



SPEC® CFP2006 Result

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Fujitsu

PRIMERGY RX300 S5, Intel Xeon X5550, 2.67 GHz

SPECfp®2006 = 38.0

SPECfp_base2006 = 35.8

CPU2006 license: 19

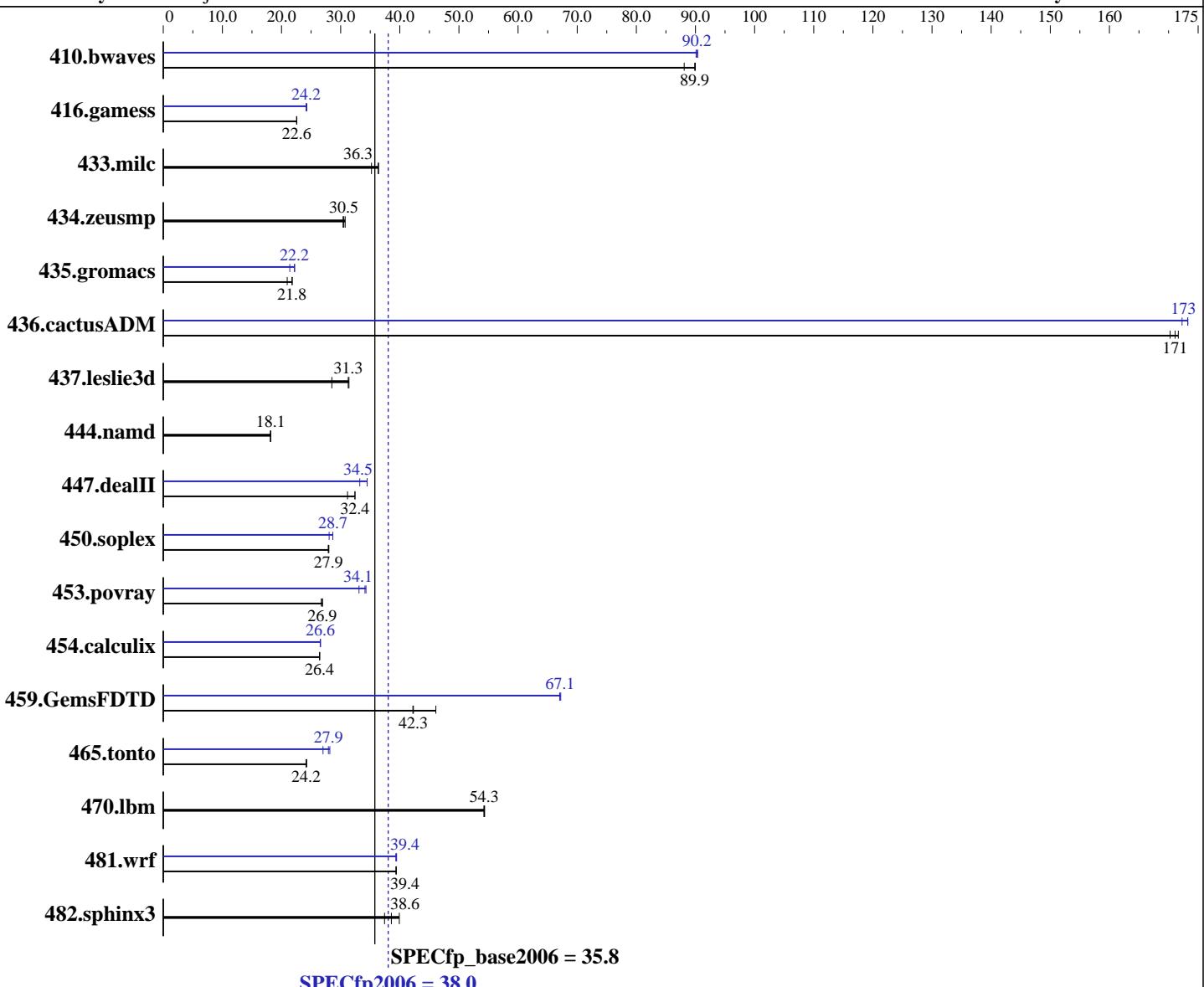
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Jun-2009

Hardware Availability: Apr-2009

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon X5550
CPU Characteristics: Intel Turbo Boost Technology up to 3.07 GHz
CPU MHz: 2667
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp
Compiler: Intel C++ and Fortran Compiler 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.080, l_cprof_p_11.0.080
Auto Parallel: Yes
File System: ext3
System State: Multi-User Run Level 3
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:	Binutils 2.18.50.0.7.20080502
Memory:	24 GB (6x4 GB PC3-10600R, 2 rank, CL9-9-9, ECC)		
Disk Subsystem:	1 x SATA, 250 GB, 7200 RPM		
Other Hardware:	None		

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	154	88.1	151	90.0	<u>151</u>	<u>89.9</u>	151	90.1	<u>151</u>	<u>90.2</u>	150	90.4
416.gamess	867	22.6	<u>868</u>	<u>22.6</u>	868	22.6	<u>810</u>	24.2	807	24.3	<u>810</u>	<u>24.2</u>
433.milc	252	36.4	261	35.2	<u>253</u>	<u>36.3</u>	<u>252</u>	36.4	261	35.2	<u>253</u>	<u>36.3</u>
434.zeusmp	<u>298</u>	<u>30.5</u>	299	30.4	296	30.8	<u>298</u>	<u>30.5</u>	299	30.4	296	30.8
435.gromacs	341	21.0	<u>328</u>	<u>21.8</u>	327	21.8	321	22.2	<u>322</u>	<u>22.2</u>	334	21.4
436.cactusADM	70.2	170	69.6	172	<u>69.8</u>	<u>171</u>	69.0	173	69.4	172	<u>69.0</u>	<u>173</u>
437.leslie3d	<u>301</u>	<u>31.3</u>	330	28.5	299	31.4	<u>301</u>	<u>31.3</u>	330	28.5	299	31.4
444.namd	442	18.2	<u>442</u>	<u>18.1</u>	442	18.1	<u>442</u>	18.2	<u>442</u>	<u>18.1</u>	442	18.1
447.dealII	353	32.4	<u>353</u>	<u>32.4</u>	367	31.2	<u>344</u>	33.2	<u>332</u>	<u>34.5</u>	332	34.5
450.soplex	<u>299</u>	<u>27.9</u>	299	27.9	298	28.0	<u>291</u>	<u>28.7</u>	297	28.0	291	28.7
453.povray	198	26.9	<u>198</u>	<u>26.9</u>	199	26.7	<u>161</u>	33.1	<u>155</u>	34.3	<u>156</u>	<u>34.1</u>
454.calculix	312	26.5	<u>312</u>	<u>26.4</u>	312	26.4	<u>310</u>	26.6	311	26.5	<u>310</u>	<u>26.6</u>
459.GemsFDTD	251	42.2	230	46.1	<u>251</u>	<u>42.3</u>	158	67.2	158	67.0	<u>158</u>	<u>67.1</u>
465.tonto	406	24.2	<u>407</u>	<u>24.2</u>	408	24.1	<u>352</u>	<u>27.9</u>	364	27.0	349	28.2
470.lbm	<u>253</u>	<u>54.3</u>	253	54.3	253	54.2	<u>253</u>	<u>54.3</u>	253	54.3	253	54.2
481.wrf	<u>284</u>	<u>39.4</u>	284	39.4	284	39.4	<u>284</u>	<u>39.3</u>	<u>283</u>	<u>39.4</u>	283	39.5
482.sphinx3	<u>505</u>	<u>38.6</u>	521	37.4	488	39.9	<u>505</u>	<u>38.6</u>	<u>521</u>	37.4	488	39.9

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

General Notes

OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to granularity=fine,scatter
KMP_STACKSIZE set to 200M

This result was measured on the PRIMERGY TX300 S5. The PRIMERGY TX300 S5 and the PRIMERGY RX300 S5 are electronically equivalent.

For information about Fujitsu please visit: <http://www.fujitsu.com>



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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

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:
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Fortran benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch



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Peak Compiler Invocation

C benchmarks:
icc

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

450.soplex: icpc -m32

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

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
482.sphinx3: -DSPEC_CPU_LP64

Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes
470.lbm: basepeak = yes
482.sphinx3: basepeak = yes

C++ benchmarks:

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Peak Optimization Flags (Continued)

444.namd: basepeak = yes

447.dealII: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -ansi-alias -scalar-rep -opt-prefetch

450.soplex: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-malloc-options=3

453.povray: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xsSE4 .2 -ipo -O3 -no-prec-div -static -opt-prefetch
-parallel

416.gamess: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -Ob0 -ansi-alias -scalar-rep-

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -Ob0 -opt-prefetch -parallel

465.tonto: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-prefetch -auto-ilp32

436.cactusADM: -xsSE4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -opt-prefetch -parallel -auto-ilp32

454.calculix: -xsSE4 .2 -ipo -O3 -no-prec-div -static -auto-ilp32

481.wrf: -xsSE4 .2 -ipo -O3 -no-prec-div -static -opt-prefetch
-parallel -auto-ilp32



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The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20091013.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20091013.xml>

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