



SPEC® CFP2006 Result

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Acer Incorporated

SPECfp®_rate2006 = 44.3

Acer Altos G330 Mk2 (Intel Xeon X3320)

SPECfp_rate_base2006 = 42.0

CPU2006 license: 97

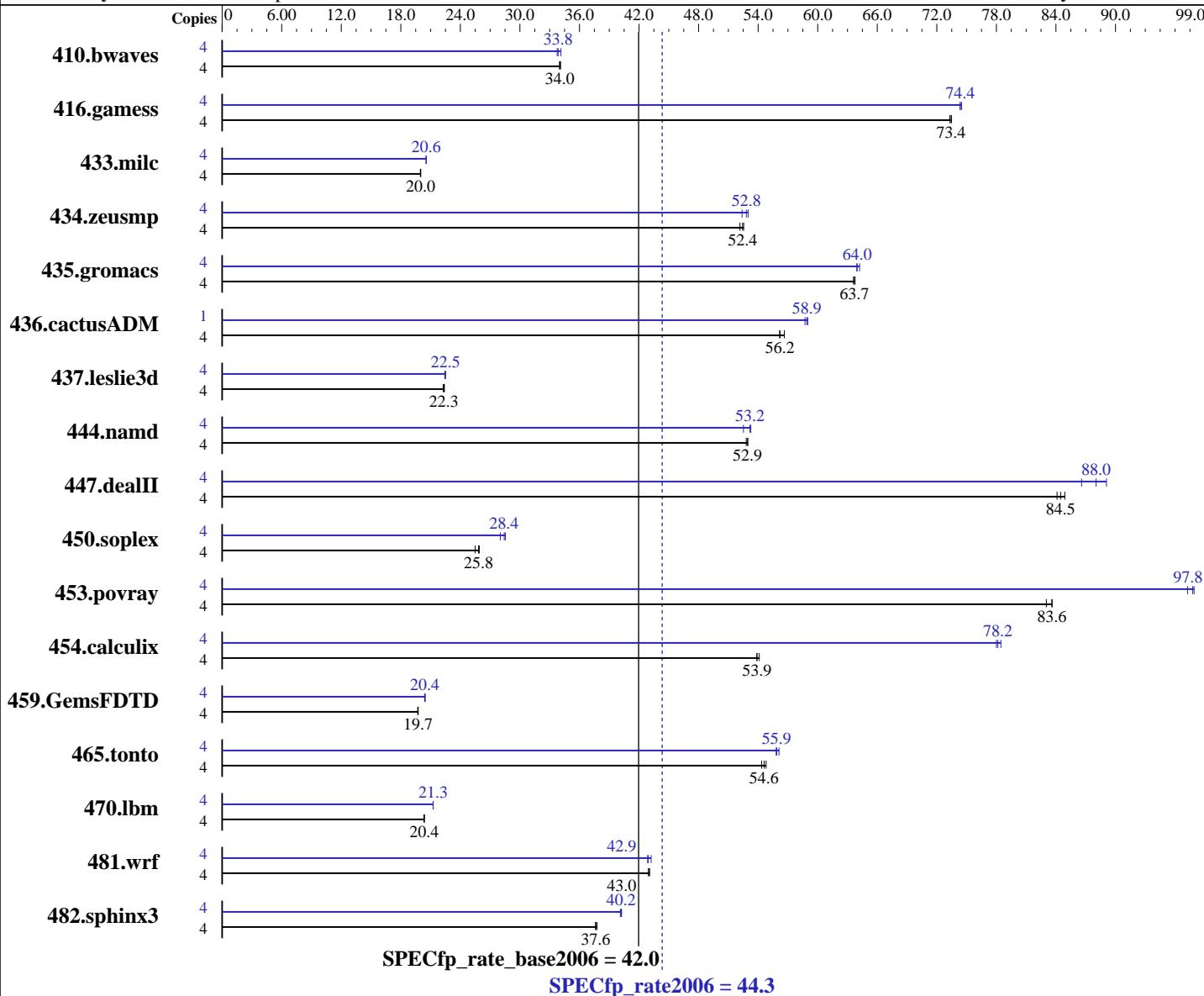
Test date: Apr-2008

Test sponsor: Acer Incorporated

Hardware Availability: Mar-2008

Tested by: Acer Incorporated

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X3320
CPU Characteristics: 1333 MHz system bus
CPU MHz: 2500
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 6 MB I+D on chip per chip, 3 MB shared / 2 cores

Software

Operating System: SUSE Linux Enterprise Server 10 SP1 (x86_64)
Compiler: Kernel 2.6.16.46-0.12-smp
Intel C++ and Fortran Compiler 10.1 for Linux
Build 20070913 Package ID: 1_cc_p_10.1.008,
l_fc_p_10.1.008
Auto Parallel: Yes
File System: ReiserFS
System State: Multi-user, level 3
Base Pointers: 64-bit

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L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4 x 2048 MB ECC Unbuffered DDR2-800 CL5)
 Disk Subsystem: 1 x 160 GB 7200RPM SATA HDD
 Other Hardware: None

Peak Pointers: 32/64-bit
 Other Software: Binutils 2.17.50.0.15

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1597	34.0	1594	34.1	1600	34.0	4	1611	33.8	1593	34.1	1606	33.8
416.gamess	4	1066	73.5	1066	73.4	1068	73.3	4	1051	74.5	1053	74.3	1053	74.4
433.milc	4	1836	20.0	1839	20.0	1836	20.0	4	1786	20.6	1788	20.5	1785	20.6
434.zeusmp	4	694	52.4	693	52.5	698	52.2	4	687	53.0	695	52.4	689	52.8
435.gromacs	4	448	63.8	448	63.7	449	63.6	4	447	63.9	446	64.0	445	64.2
436.cactusADM	4	844	56.6	851	56.2	851	56.2	1	203	59.0	204	58.7	203	58.9
437.leslie3d	4	1682	22.3	1679	22.4	1688	22.3	4	1671	22.5	1671	22.5	1676	22.4
444.namd	4	608	52.8	606	52.9	606	53.0	4	611	52.5	603	53.2	602	53.3
447.dealII	4	539	84.9	542	84.5	544	84.1	4	520	88.0	529	86.6	514	89.1
450.soplex	4	1308	25.5	1291	25.8	1288	25.9	4	1190	28.0	1174	28.4	1169	28.5
453.povray	4	254	83.6	255	83.6	256	83.0	4	218	97.8	217	97.9	219	97.3
454.calculix	4	613	53.9	612	53.9	610	54.1	4	422	78.2	423	78.0	421	78.5
459.GemsFDTD	4	2154	19.7	2149	19.7	2150	19.7	4	2077	20.4	2074	20.5	2081	20.4
465.tonto	4	721	54.6	724	54.4	718	54.8	4	705	55.8	704	55.9	702	56.1
470.lbm	4	2701	20.3	2699	20.4	2699	20.4	4	2586	21.3	2585	21.3	2585	21.3
481.wrf	4	1040	43.0	1037	43.1	1040	43.0	4	1034	43.2	1042	42.9	1041	42.9
482.sphinx3	4	2072	37.6	2064	37.8	2071	37.6	4	1943	40.1	1937	40.2	1939	40.2

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

General Notes

All benchmarks compiled in 64-bit mode except 450.soplex, 470.lbm, 482.sphinx3 and 437.leslie3d, at peak, are compiled in 32-bit mode.

All results but peak 436.cactusADM used taskset to bind processes to cores.

"ulimit -s unlimited" was set for stacksize to unlimited OMP_NUM_THREADS set to number of cores

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.games: -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:

-fast

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast



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Peak Compiler Invocation

C benchmarks (except as noted below):

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

433.milc: icc

C++ benchmarks (except as noted below):

```
icpc
```

```
450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

Fortran benchmarks (except as noted below):

```
ifort
```

```
437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib  
-I/opt/intel/fc/10.1.008/include
```

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

Peak Optimization Flags

C benchmarks:

```
433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias  
-auto-ilp32
```

```
470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12  
-scalar-rep -prefetch -opt-malloc-options=3
```

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Peak Optimization Flags (Continued)

482.sphinx3: -fast -unroll12

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.xml>

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