SPEC® CFP2006 Result

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HITACHI

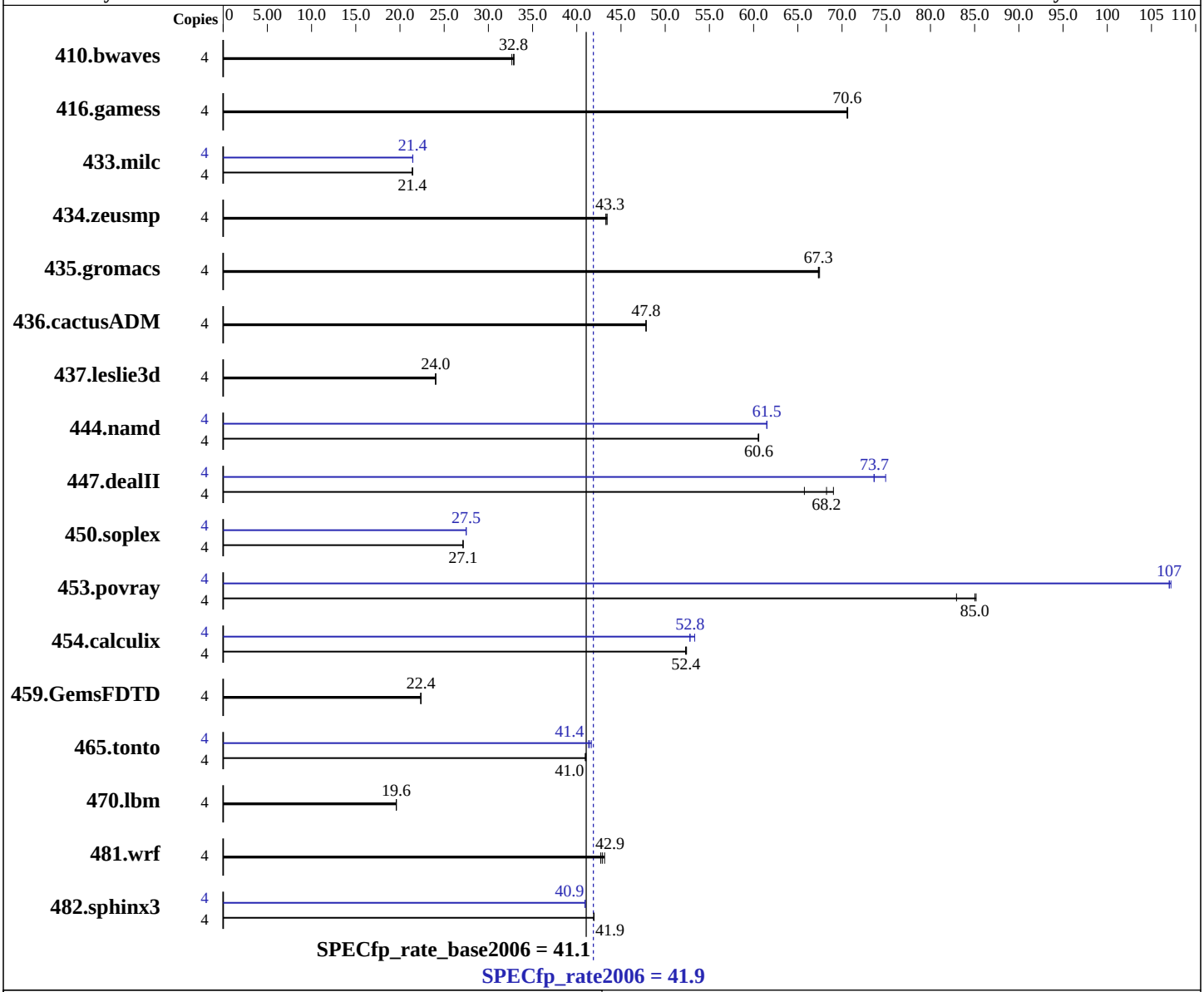
BladeSymphony BS1000 (Intel Xeon 5160)

SPECfp®_rate2006 = 41.9

SPECfp_rate_base2006 = 41.1

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

Test date: May-2007
Hardware Availability: Sep-2006
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	1333MHz system bus
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1, 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

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Software

Operating System:	Microsoft Windows Server 2003 R2, Enterprise x64 Edition
Compiler:	Intel C++ Compiler for IA32 version 9.1 Build 20061103Z Intel Fortran Compiler for IA32 version 9.1 Build 20061103Z Microsoft Visual Studio .NET 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 16 GB(8 x 2 GB PC2-4200F)
Disk Subsystem: 1 x 73GB 10000rpm SAS
Other Hardware: None

System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: MicroQuill SmartHeap Library 8.0

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1665	32.7	1652	32.9	**1655**	**32.8**	4	1665	32.7	1652	32.9	**1655**	**32.8**
416.gamess	4	1109	70.6	**1109**	**70.6**	1110	70.6	4	1109	70.6	**1109**	**70.6**	1110	70.6
433.milc	4	1714	21.4	**1715**	**21.4**	1716	21.4	4	1711	21.5	**1712**	**21.4**	1713	21.4
434.zeusmp	4	**840**	**43.3**	841	43.3	838	43.4	4	**840**	**43.3**	841	43.3	838	43.4
435.gromacs	4	**424**	**67.3**	423	67.5	424	67.3	4	**424**	**67.3**	423	67.5	424	67.3
436.cactusADM	4	999	47.8	999	47.8	**999**	**47.8**	4	999	47.8	999	47.8	**999**	**47.8**
437.leslie3d	4	1564	24.0	**1564**	**24.0**	1565	24.0	4	1564	24.0	**1564**	**24.0**	1565	24.0
444.namd	4	**530**	**60.6**	530	60.5	530	60.6	4	522	61.5	**522**	**61.5**	522	61.5
447.dealII	4	696	65.7	663	69.0	**671**	**68.2**	4	611	74.9	**621**	**73.7**	622	73.6
450.soplex	4	1229	27.1	**1229**	**27.1**	1230	27.1	4	1213	27.5	1214	27.5	**1214**	**27.5**
453.povray	4	250	85.2	**250**	**85.0**	257	82.9	4	199	107	199	107	**199**	**107**
454.calculix	4	630	52.4	631	52.3	**630**	**52.4**	4	625	52.8	619	53.3	**625**	**52.8**
459.GemsFDTD	4	1899	22.4	**1898**	**22.4**	1897	22.4	4	1899	22.4	**1898**	**22.4**	1897	22.4
465.tonto	4	961	41.0	**961**	**41.0**	959	41.0	4	**950**	**41.4**	952	41.3	945	41.7
470.lbm	4	2806	19.6	2807	19.6	**2806**	**19.6**	4	2806	19.6	2807	19.6	**2806**	**19.6**
481.wrf	4	1036	43.1	1046	42.7	**1042**	**42.9**	4	1036	43.1	1046	42.7	**1042**	**42.9**
482.sphinx3	4	**1859**	**41.9**	1859	41.9	1859	41.9	4	1905	40.9	1904	41.0	**1904**	**40.9**

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

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`

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`

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Peak Portability Flags (Continued)

453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Peak Optimization Flags

C benchmarks:

433.milc: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

470.lbm: basepeak = yes

482.sphinx3: Same as 433.milc

C++ benchmarks:
ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F950000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

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.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/ic91.xml

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:00:24 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 12 June 2007.