



SPEC® CFP2006 Result

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Acer Incorporated

SPECfp®_rate2006 = 47.4

Acer Altos G540 (Intel Xeon E5320)

SPECfp_rate_base2006 = 44.8

CPU2006 license: 97

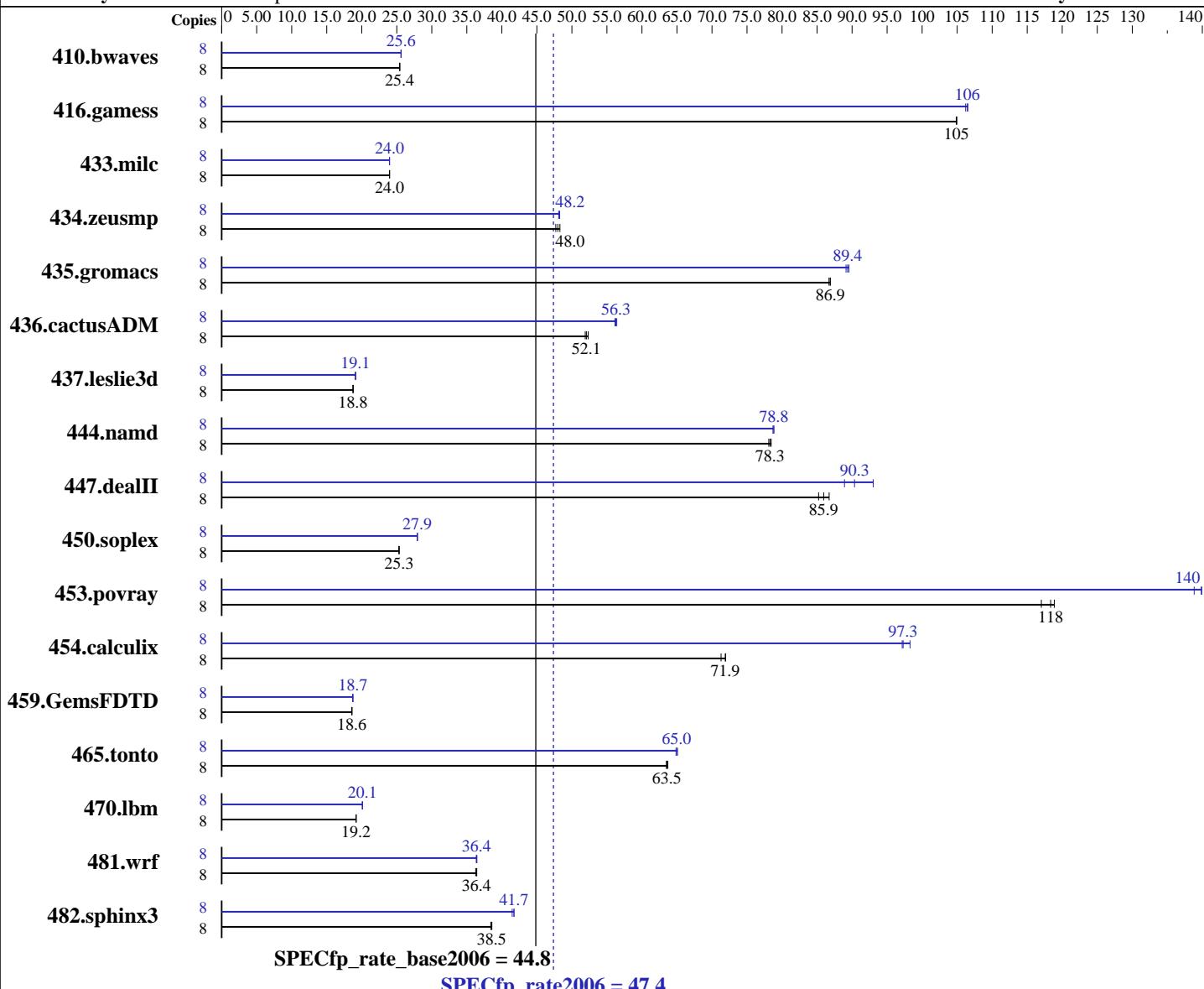
Test date: Sep-2007

Test sponsor: Acer Incorporated

Hardware Availability: Nov-2006

Tested by: Acer Incorporated

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5320
CPU Characteristics: 1066MHz system bus
CPU MHz: 1860
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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Software

Operating System: SUSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)
Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725
Auto Parallel: No
File System: ReiserFS
System State: Multi-user, run level 3
Base Pointers: 64-bit

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L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 x 2048MB ECC FB-DIMM DDR2-667 CL5-5-5)
 Disk Subsystem: 1 x 73 GB 10000RPM SAS HDD
 Other Hardware: None

Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 8.1

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	4276	25.4	4278	25.4	4278	25.4	8	4244	25.6	4243	25.6	4247	25.6
416.gamess	8	1493	105	1493	105	1493	105	8	1475	106	1471	106	1470	107
433.milc	8	3065	24.0	3064	24.0	3064	24.0	8	3067	23.9	3066	24.0	3063	24.0
434.zeusmp	8	1517	48.0	1507	48.3	1526	47.7	8	1513	48.1	1510	48.2	1508	48.3
435.gromacs	8	657	86.9	657	86.9	659	86.7	8	638	89.5	639	89.4	641	89.1
436.cactusADM	8	1836	52.1	1827	52.3	1842	51.9	8	1702	56.2	1695	56.4	1699	56.3
437.leslie3d	8	4001	18.8	4013	18.7	4010	18.8	8	3939	19.1	3937	19.1	3931	19.1
444.namd	8	820	78.3	818	78.5	821	78.1	8	815	78.7	814	78.8	814	78.8
447.dealII	8	1055	86.7	1065	85.9	1074	85.2	8	984	93.0	1013	90.3	1029	88.9
450.soplex	8	2638	25.3	2633	25.3	2633	25.3	8	2389	27.9	2387	27.9	2389	27.9
453.povray	8	360	118	364	117	358	119	8	307	139	304	140	304	140
454.calculix	8	926	71.3	918	71.9	917	71.9	8	678	97.3	679	97.2	672	98.3
459.GemsFDTD	8	4574	18.6	4565	18.6	4562	18.6	8	4539	18.7	4531	18.7	4529	18.7
465.tonto	8	1236	63.7	1239	63.5	1240	63.5	8	1214	64.9	1212	65.0	1210	65.1
470.lbm	8	5729	19.2	5729	19.2	5727	19.2	8	5470	20.1	5470	20.1	5470	20.1
481.wrf	8	2456	36.4	2464	36.3	2454	36.4	8	2459	36.3	2455	36.4	2452	36.4
482.sphinx3	8	4058	38.4	4042	38.6	4047	38.5	8	3759	41.5	3737	41.7	3736	41.7

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

General Notes

taskset was used to bind copies to cores

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

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Base Compiler Invocation (Continued)

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:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks (except as noted below):

```
/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include
```

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Peak Compiler Invocation (Continued)

433.milc: `icc`

C++ benchmarks (except as noted below):

`icpc`

450.soplex: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icpc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

Fortran benchmarks (except as noted below):

`ifort`

437.leslie3d: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/ifort
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/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 -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-intel64-linux-flags.20090714.17.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-intel64-linux-flags.20090714.17.xml>

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