SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

Acer Altos G540 (Intel Xeon X5365)

$SPECfp^{®}\_rate2006 =$ 38.8

$SPECfp\_rate\_base2006 =$ 35.9
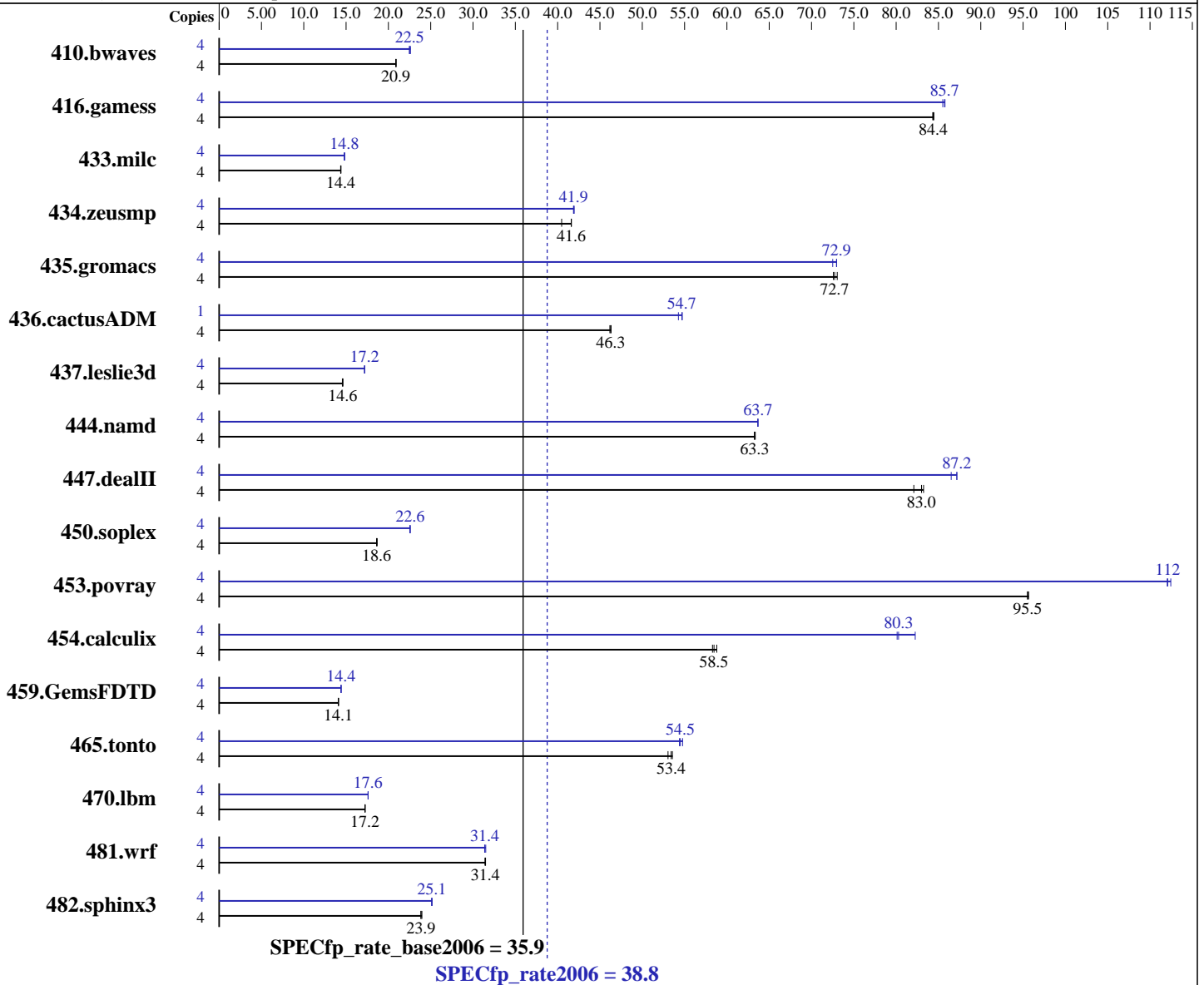
CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007

SPECfp_rate_base2006 = 35.9

SPECfp_rate2006 = 38.8

Benchmark	Copies	Result
410.bwaves	4 / 4	22.5 / 20.9
416.gamess	4 / 4	85.7 / 84.4
433.milc	4 / 4	14.8 / 14.4
434.zeusmp	4 / 4	41.9 / 41.6
435.gromacs	4 / 4	72.9 / 72.7
436.cactusADM	1 / 4	54.7 / 46.3
437.leslie3d	4 / 4	17.2 / 14.6
444.namd	4 / 4	63.7 / 63.3
447.dealII	4 / 4	87.2 / 83.0
450.soplex	4 / 4	22.6 / 18.6
453.povray	4 / 4	112 / 95.5
454.calculix	4 / 4	80.3 / 58.5
459.GemsFDTD	4 / 4	14.4 / 14.1
465.tonto	4 / 4	54.5 / 53.4
470.lbm	4 / 4	17.6 / 17.2
481.wrf	4 / 4	31.4 / 31.4
482.sphinx3	4 / 4	25.1 / 23.9

Hardware

CPU Name: Intel Xeon X5365

CPU Characteristics: 1333MHz system bus

CPU MHz: 3000

FPU: Integrated

CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip

CPU(s) orderable: 1, 2 chip

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: Yes

File System: ReiserFS

System State: Multi-user, run level 3

Base Pointers: 64-bit

Continued on next page

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

Acer Altos G540 (Intel Xeon X5365)

SPECfp_rate2006 =	38.8
SPECfp_rate_base2006 =	35.9

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

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

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: 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	2599	20.9	**2603**	**20.9**	2603	20.9	4	**2414**	**22.5**	2419	22.5	2404	22.6
416.gamess	4	927	84.5	**928**	**84.4**	929	84.3	4	**914**	**85.7**	916	85.5	913	85.8
433.milc	4	**2554**	**14.4**	2551	14.4	2558	14.4	4	2474	14.8	2484	14.8	**2481**	**14.8**
434.zeusmp	4	874	41.6	**875**	**41.6**	899	40.5	4	869	41.9	**869**	**41.9**	868	42.0
435.gromacs	4	394	72.6	391	73.0	**393**	**72.7**	4	394	72.5	391	73.0	**392**	**72.9**
436.cactusADM	4	1032	46.3	1035	46.2	**1033**	**46.3**	1	**219**	**54.7**	218	54.7	220	54.3
437.leslie3d	4	2572	14.6	**2574**	**14.6**	2583	14.6	4	2187	17.2	**2187**	**17.2**	2188	17.2
444.namd	4	507	63.3	**507**	**63.3**	506	63.4	4	504	63.7	504	63.7	**504**	**63.7**
447.dealII	4	550	83.2	557	82.1	**551**	**83.0**	4	525	87.2	**525**	**87.2**	529	86.5
450.soplex	4	1787	18.7	1793	18.6	**1791**	**18.6**	4	**1478**	**22.6**	1477	22.6	1481	22.5
453.povray	4	**223**	**95.5**	223	95.5	222	95.7	4	**190**	**112**	189	112	190	112
454.calculix	4	561	58.8	**564**	**58.5**	566	58.3	4	401	82.3	**411**	**80.3**	412	80.1
459.GemsFDTD	4	3010	14.1	**3011**	**14.1**	3011	14.1	4	2946	14.4	2945	14.4	**2945**	**14.4**
465.tonto	4	735	53.6	742	53.0	**737**	**53.4**	4	719	54.8	**722**	**54.5**	724	54.4
470.lbm	4	3187	17.2	**3188**	**17.2**	3189	17.2	4	**3122**	**17.6**	3122	17.6	3122	17.6
481.wrf	4	1419	31.5	**1421**	**31.4**	1422	31.4	4	1418	31.5	1424	31.4	**1423**	**31.4**
482.sphinx3	4	**3269**	**23.9**	3270	23.8	3254	24.0	4	3104	25.1	3098	25.2	**3103**	**25.1**

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

Fortran benchmarks:
    ifort

SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated	SPECfp_rate2006 =	38.8
Acer Altos G540 (Intel Xeon X5365)	SPECfp_rate_base2006 =	35.9

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

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

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

Acer Incorporated

Acer Altos G540 (Intel Xeon X5365)

SPECfp_rate2006 =　38.8

SPECfp_rate_base2006 =　35.9

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007

Peak Compiler Invocation (Continued)

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`

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

Continued on next page

Acer Incorporated

Acer Altos G540 (Intel Xeon X5365)

SPECfp_rate2006 = 38.8

SPECfp_rate_base2006 = 35.9

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

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

Peak Optimization Flags (Continued)

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`

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

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

Acer Altos G540 (Intel Xeon X5365)

SPECfp_rate2006 = 38.8

SPECfp_rate_base2006 = 35.9

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

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

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

SPEC and SPECfp are registered trademarks of the Standard Performance
Evaluation Corporation. All other brand and product names appearing in
this result are trademarks or registered trademarks of their respective
holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 15:07:22 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 26 December 2007.