SPEC® CFP2006 Result

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Fujitsu Siemens Computers

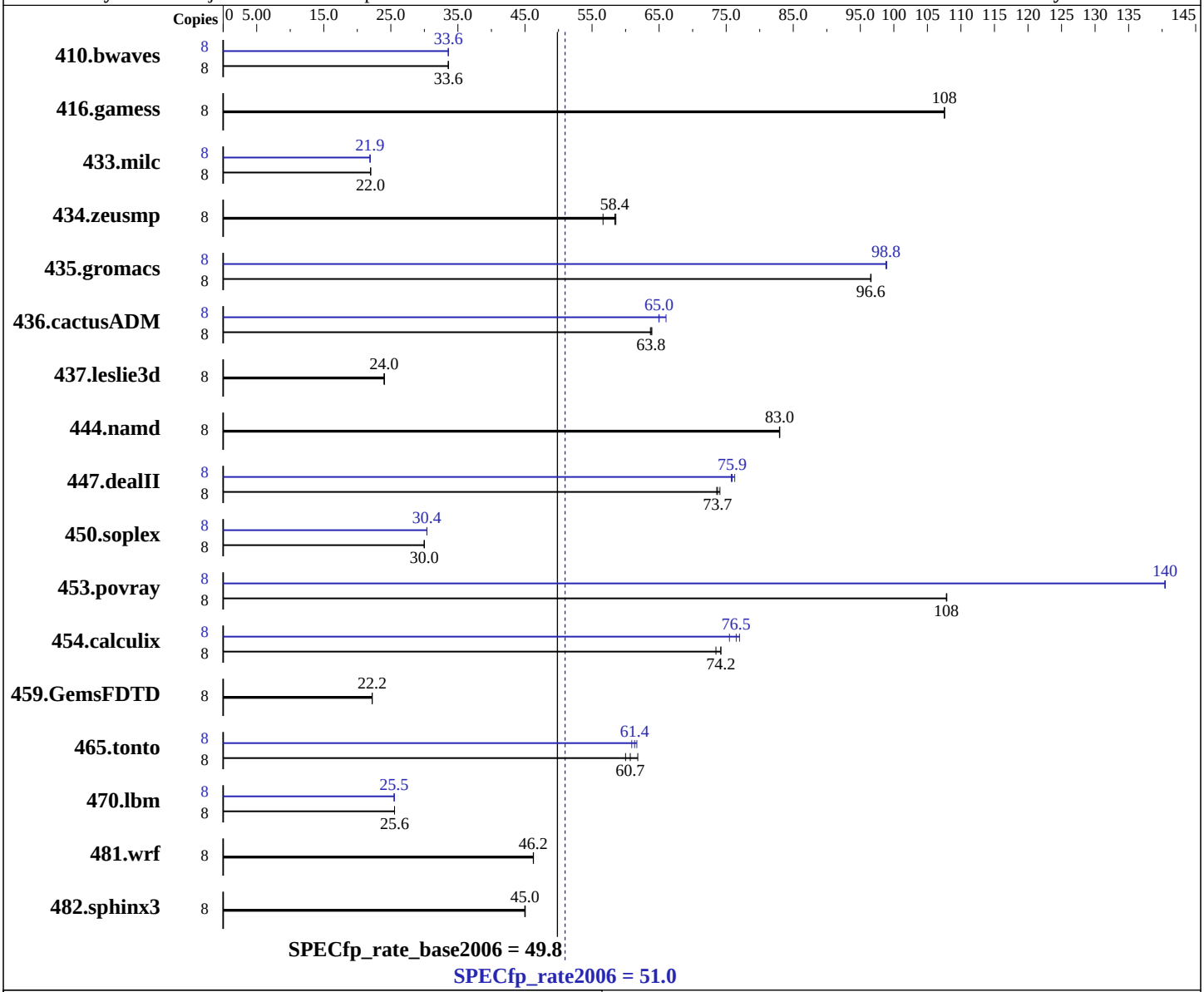
CELSIUS R640, Intel Xeon E5335 processor

SPECfp®_rate2006 = 51.0

SPECfp_rate_base2006 = 49.8

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Feb-2007
Hardware Availability: Nov-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	E5335
CPU MHz:	2000
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:	Windows XP, 64 bit Edition
Compiler:	Intel C++ Compiler for EM64T-based applications - version 9.1, Build 20061104 Intel Fortran Compiler for EM64T-based applications - version 9.1, Build 20061104 Microsoft Visual Studio 2005 (for libraries)
Auto Parallel:	No
File System:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: SATA II 7200 rpm
Other Hardware: None

System State: Default
Base Pointers: 64-bit
Peak Pointers: 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	8	**3238**	**33.6**	3239	33.6	3235	33.6	8	**3236**	**33.6**	3241	33.5	3236	33.6
416.gamess	8	1457	108	1456	108	**1456**	**108**	8	1457	108	1456	108	**1456**	**108**
433.milc	8	3341	22.0	**3340**	**22.0**	3340	22.0	8	3349	21.9	**3352**	**21.9**	3356	21.9
434.zeusmp	8	**1247**	**58.4**	1285	56.6	1243	58.6	8	**1247**	**58.4**	1285	56.6	1243	58.6
435.gromacs	8	591	96.6	592	96.5	**591**	**96.6**	8	577	98.9	578	98.8	**578**	**98.8**
436.cactusADM	8	**1498**	**63.8**	1496	63.9	1501	63.7	8	**1471**	**65.0**	1448	66.0	1472	65.0
437.leslie3d	8	**3131**	**24.0**	3130	24.0	3131	24.0	8	**3131**	**24.0**	3130	24.0	3131	24.0
444.namd	8	773	83.0	**773**	**83.0**	774	82.9	8	773	83.0	**773**	**83.0**	774	82.9
447.dealII	8	1236	74.1	1244	73.6	**1242**	**73.7**	8	1200	76.3	1208	75.8	**1206**	**75.9**
450.soplex	8	2226	30.0	**2225**	**30.0**	2224	30.0	8	2195	30.4	2197	30.4	**2196**	**30.4**
453.povray	8	**395**	**108**	395	108	394	108	8	303	140	**303**	**140**	303	140
454.calculix	8	**890**	**74.2**	889	74.2	898	73.5	8	857	77.0	874	75.5	**863**	**76.5**
459.GemsFDTD	8	3822	22.2	3817	22.2	**3822**	**22.2**	8	3822	22.2	3817	22.2	**3822**	**22.2**
465.tonto	8	1312	60.0	1273	61.8	**1297**	**60.7**	8	1292	60.9	1276	61.7	**1283**	**61.4**
470.lbm	8	4302	25.6	**4301**	**25.6**	4301	25.6	8	4309	25.5	4310	25.5	**4309**	**25.5**
481.wrf	8	**1932**	**46.2**	1932	46.2	1931	46.3	8	**1932**	**46.2**	1932	46.2	1931	46.3
482.sphinx3	8	**3465**	**45.0**	3461	45.0	3466	45.0	8	**3465**	**45.0**	3461	45.0	3466	45.0

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

Platform Notes

```
BIOS default settings have been used, except:
High Bandwith Option Enabled
```

General Notes

```
'start /b /wait /affinity' command is used to bind CPU(s) to processes


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http://www.fujitsu-siemens.com/countries
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc8 -Qc99 ifort
```

Base Portability Flags

410.bwaves: -DSPEC_CPU_P64
416.gamess: -DSPEC_CPU_P64
433.milc: -D_Complex= -DSPEC_CPU_P64
434.zeusmp: -DSPEC_CPU_P64
435.gromacs: -D_Complex= -DSPEC_CPU_P64
436.cactusADM: -D_Complex= -DSPEC_CPU_P64 -Qlowercase /assume:underscore
437.leslie3d: -DSPEC_CPU_P64
444.namd: -DSPEC_CPU_P64 /TP
447.dealII: -D_Complex= -DSPEC_CPU_P64 -DBOOST_NO_INTRINSIC_WCHAR_T -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
454.calculix: -D_Complex= -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER -Qlowercase
459.GemsFDTD: -DSPEC_CPU_P64
465.tonto: -DSPEC_CPU_P64
470.lbm: -D_Complex= -DSPEC_CPU_P64
481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
482.sphinx3: -D_Complex= -DSPEC_CPU_P64

Base Optimization Flags

C benchmarks:
```
-fast -F950000000
```

C++ benchmarks:
```
-fast -Qcxx-features -F950000000
```

Fortran benchmarks:
```
-fast -F950000000
```

Continued on next page

Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:
`-fast -F950000000`

Peak Compiler Invocation

C benchmarks:
`icl -Qvc8 -Qc99`

C++ benchmarks:
`icl -Qvc8`

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icl -Qvc8 -Qc99 ifort`

Peak Portability Flags

`Same as Base Portability Flags`

Peak Optimization Flags

C benchmarks:

433.milc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -F950000000`

470.lbm: `Same as 433.milc`

482.sphinx3: `basepeak = yes`

C++ benchmarks:

444.namd: `basepeak = yes`

447.dealII: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qcxx-features -F950000000`

450.soplex: `Same as 447.dealII`

453.povray: `Same as 447.dealII`

Fortran benchmarks:

Continued on next page

Peak Optimization Flags (Continued)

410.bwaves: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -F950000000`

416.gamess: `basepeak = yes`

434.zeusmp: `basepeak = yes`

437.leslie3d: `basepeak = yes`

459.GemsFDTD: `basepeak = yes`

465.tonto: `Same as 410.bwaves`

Benchmarks using both Fortran and C:

435.gromacs: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -F950000000`

436.cactusADM: `Same as 435.gromacs`

454.calculix: `Same as 435.gromacs`

481.wrf: `basepeak = yes`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.20.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.20.xml`

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:43:24 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 20 March 2007.