SPEC® CFP2006 Result
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Acer Incorporated

$SPECfp®\_rate2006 =$ 45.0

Acer Altos G540 (Intel Xeon E5310)

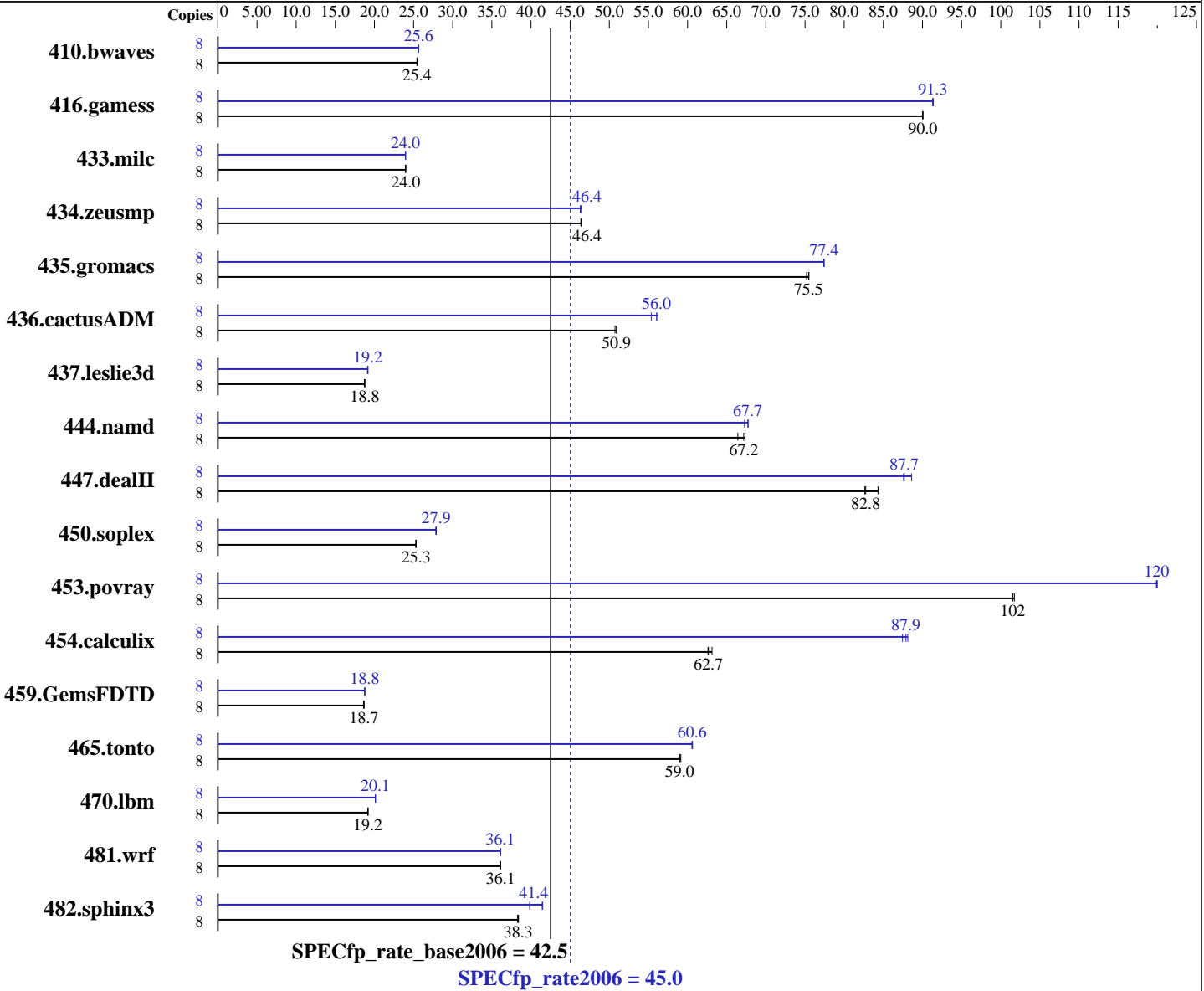$SPECfp\_rate\_base2006 =$ 42.5

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Oct-2007
Hardware Availability: Nov-2006
Software Availability: Nov-2007

Benchmark	Copies	Result (blue)	Result (black/base)
410.bwaves	8 / 8	25.6	25.4
416.gamess	8 / 8	91.3	90.0
433.milc	8 / 8	24.0	24.0
434.zeusmp	8 / 8	46.4	46.4
435.gromacs	8 / 8	77.4	75.5
436.cactusADM	8 / 8	56.0	50.9
437.leslie3d	8 / 8	19.2	18.8
444.namd	8 / 8	67.7	67.2
447.dealII	8 / 8	87.7	82.8
450.soplex	8 / 8	27.9	25.3
453.povray	8 / 8	120	102
454.calculix	8 / 8	87.9	62.7
459.GemsFDTD	8 / 8	18.8	18.7
465.tonto	8 / 8	60.6	59.0
470.lbm	8 / 8	20.1	19.2
481.wrf	8 / 8	36.1	36.1
482.sphinx3	8 / 8	41.4	38.3

SPECfp_rate_base2006 = 42.5

SPECfp_rate2006 = 45.0

Hardware

CPU Name: Intel Xeon E5310
CPU Characteristics: 1066MHz system bus
CPU MHz: 1600
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

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: No
File System: ReiserFS
System State: Multi-user, run level 3
Base Pointers: 64-bit

Continued on next page

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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	4272	25.4	4275	25.4	**4274**	**25.4**	8	**4242**	**25.6**	4243	25.6	4241	25.6
416.gamess	8	1740	90.0	**1740**	**90.0**	1739	90.1	8	**1715**	**91.3**	1714	91.4	1715	91.3
433.milc	8	3061	24.0	**3061**	**24.0**	3063	24.0	8	3062	24.0	**3064**	**24.0**	3064	24.0
434.zeusmp	8	1570	46.4	**1568**	**46.4**	1568	46.4	8	1567	46.4	1573	46.3	**1570**	**46.4**
435.gromacs	8	**757**	**75.5**	757	75.5	760	75.2	8	738	77.4	**738**	**77.4**	738	77.4
436.cactusADM	8	**1878**	**50.9**	1885	50.7	1876	51.0	8	**1706**	**56.0**	1727	55.4	1702	56.2
437.leslie3d	8	4006	18.8	**4007**	**18.8**	4019	18.7	8	3921	19.2	3935	19.1	**3926**	**19.2**
444.namd	8	966	66.4	**955**	**67.2**	953	67.4	8	947	67.7	**948**	**67.7**	954	67.3
447.dealII	8	1085	84.3	1107	82.6	**1106**	**82.8**	8	1033	88.6	**1044**	**87.7**	1045	87.6
450.soplex	8	**2636**	**25.3**	2636	25.3	2638	25.3	8	**2393**	**27.9**	2396	27.8	2391	27.9
453.povray	8	**419**	**102**	418	102	419	101	8	355	120	**355**	**120**	355	120
454.calculix	8	**1053**	**62.7**	1054	62.6	1046	63.1	8	749	88.1	755	87.5	**751**	**87.9**
459.GemsFDTD	8	4563	18.6	**4550**	**18.7**	4543	18.7	8	4525	18.8	**4524**	**18.8**	4520	18.8
465.tonto	8	**1334**	**59.0**	1335	59.0	1331	59.1	8	1300	60.6	1298	60.6	**1299**	**60.6**
470.lbm	8	5733	19.2	**5733**	**19.2**	5732	19.2	8	5463	20.1	**5463**	**20.1**	5462	20.1
481.wrf	8	2474	36.1	2477	36.1	**2475**	**36.1**	8	**2476**	**36.1**	2473	36.1	2479	36.0
482.sphinx3	8	4072	38.3	4060	38.4	**4066**	**38.3**	8	3915	39.8	3758	41.5	**3764**	**41.4**

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

General Notes

　　All results used taskset to bind processes to cores

Base Compiler Invocation

C benchmarks:
```
icc
```

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

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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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Test sponsor: Acer Incorporated	**Hardware Availability:**	Nov-2006
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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 -auto-ilp32`

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

481.wrf: `-fast -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-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

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 14:42:50 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 13 November 2007.