SPEC® CFP2006 Result
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Fujitsu

PRIMERGY TX100 S3, Intel Core i3-2100, 3.10 GHz

$SPECfp®\_rate2006 = 74.5$
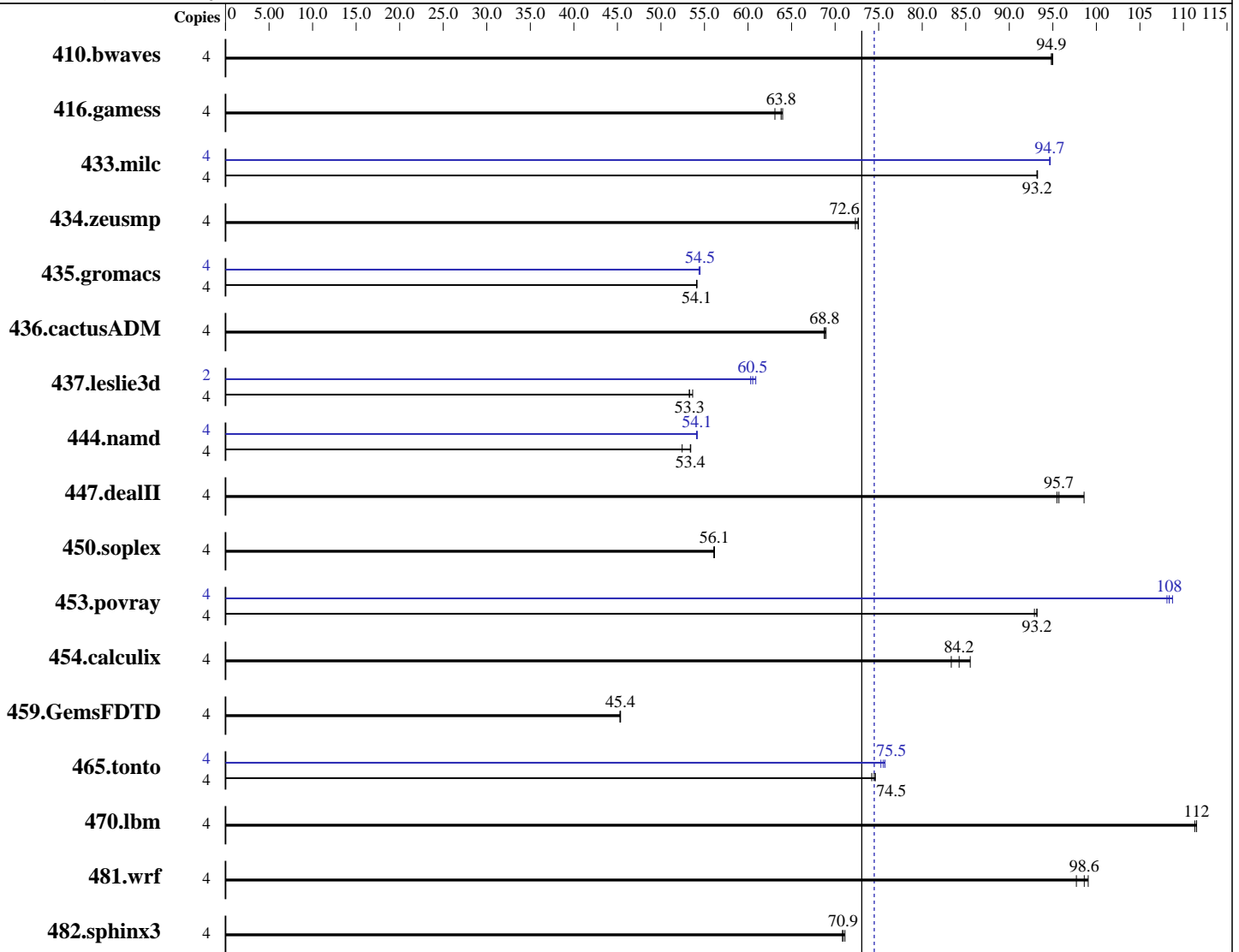
$SPECfp\_rate\_base2006 = 73.1$

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

Test date: Jul-2011
Hardware Availability: Sep-2011
Software Availability: Jan-2011

Benchmark	Copies	Result
410.bwaves	4	94.9
416.gamess	4	63.8
433.milc	4	94.7
433.milc	4	93.2
434.zeusmp	4	72.6
435.gromacs	4	54.5
435.gromacs	4	54.1
436.cactusADM	4	68.8
437.leslie3d	2	60.5
437.leslie3d	4	53.3
444.namd	4	54.1
444.namd	4	53.4
447.dealII	4	95.7
450.soplex	4	56.1
453.povray	4	108
453.povray	4	93.2
454.calculix	4	84.2
459.GemsFDTD	4	45.4
465.tonto	4	75.5
465.tonto	4	74.5
470.lbm	4	112
481.wrf	4	98.6
482.sphinx3	4	70.9

SPECfp_rate_base2006 = 73.1

SPECfp_rate2006 = 74.5

Hardware

CPU Name:	Intel Core i3-2100
CPU Characteristics:	
CPU MHz:	3100
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 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) with SP1, Kernel 2.6.32.12-0.7-default
Compiler:	Intel C++ and Fortran Intel 64 Compiler XE for applications running on Intel 64 Version 12.0.1.116 Build 20101116
Auto Parallel:	No
File System:	ext3
System State:	Run level 3 (multi-user)
Base Pointers:	64-bit

Continued on next page

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L3 Cache:	3 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 PC3-10600E-9, ECC)		
Disk Subsystem:	1 x SATA, 500 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	4	572	95.0	**573**	**94.9**	573	94.8	4	572	95.0	**573**	**94.9**	573	94.8
416.gamess	4	1224	64.0	**1228**	**63.8**	1241	63.1	4	1224	64.0	**1228**	**63.8**	1241	63.1
433.milc	4	394	93.2	394	93.2	**394**	**93.2**	4	388	94.6	**388**	**94.7**	388	94.7
434.zeusmp	4	501	72.7	503	72.3	**501**	**72.6**	4	501	72.7	503	72.3	**501**	**72.6**
435.gromacs	4	527	54.1	**528**	**54.1**	528	54.1	4	**524**	**54.5**	525	54.4	524	54.5
436.cactusADM	4	695	68.8	**695**	**68.8**	693	69.0	4	695	68.8	**695**	**68.8**	693	69.0
437.leslie3d	4	701	53.6	**706**	**53.3**	706	53.3	2	312	60.3	**311**	**60.5**	309	60.9
444.namd	4	601	53.4	**601**	**53.4**	612	52.4	4	593	54.1	592	54.2	**593**	**54.1**
447.dealII	4	464	98.6	479	95.5	**478**	**95.7**	4	464	98.6	479	95.5	**478**	**95.7**
450.soplex	4	594	56.1	**594**	**56.1**	595	56.1	4	594	56.1	**594**	**56.1**	595	56.1
453.povray	4	228	93.2	**228**	**93.2**	229	92.9	4	**196**	**108**	196	109	197	108
454.calculix	4	**392**	**84.2**	396	83.3	386	85.5	4	**392**	**84.2**	396	83.3	386	85.5
459.GemsFDTD	4	937	45.3	936	45.4	**936**	**45.4**	4	937	45.3	936	45.4	**936**	**45.4**
465.tonto	4	530	74.2	**528**	**74.5**	527	74.6	4	**521**	**75.5**	523	75.3	520	75.7
470.lbm	4	494	111	**493**	**112**	493	112	4	494	111	**493**	**112**	493	112
481.wrf	4	451	99.1	457	97.7	**453**	**98.6**	4	451	99.1	457	97.7	**453**	**98.6**
482.sphinx3	4	**1099**	**70.9**	1100	70.8	1096	71.1	4	**1099**	**70.9**	1100	70.8	1096	71.1

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 stacksize to unlimited prior to run
Large pages were not enabled for this run

General Notes

For information about Fujitsu please visit: http://www.fujitsu.com
Binaries were compiled on RHEL5.5

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Base Compiler Invocation

C benchmarks:
```
icc   -m64
```

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:
    `icc    -m64`

C++ benchmarks:
    `icpc   -m64`

Fortran benchmarks:
    `ifort -m64`

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

Peak Portability Flags

`Same as Base Portability Flags`

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: `basepeak = yes`

  482.sphinx3: `basepeak = yes`

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: `basepeak = yes`

    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: `basepeak = yes`

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Peak Optimization Flags (Continued)

416.gamess: basepeak = yes

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

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.20110316.html
http://www.spec.org/cpu2006/flags/Fujitsu-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.20110316.xml
http://www.spec.org/cpu2006/flags/Fujitsu-Platform.xml

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

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