



SPEC[®] CFP2006 Result

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HITACHI

SPECfp[®]2006 = 15.2

BladeSymphony BS320 (Intel Xeon E5345)

SPECfp_base2006 = 14.8

CPU2006 license: 872

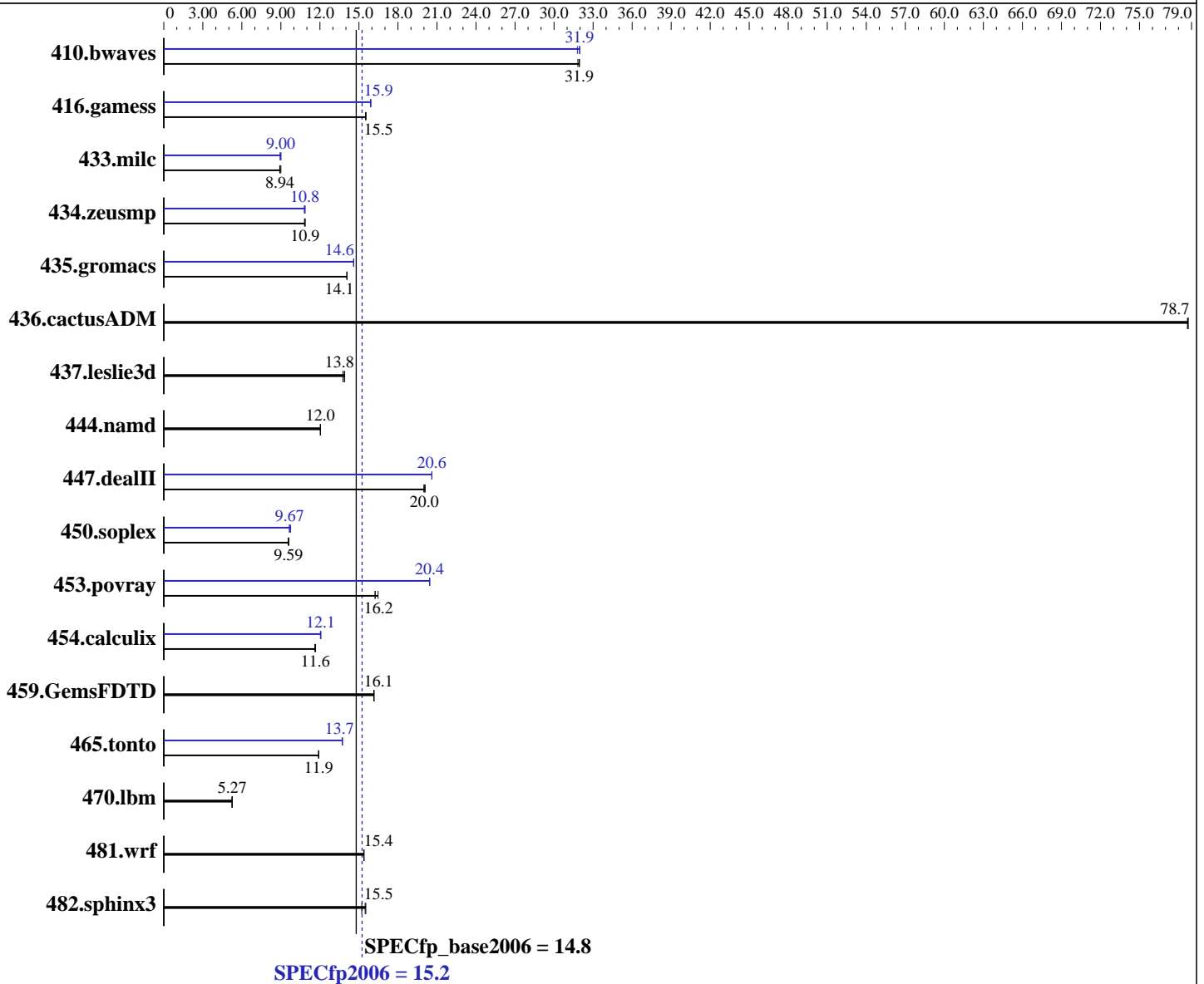
Test sponsor: HITACHI

Tested by: HITACHI

Test date: Jul-2007

Hardware Availability: Jan-2007

Software Availability: Mar-2007



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2333
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1, 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System: Red Hat Enterprise Linux
 ES release 4 (Nahant Update 3)
 Kernel 2.6.9-34.ELsmp on an x86_64
 Compiler: Intel C++ Compiler for EM64T
 version 9.1 build 20070320
 Intel Fortran Compiler for EM64T
 version 9.1 build 20070320
 Auto Parallel: Yes

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L3 Cache: None
Other Cache: None
Memory: 8 GB(4 x 2 GB PC2-5300F CAS 5-5-5)
Disk Subsystem: 2 x 73GB 10000rpm SAS
Other Hardware: None

File System: ext3
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	426	31.9	427	31.8	425	32.0	428	31.8	425	31.9	425	32.0
416.gamess	1261	15.5	1260	15.5	1263	15.5	1230	15.9	1231	15.9	1232	15.9
433.milc	1027	8.94	1020	9.00	1030	8.91	1020	9.00	1020	9.00	1028	8.93
434.zeusmp	838	10.9	838	10.9	841	10.8	843	10.8	838	10.9	839	10.8
435.gromacs	507	14.1	507	14.1	507	14.1	489	14.6	489	14.6	489	14.6
436.cactusADM	152	78.7	152	78.7	152	78.7	152	78.7	152	78.7	152	78.7
437.leslie3d	682	13.8	681	13.8	676	13.9	682	13.8	681	13.8	676	13.9
444.namd	666	12.0	666	12.0	666	12.0	666	12.0	666	12.0	666	12.0
447.dealII	571	20.0	569	20.1	572	20.0	555	20.6	555	20.6	555	20.6
450.soplex	871	9.58	870	9.59	868	9.61	864	9.65	863	9.67	855	9.75
453.povray	327	16.2	323	16.5	327	16.2	260	20.4	260	20.4	260	20.4
454.calculix	710	11.6	707	11.7	708	11.6	684	12.1	684	12.1	685	12.0
459.GemsFDTD	657	16.1	656	16.2	657	16.1	657	16.1	656	16.2	657	16.1
465.tonto	826	11.9	827	11.9	826	11.9	718	13.7	717	13.7	716	13.7
470.lbm	2627	5.23	2608	5.27	2607	5.27	2627	5.23	2608	5.27	2607	5.27
481.wrf	726	15.4	726	15.4	727	15.4	726	15.4	726	15.4	727	15.4
482.sphinx3	1280	15.2	1259	15.5	1255	15.5	1280	15.2	1259	15.5	1255	15.5

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

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Base Compiler Invocation (Continued)

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 -parallel

C++ benchmarks:
-fast -parallel

Fortran benchmarks:
-fast -parallel

Benchmarks using both Fortran and C:
-fast -parallel

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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Peak Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: -fast

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -fast

450.soplex: -prof_gen(pass 1) -prof_use(pass 2) -fast -parallel

453.povray: Same as 450.soplex

Fortran benchmarks:

410.bwaves: -prof_gen(pass 1) -prof_use(pass 2) -fast -parallel

416.gamess: -fast

434.zeusmp: Same as 410.bwaves

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

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Peak Optimization Flags (Continued)

435.gromacs: -prof_gen(pass 1) -prof_use(pass 2) -fast -parallel

436.cactusADM: basepeak = yes

454.calculix: -prof_gen(pass 1) -prof_use(pass 2) -fast

481.wrf: basepeak = yes

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

http://www.spec.org/cpu2006/flags/ic91_fp.html

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

http://www.spec.org/cpu2006/flags/ic91_fp.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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