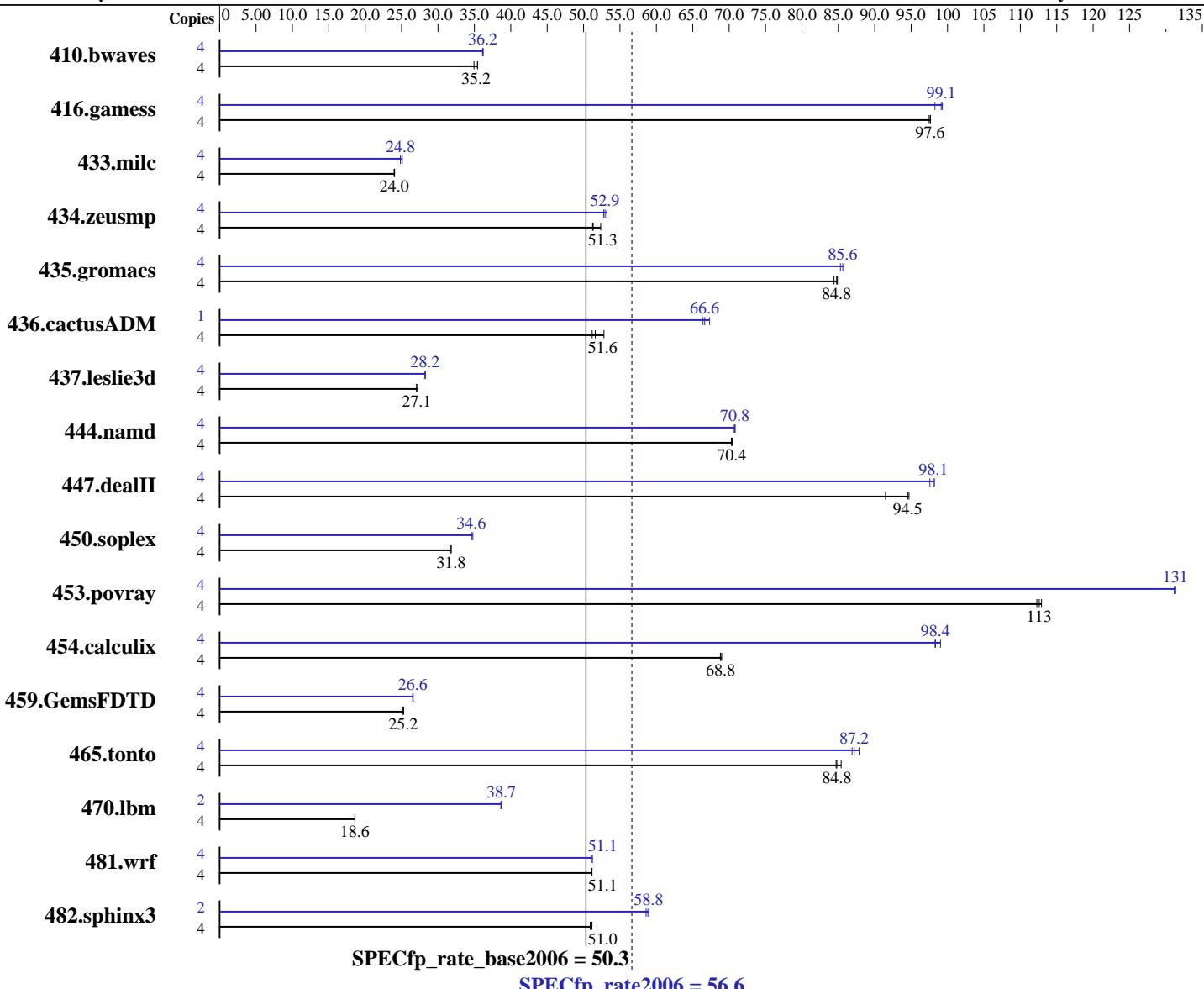
Test date: Feb-2008

Test sponsor: HITACHI

Hardware Availability: Dec-2007

Tested by: HITACHI

Software Availability: Nov-2007



Hardware		Software	
CPU Name:	Intel Xeon X5260	Operating System:	Red Hat Enterprise Linux
CPU Characteristics:	1333MHz system bus		Server release 5.1 (Tikanga)
CPU MHz:	3333		Kernel 2.6.18-53.el5 on an x86_64
FPU:	Integrated	Compiler:	Intel C++ and Fortran Compiler 10.1 for
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip		Linux
CPU(s) orderable:	1, 2 chips		Build 20070913 Package ID:
Primary Cache:	32 KB I + 32 KB D on chip per core		l_cc_p_10.1.008,
Secondary Cache:	6 MB I+D on chip per chip		l_fc_p_10.1.008

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L3 Cache: None
 Other Cache: None
 Memory: 16 GB(4 x 4 GB PC2-5300F CAS 5-5-5)
 Disk Subsystem: 1 x 147 GB 10000 rpm SAS
 Other Hardware: None

Auto Parallel: Yes
 File System: ext3
 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	1542	35.2	1555	34.9	1534	35.4	4	1502	36.2	1505	36.1	1503	36.2
416.gamess	4	802	97.6	804	97.4	802	97.7	4	790	99.1	789	99.3	797	98.3
433.milc	4	1530	24.0	1531	24.0	1528	24.0	4	1463	25.1	1478	24.8	1478	24.8
434.zeusmp	4	710	51.2	709	51.3	695	52.4	4	687	52.9	690	52.8	684	53.2
435.gromacs	4	338	84.4	337	84.8	337	84.9	4	334	85.6	333	85.8	335	85.3
436.cactusADM	4	934	51.2	905	52.8	926	51.6	1	180	66.4	178	67.3	179	66.6
437.leslie3d	4	1390	27.1	1388	27.1	1380	27.3	4	1332	28.2	1331	28.2	1331	28.3
444.namd	4	456	70.4	456	70.4	456	70.3	4	453	70.8	454	70.7	453	70.8
447.dealII	4	500	91.5	484	94.5	483	94.7	4	466	98.2	469	97.6	467	98.1
450.soplex	4	1049	31.8	1049	31.8	1054	31.7	4	964	34.6	959	34.8	965	34.6
453.povray	4	188	113	189	113	190	112	4	162	131	162	131	162	131
454.calculix	4	478	69.0	480	68.8	480	68.8	4	333	99.0	336	98.4	336	98.3
459.GemsFDTD	4	1683	25.2	1682	25.2	1678	25.3	4	1600	26.5	1596	26.6	1598	26.6
465.tonto	4	464	84.8	461	85.4	465	84.7	4	451	87.2	453	86.9	448	87.9
470.lbm	4	2957	18.6	2956	18.6	2953	18.6	2	710	38.7	710	38.7	711	38.6
481.wrf	4	875	51.1	873	51.2	875	51.1	4	872	51.2	875	51.1	875	51.1
482.sphinx3	4	1531	50.9	1524	51.2	1528	51.0	2	663	58.8	665	58.6	661	59.0

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

General Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
 '/bin/taskset' used to bind processes to CPUs
 OMP_NUM_THREADS set to number of cores
 KMP_AFFINITY set to physical,0

Base Compiler Invocation

C benchmarks:
 icc

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Base Compiler Invocation (Continued)

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.games: -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 (except as noted below):

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

433.milc: icc

C++ benchmarks (except as noted below):

```
icpc
```

```
450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

Fortran benchmarks (except as noted below):

```
ifort
```

```
437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib  
-I/opt/intel/fc/10.1.008/include
```

Benchmarks using both Fortran and C:

```
icc ifort
```

Peak 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  
453.povray: -DSPEC_CPU_LP64  
454.calculix: -DSPEC_CPU_LP64 -nofor_main  
459.GemsFDTD: -DSPEC_CPU_LP64  
465.tonto: -DSPEC_CPU_LP64  
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
433.milc: -prof_gen(pass 1) -prof_use(pass 2) -fast -fno-alias  
-auto-ilp32
```

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Peak Optimization Flags (Continued)

470.lbm: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll12
-scalar-rep- -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll12

C++ benchmarks:

444.namd: -prof_gen(pass 1) -prof_use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll12
-ansi-alias -scalar-rep-

450.soplex: -prof_gen(pass 1) -prof_use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll14
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll12 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof_gen(pass 1) -prof_use(pass 2) -fast

437.leslie3d: -prof_gen(pass 1) -prof_use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll12 -O0
-prefetch

465.tonto: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll14 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof_gen(pass 1) -prof_use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll12
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32



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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090713.01.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090713.01.xml>

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