SPEC® CFP2006 Result
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Acer Incorporated

Acer Altos G540 (Intel Xeon 5140)

SPECfp®_rate2006 =   23.3

SPECfp_rate_base2006 = 21.6

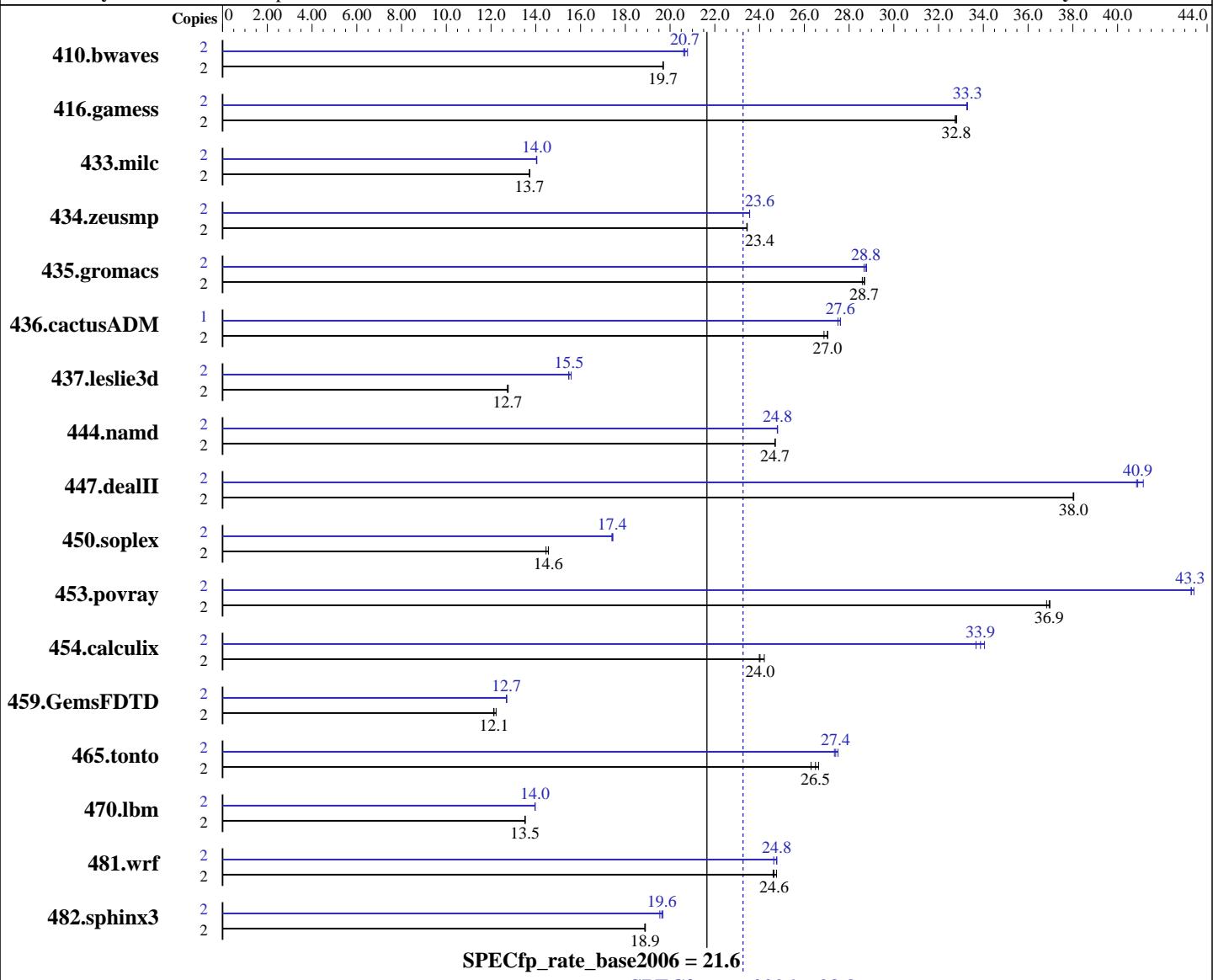**CPU2006 license:** 97　　　　　　　　　　　　　　　　**Test date:** Oct-2007
Test sponsor: Acer Incorporated　　　　　　　**Hardware Availability:** Nov-2006
Tested by: Acer Incorporated　　　　　　　**Software Availability:** Nov-2007

Copies		
410.bwaves	2	20.7
	2	19.7
416.gamess	2	33.3
	2	32.8
433.milc	2	14.0
	2	13.7
434.zeusmp	2	23.6
	2	23.4
435.gromacs	2	28.8
	2	28.7
436.cactusADM	1	27.6
	2	27.0
437.leslie3d	2	15.5
	2	12.7
444.namd	2	24.8
	2	24.7
447.dealII	2	40.9
	2	38.0
450.soplex	2	17.4
	2	14.6
453.povray	2	43.3
	2	36.9
454.calculix	2	33.9
	2	24.0
459.GemsFDTD	2	12.7
	2	12.1
465.tonto	2	27.4
	2	26.5
470.lbm	2	14.0
	2	13.5
481.wrf	2	24.8
	2	24.6
482.sphinx3	2	19.6
	2	18.9

SPECfp_rate_base2006 = 21.6

SPECfp_rate2006 = 23.3

Hardware
CPU Name: Intel Xeon 5140
CPU Characteristics: 1333MHz system bus
CPU MHz: 2330
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1, 2 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip

Continued on next page

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: Yes
File System: ReiserFS
System State: Multi-user, run level 3
Base Pointers: 64-bit

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L3 Cache: None	Peak Pointers: 32/64-bit
Other Cache: None	Other Software: MicroQuill SmartHeap Library 8.1
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	

Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1381	19.7	**1381**	**19.7**	1379	19.7	2	1319	20.6	**1316**	**20.7**	1308	20.8
416.gamess	2	1196	32.7	1194	32.8	**1194**	**32.8**	2	1177	33.3	1176	33.3	**1176**	**33.3**
433.milc	2	1338	13.7	**1338**	**13.7**	1338	13.7	2	1309	14.0	**1308**	**14.0**	1307	14.0
434.zeusmp	2	777	23.4	776	23.4	**776**	**23.4**	2	773	23.6	773	23.6	**773**	**23.6**
435.gromacs	2	498	28.7	**498**	**28.7**	499	28.6	2	496	28.8	**497**	**28.8**	498	28.7
436.cactusADM	2	884	27.1	889	26.9	**884**	**27.0**	1	433	27.6	435	27.5	**433**	**27.6**
437.leslie3d	2	1472	12.8	**1475**	**12.7**	1476	12.7	2	1215	15.5	**1215**	**15.5**	1206	15.6
444.namd	2	649	24.7	650	24.7	**650**	**24.7**	2	**647**	**24.8**	647	24.8	647	24.8
447.dealII	2	602	38.0	601	38.0	**602**	**38.0**	2	556	41.1	560	40.8	**559**	**40.9**
450.soplex	2	**1146**	**14.6**	1154	14.5	1145	14.6	2	**958**	**17.4**	959	17.4	956	17.4
453.povray	2	288	37.0	289	36.8	**288**	**36.9**	2	246	43.3	245	43.4	**246**	**43.3**
454.calculix	2	**687**	**24.0**	688	24.0	682	24.2	2	485	34.1	**487**	**33.9**	490	33.7
459.GemsFDTD	2	1752	12.1	**1749**	**12.1**	1736	12.2	2	1673	12.7	**1673**	**12.7**	1670	12.7
465.tonto	2	739	26.6	748	26.3	**743**	**26.5**	2	720	27.3	**718**	**27.4**	715	27.5
470.lbm	2	**2032**	**13.5**	2032	13.5	2034	13.5	2	1967	14.0	1968	14.0	**1967**	**14.0**
481.wrf	2	**906**	**24.6**	902	24.8	908	24.6	2	907	24.6	**902**	**24.8**	902	24.8
482.sphinx3	2	**2064**	**18.9**	2063	18.9	2066	18.9	2	1995	19.5	**1986**	**19.6**	1981	19.7

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

General Notes

```
taskset used to bind copies to cores, except for 436.cactusADM peak
OMP_NUM_THREADS was set to number of logical processors as seen by the OS
KMP_AFFINITY was set to physical,0
```

Base Compiler Invocation

C benchmarks:
```
icc
```

C++ benchmarks:
```
icpc
```

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Acer Incorporated	SPECfp_rate2006 =	23.3
Acer Altos G540 (Intel Xeon 5140)	SPECfp_rate_base2006 =	21.6

CPU2006 license: 97	**Test date:**	Oct-2007
Test sponsor: Acer Incorporated	**Hardware Availability:**	Nov-2006
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Base Compiler Invocation (Continued)

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:
```
-fast
```

C++ benchmarks:
```
-fast
```

Fortran benchmarks:
```
-fast
```

Benchmarks using both Fortran and C:
```
-fast
```

Peak Compiler Invocation

C benchmarks (except as noted below):
```
/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icc
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
```

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SPECfp_rate_base2006 = 21.6

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007

Peak Compiler Invocation (Continued)

C benchmarks (except as noted below) (continued):
```
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include
```

   433.milc: `icc`

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

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

Fortran benchmarks (except as noted below):
```
ifort
```

   437.leslie3d: `/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/ifort`
   `-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib`
   `-I/home/cmplr/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`

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Peak Optimization Flags (Continued)

470.lbm: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -scalar-rep- -prefetch -opt-malloc-options=3`

482.sphinx3: `-fast -unroll2`

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 -unroll2 -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 -unroll4 -ansi-alias`

Fortran benchmarks:

410.bwaves: `-fast -prefetch`

416.gamess: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0 -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 -unroll2 -Ob0 -prefetch`

465.tonto: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -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 -unroll2 -prefetch -parallel -auto-ilp32`

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

481.wrf: `-fast -auto-ilp32`

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$SPECfp\_rate2006 = \qquad 23.3$

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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-ic10.1-FP-intel64-linux-flags.20090714.17.html`

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`

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

Tested with SPEC CPU2006 v1.0.
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