SPEC® CFP2006 Result

HITACHI

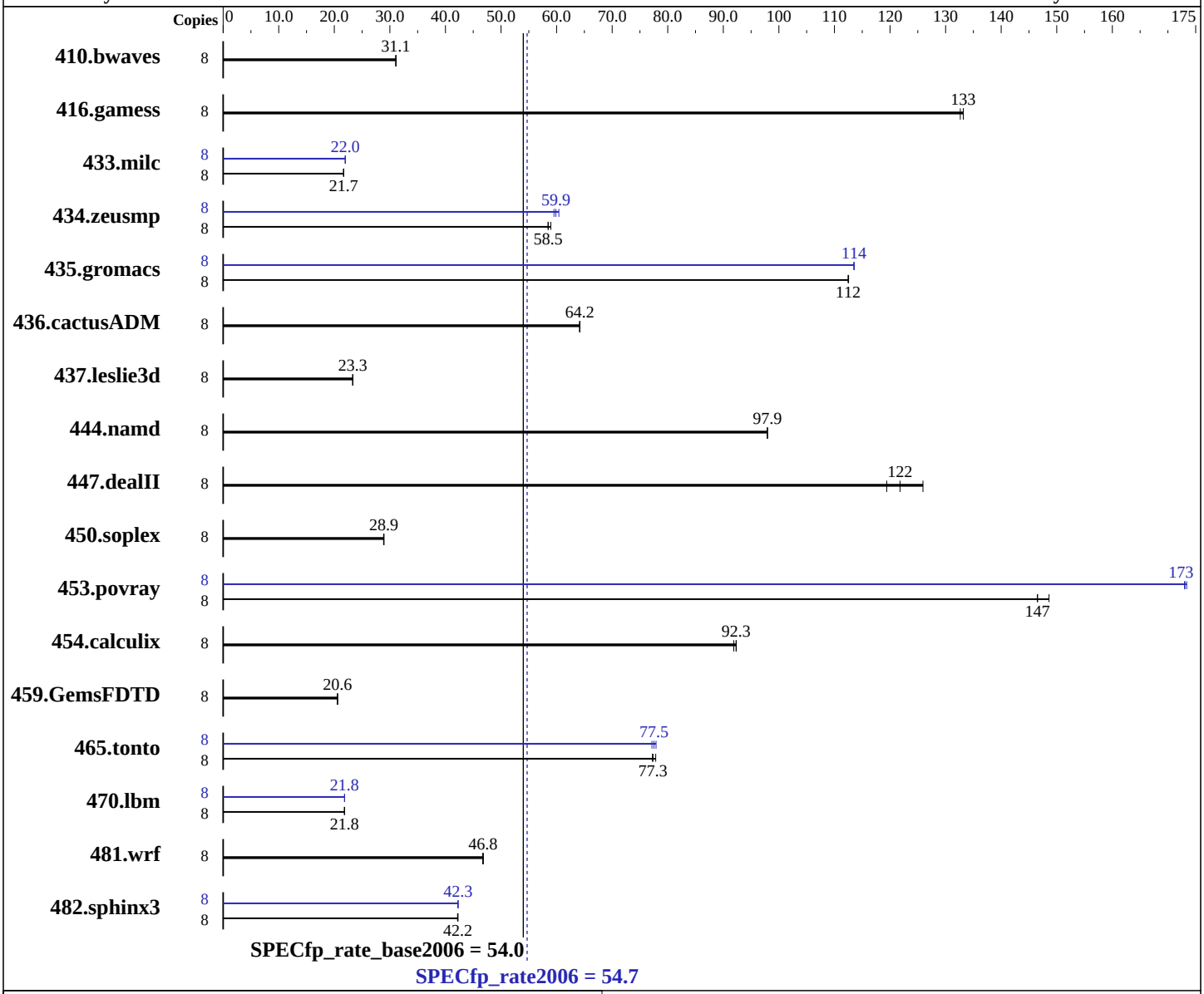
BladeSymphony BS320 (Intel Xeon E5345)

SPECfp®_rate2006 = 54.7

SPECfp_rate_base2006 = 54.0

CPU2006 license: 872
Test sponsor: HITACHI
Tested by: HITACHI

Test date: Jun-2007
Hardware Availability: Jan-2007
Software Availability: Jun-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 10.0 build 20070426 Intel Fortran Compiler for EM64T version 10.0 build 20070426
Auto Parallel:	No

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L3 Cache:	None	File System:	ext3
Other Cache:	None	System State:	Multi-user run level 3
Memory:	8 GB(4 x 2 GB PC2-5300F CAS 5-5-5)	Base Pointers:	64-bit
Disk Subsystem:	2 x 73GB 10000rpm SAS	Peak Pointers:	64-bit
Other Hardware:	None	Other Software:	None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3499	31.1	**3497**	**31.1**	3497	31.1	8	3499	31.1	**3497**	**31.1**	3497	31.1
416.gamess	8	**1176**	**133**	1181	133	1176	133	8	**1176**	**133**	1181	133	1176	133
433.milc	8	3386	21.7	**3388**	**21.7**	3390	21.7	8	3348	21.9	3337	22.0	**3337**	**22.0**
434.zeusmp	8	1245	58.5	1235	59.0	**1245**	**58.5**	8	**1216**	**59.9**	1205	60.4	1223	59.5
435.gromacs	8	**508**	**112**	508	112	508	113	8	503	114	503	113	**503**	**114**
436.cactusADM	8	1489	64.2	1491	64.1	**1489**	**64.2**	8	1489	64.2	1491	64.1	**1489**	**64.2**
437.leslie3d	8	3221	23.3	3226	23.3	**3225**	**23.3**	8	3221	23.3	3226	23.3	**3225**	**23.3**
444.namd	8	655	97.9	655	97.9	**655**	**97.9**	8	655	97.9	655	97.9	**655**	**97.9**
447.dealII	8	**751**	**122**	766	119	727	126	8	**751**	**122**	766	119	727	126
450.soplex	8	2311	28.9	**2308**	**28.9**	2305	28.9	8	2311	28.9	**2308**	**28.9**	2305	28.9
453.povray	8	**290**	**147**	290	147	286	149	8	246	173	245	173	**246**	**173**
454.calculix	8	715	92.3	**715**	**92.3**	718	91.9	8	715	92.3	**715**	**92.3**	718	91.9
459.GemsFDTD	8	4123	20.6	4127	20.6	**4124**	**20.6**	8	4123	20.6	4127	20.6	**4124**	**20.6**
465.tonto	8	1019	77.3	1011	77.8	**1018**	**77.3**	8	1020	77.2	**1015**	**77.5**	1011	77.9
470.lbm	8	**5034**	**21.8**	5034	21.8	5035	21.8	8	5031	21.8	5031	21.8	**5031**	**21.8**
481.wrf	8	1913	46.7	1909	46.8	**1911**	**46.8**	8	1913	46.7	1909	46.8	**1911**	**46.8**
482.sphinx3	8	**3692**	**42.2**	3697	42.2	3690	42.3	8	3686	42.3	3693	42.2	**3689**	**42.3**

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

Continued on next page

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

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

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:
-prof_gen(pass 1) -prof_use(pass 2) -fast

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: basepeak = yes

450.soplex: basepeak = yes

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

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

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

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: Same as 434.zeusmp

Benchmarks using both Fortran and C:

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

436.cactusADM: basepeak = yes

Continued on next page

Peak Optimization Flags (Continued)

454.calculix: `basepeak = yes`

481.wrf: `basepeak = yes`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/ic100_fp.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/ic100_fp.xml`

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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