



SPEC® CFP2006 Result

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Fujitsu

PRIMERGY BX924 S2, Intel Xeon E5506, 2.13 GHz

SPECfp®2006 = 27.9

SPECfp_base2006 = 25.9

CPU2006 license: 19

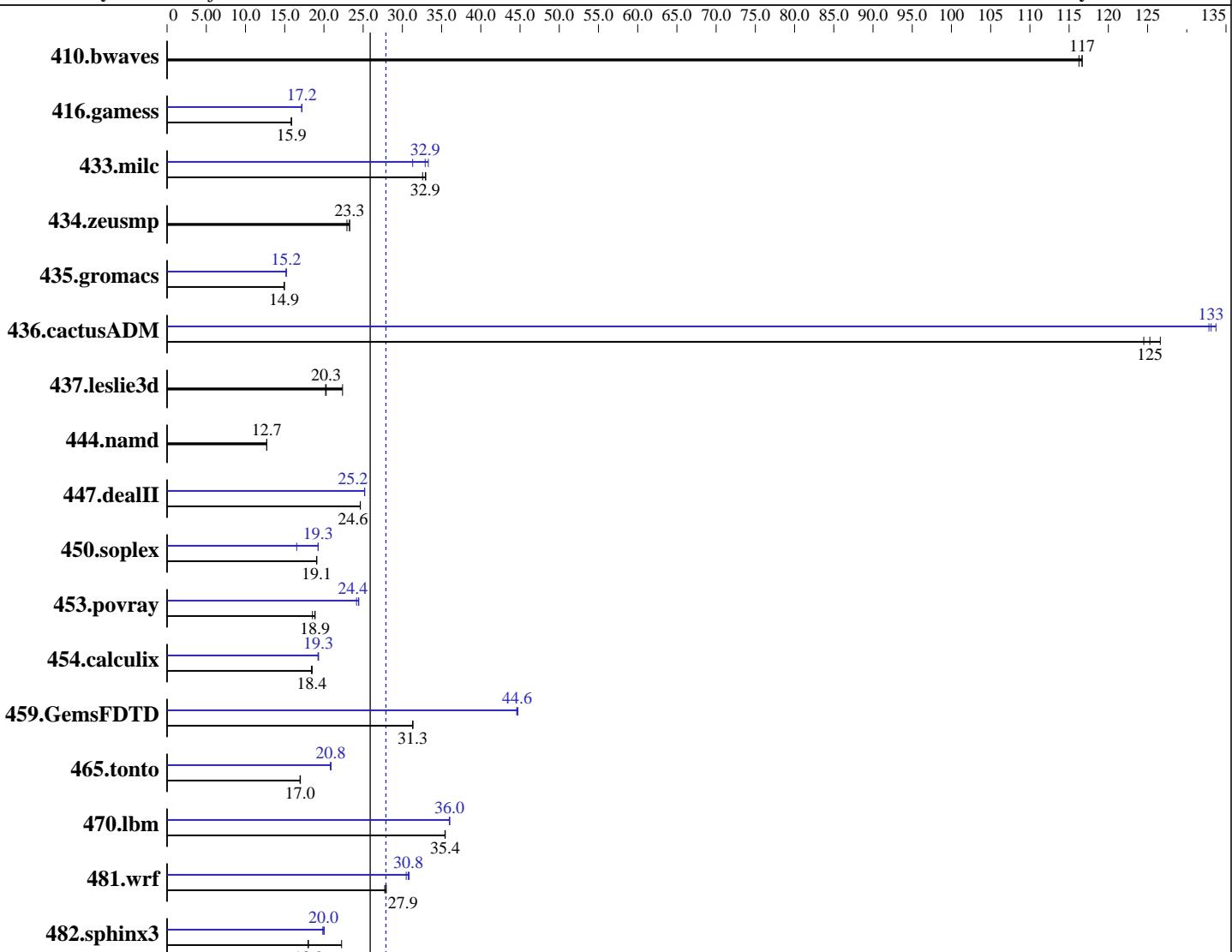
Test date: Aug-2010

Test sponsor: Fujitsu

Hardware Availability: Jun-2010

Tested by: Fujitsu

Software Availability: Jan-2010



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Hardware

CPU Name: Intel Xeon E5506
 CPU Characteristics:
 CPU MHz: 2133
 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: 256 KB I+D on chip per core

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-default
 Compiler: Intel C++ and Fortran Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l_cproc_p_11.1.064, l_cprof_p_11.1.064
 Auto Parallel: Yes
 File System: ext3
 System State: Run level 3 (multi-user)

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L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 48 GB (12x4 GB PC3-10600R, 2 rank, CL9-9-9, ECC,
 see add'l detail in notes)
 Disk Subsystem: 1 x SATA, 160 GB, 5400 RPM
 Other Hardware: None

Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	117	117	116	117	117	116	117	117	116	117	117	116
416.gamess	1234	15.9	1237	15.8	1234	15.9	1139	17.2	1140	17.2	1140	17.2
433.milc	282	32.6	278	33.0	279	32.9	279	32.9	276	33.3	293	31.3
434.zeusmp	391	23.3	391	23.3	397	22.9	391	23.3	391	23.3	397	22.9
435.gromacs	478	14.9	478	14.9	478	14.9	470	15.2	470	15.2	470	15.2
436.cactusADM	94.4	127	96.0	125	95.4	125	90.0	133	89.4	134	89.8	133
437.leslie3d	463	20.3	465	20.2	420	22.4	463	20.3	465	20.2	420	22.4
444.namd	631	12.7	631	12.7	631	12.7	631	12.7	631	12.7	631	12.7
447.dealII	464	24.6	465	24.6	464	24.6	454	25.2	454	25.2	454	25.2
450.soplex	437	19.1	437	19.1	437	19.1	433	19.3	433	19.3	505	16.5
453.povray	282	18.9	282	18.9	287	18.5	218	24.4	218	24.4	220	24.2
454.calculix	446	18.5	447	18.4	448	18.4	428	19.3	427	19.3	429	19.2
459.GemsFDTD	339	31.3	339	31.3	339	31.3	237	44.7	238	44.6	238	44.6
465.tonto	580	17.0	579	17.0	580	17.0	471	20.9	472	20.8	472	20.8
470.lbm	387	35.5	388	35.4	388	35.4	381	36.0	382	36.0	381	36.0
481.wrf	403	27.8	400	27.9	401	27.9	363	30.8	362	30.9	366	30.5
482.sphinx3	1081	18.0	1085	18.0	876	22.3	982	19.8	976	20.0	973	20.0

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

Platform Notes

The system automatically configures the memory to run at 800 MHz.

General Notes

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

Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502
 For information about Fujitsu please visit: <http://www.fujitsu.com>



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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:

-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 -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: -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)
-ansi-alias

470.lbm: -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)
-parallel -ansi-alias -auto-ilp32

482.sphinx3: -xSSE4.2 -ipo -O3 -no-prec-div -static -auto-ilp32
-unroll2

C++ benchmarks:

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 -auto-ilp32

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 -auto-ilp32

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

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Peak Optimization Flags (Continued)

Fortran benchmarks:

```
410.bwaves: basepeak = yes  
  
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 -Obo -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 -Obo -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)  
            -inline-calloc -opt-malloc-options=3 -auto -unroll4
```

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: Same as 454.calculix
```

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100330.02.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100330.02.xml>



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