SPEC® CFP2006 Result
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Fujitsu

CELSIUS W410, Intel Core i7-2600

$SPECfp^{®}\_rate2006 =$ 120

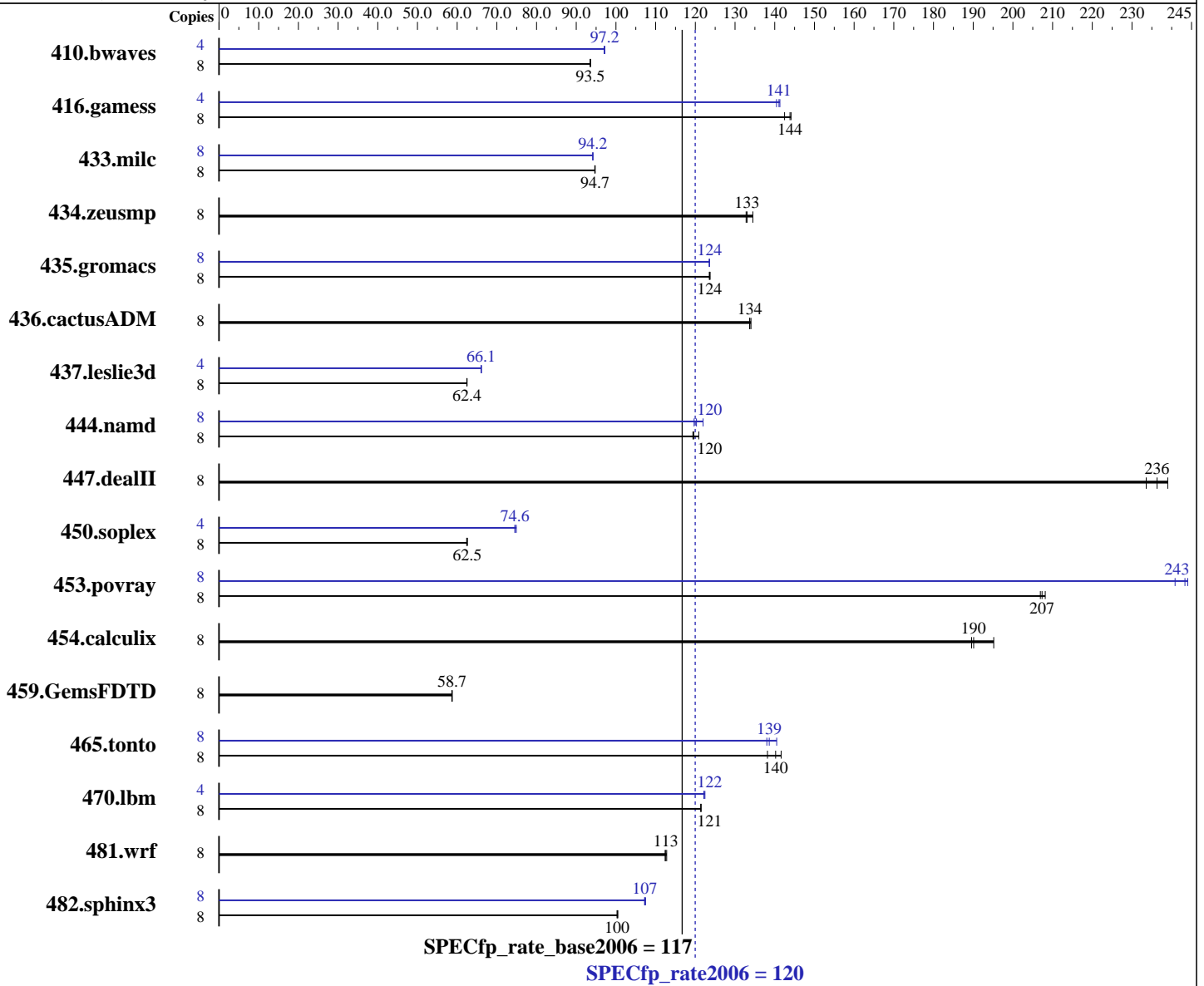$SPECfp\_rate\_base2006 =$ 117

CPU2006 license: 19
Test sponsor: Fujitsu
Tested by: Fujitsu

Test date: Jun-2011
Hardware Availability: Mar-2011
Software Availability: Jan-2011

Copies 0   10.0   20.0   30.0   40.0   50.0   60.0   70.0   80.0   90.0   100   110   120   130   140   150   160   170   180   190   200   210   220   230   245

Benchmark	Copies	Value
410.bwaves	4	97.2
	8	93.5
416.gamess	4	141
	8	144
433.milc	8	94.2
	8	94.7
434.zeusmp	8	133
435.gromacs	8	124
	8	124
436.cactusADM	8	134
437.leslie3d	4	66.1
	8	62.4
444.namd	8	120
	8	120
447.dealII	8	236
450.soplex	4	74.6
	8	62.5
453.povray	8	243
	8	207
454.calculix	8	190
459.GemsFDTD	8	58.7
465.tonto	8	139
	8	140
470.lbm	4	122
	8	121
481.wrf	8	113
482.sphinx3	8	107
	8	100

SPECfp_rate_base2006 = 117

SPECfp_rate2006 = 120

Hardware

CPU Name: Intel Core i7-2600
CPU Characteristics: Intel Turbo Boost Technology up to 3.8 GHz
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core

Continued on next page

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64) SP1, kernel 2.6.32.12-0.6-default
Compiler: Intel C++ and Fortran Intel 64 Compiler XE for applications running on Intel 64 Version 12.0.2.137 Build 20110112
Auto Parallel: No
File System: ext3
System State: Run Level 3 (multi-user)
Base Pointers: 64-bit

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L3 Cache:	8 MB I+D on chip per chip	Peak Pointers:	32/64-bit
Other Cache:	None	Other Software:	None
Memory:	8 GB (2 x 4 GB 2Rx8 PC3-10600U-9)		
Disk Subsystem:	1 x SATA II, 400 GB, 7200 rpm		
Other Hardware:	None		

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	1162	93.6	1163	93.5	**1162**	**93.5**	4	559	97.2	**559**	**97.2**	560	97.0
416.gamess	8	1087	144	1099	142	**1089**	**144**	4	**555**	**141**	554	141	558	140
433.milc	8	**775**	**94.7**	775	94.8	776	94.7	8	**780**	**94.2**	780	94.2	780	94.2
434.zeusmp	8	541	134	**547**	**133**	548	133	8	541	134	**547**	**133**	548	133
435.gromacs	8	462	124	**462**	**124**	462	124	8	462	124	462	124	**462**	**124**
436.cactusADM	8	713	134	715	134	**715**	**134**	8	713	134	715	134	**715**	**134**
437.leslie3d	8	**1204**	**62.4**	1205	62.4	1203	62.5	4	**569**	**66.1**	569	66.0	569	66.1
444.namd	8	531	121	537	119	**536**	**120**	8	536	120	**533**	**120**	526	122
447.dealII	8	383	239	**387**	**236**	392	234	8	383	239	**387**	**236**	392	234
450.soplex	8	**1067**	**62.5**	1069	62.4	1067	62.5	4	**447**	**74.6**	448	74.5	445	74.9
453.povray	8	206	207	**205**	**207**	204	208	8	174	244	177	241	**175**	**243**
454.calculix	8	338	195	348	190	**347**	**190**	8	338	195	348	190	**347**	**190**
459.GemsFDTD	8	1445	58.7	1447	58.7	**1445**	**58.7**	8	1445	58.7	1447	58.7	**1445**	**58.7**
465.tonto	8	570	138	556	142	**561**	**140**	8	560	140	570	138	**568**	**139**
470.lbm	8	905	121	906	121	**905**	**121**	4	449	122	**450**	**122**	450	122
481.wrf	8	795	112	**794**	**113**	792	113	8	795	112	**794**	**113**	792	113
482.sphinx3	8	1552	100	1555	100	**1554**	**100**	8	1451	107	**1453**	**107**	1454	107

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

Submit Notes

    The config file option 'submit' was used.
     numactl was used to bind copies to the cores

Operating System Notes

     'ulimit -s unlimited' was used to set the stack size to unlimited prior to run
     Huge pages were not configured for this run

Base Compiler Invocation

    C benchmarks:
        icc   -m64

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Base Compiler Invocation (Continued)

C++ benchmarks:
    icpc   -m64

Fortran benchmarks:
    ifort -m64

Benchmarks using both Fortran and C:
    icc   -m64 ifort -m64

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:
    -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

C++ benchmarks:
    -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

Fortran benchmarks:
    -xAVX -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:
    -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

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Peak Compiler Invocation

C benchmarks (except as noted below):
    icc   -m64

    482.sphinx3: `icc -m32`

C++ benchmarks (except as noted below):
    icpc   -m64

    450.soplex: `icpc -m32`

Fortran benchmarks:
    ifort -m64

Benchmarks using both Fortran and C:
    icc   -m64 ifort -m64

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`
           470.lbm: `-DSPEC_CPU_LP64`
           481.wrf: `-DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX`

Peak Optimization Flags

C benchmarks:

        433.milc: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
                `-no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32`

        470.lbm: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
                `-no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3`
                `-ansi-alias -opt-prefetch -auto-ilp32`

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Peak Optimization Flags (Continued)

482.sphinx3: -xAVX -ipo -O3 -no-prec-div -unroll2

C++ benchmarks:

444.namd: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -fno-alias
-auto-ilp32

447.dealII: basepeak = yes

450.soplex: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

453.povray: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

Fortran benchmarks:

410.bwaves: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -static

416.gamess: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2
-inline-level=0 -scalar-rep- -static

434.zeusmp: basepeak = yes

437.leslie3d: -xAVX -ipo -O3 -no-prec-div
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

459.GemsFDTD: basepeak = yes

465.tonto: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -auto
-inline-calloc -opt-malloc-options=3
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

Benchmarks using both Fortran and C:

435.gromacs: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch
-static -auto-ilp32

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

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Peak Optimization Flags (Continued)

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html
http://www.spec.org/cpu2006/flags/Fujitsu_CELSIUS_Platform.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml
http://www.spec.org/cpu2006/flags/Fujitsu_CELSIUS_Platform.xml

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

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