SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

Acer Altos R720 (Intel Xeon X5355)

$SPECfp®\_rate2006 =$ 60.5

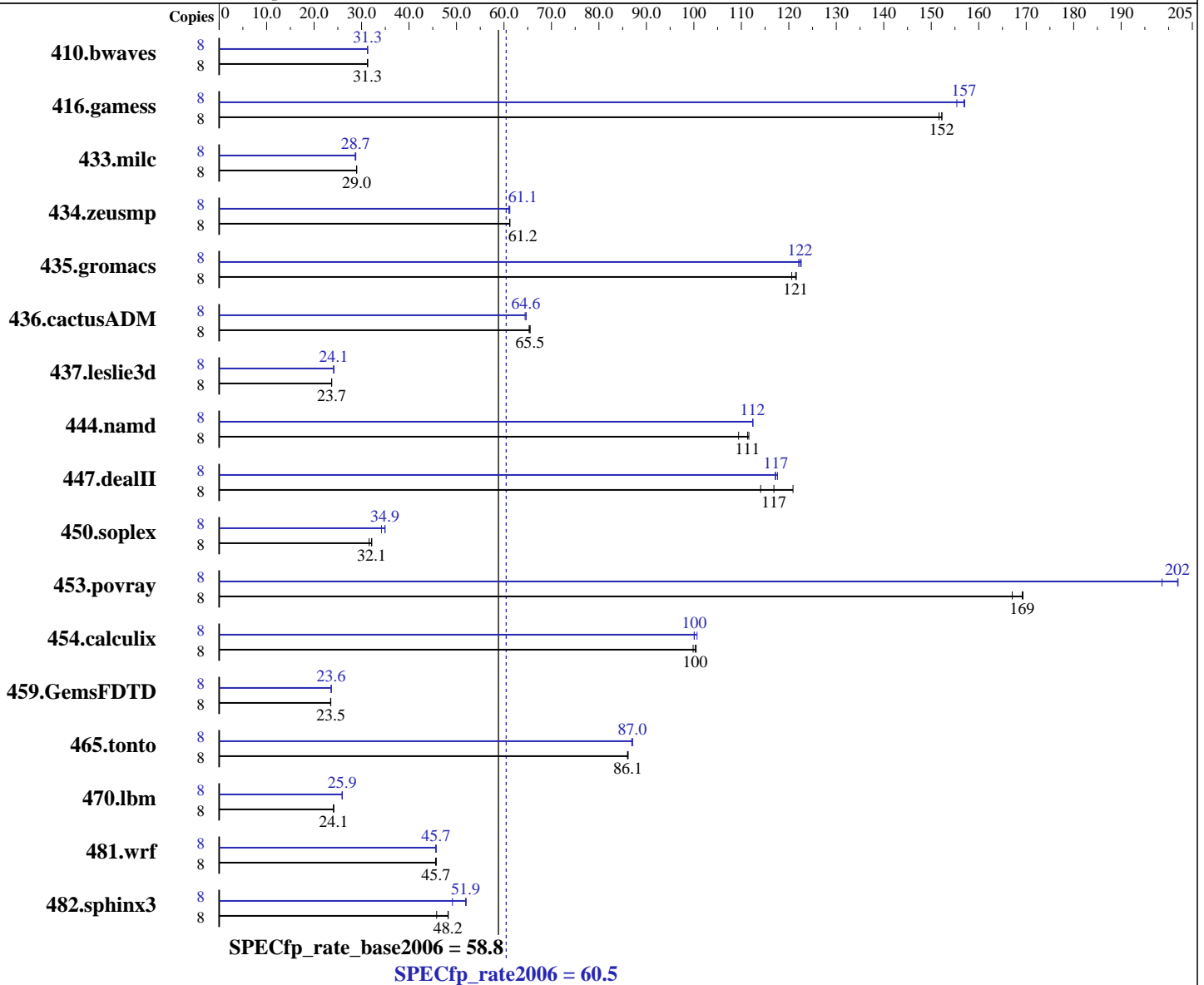$SPECfp\_rate\_base2006 =$ 58.8

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

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

Copies		
410.bwaves	8	31.3
	8	31.3
416.gamess	8	157
	8	152
433.milc	8	28.7
	8	29.0
434.zeusmp	8	61.1
	8	61.2
435.gromacs	8	122
	8	121
436.cactusADM	8	64.6
	8	65.5
437.leslie3d	8	24.1
	8	23.7
444.namd	8	112
	8	111
447.dealII	8	117
	8	117
450.soplex	8	34.9
	8	32.1
453.povray	8	202
	8	169
454.calculix	8	100
	8	100
459.GemsFDTD	8	23.6
	8	23.5
465.tonto	8	87.0
	8	86.1
470.lbm	8	25.9
	8	24.1
481.wrf	8	45.7
	8	45.7
482.sphinx3	8	51.9
	8	48.2

SPECfp_rate_base2006 = 58.8

SPECfp_rate2006 = 60.5

Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	1333MHz system bus
CPU MHz:	2660
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++ Compiler for Linux32 version 10.0 Build 20070426 Package ID: l_cc_p_10.0.023 Intel Fortran Compiler for Linux32 version 10.0 Build 20070426 Package ID: l_fc_p_10.0.023
Auto Parallel:	No
File System:	ReiserFS
System State:	Default

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 73GB 10000RPM SAS HDD
Other Hardware:	None

Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	None

Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	**3478**	**31.3**	3478	31.3	3477	31.3	8	3477	31.3	**3477**	**31.3**	3478	31.3
416.gamess	8	**1029**	**152**	1029	152	1033	152	8	**998**	**157**	1008	155	997	157
433.milc	8	2537	28.9	**2535**	**29.0**	2535	29.0	8	2551	28.8	2563	28.7	**2557**	**28.7**
434.zeusmp	8	1189	61.2	**1189**	**61.2**	1190	61.2	8	1193	61.0	1189	61.2	**1192**	**61.1**
435.gromacs	8	474	121	**470**	**121**	470	122	8	466	123	**467**	**122**	468	122
436.cactusADM	8	1464	65.3	1460	65.5	**1460**	**65.5**	8	**1479**	**64.6**	1483	64.4	1478	64.7
437.leslie3d	8	3176	23.7	3172	23.7	**3172**	**23.7**	8	**3115**	**24.1**	3111	24.2	3118	24.1
444.namd	8	**576**	**111**	586	109	575	112	8	**571**	**112**	571	112	571	112
447.dealII	8	802	114	**783**	**117**	757	121	8	**780**	**117**	781	117	778	118
450.soplex	8	2112	31.6	2075	32.1	**2077**	**32.1**	8	1951	34.2	1909	35.0	**1911**	**34.9**
453.povray	8	**252**	**169**	251	169	255	167	8	214	199	211	202	**211**	**202**
454.calculix	8	657	100	**658**	**100**	661	99.8	8	660	100	656	101	**660**	**100**
459.GemsFDTD	8	3616	23.5	3608	23.5	**3610**	**23.5**	8	3597	23.6	**3596**	**23.6**	3593	23.6
465.tonto	8	915	86.0	914	86.2	**914**	**86.1**	8	**905**	**87.0**	904	87.1	906	86.9
470.lbm	8	4560	24.1	4559	24.1	**4559**	**24.1**	8	**4241**	**25.9**	4239	25.9	4242	25.9
481.wrf	8	1954	45.7	1960	45.6	**1956**	**45.7**	8	1959	45.6	1954	45.7	**1956**	**45.7**
482.sphinx3	8	3403	45.8	3230	48.3	**3235**	**48.2**	8	3173	49.1	2996	52.0	**3004**	**51.9**

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

General Notes

    All programs compiled with the 64-bit compiler except
    437.leslie3d, 450.soplex, 470.lbm and 482.sphinx3, at peak,
    compiled with the 32-bit compiler
    This result was measured on the Acer Altos R520
    The Altos R720 and Altos R520 are electronically equivalent.

    taskset was used to bind copies to 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.gamess: -DSPEC_CPU_LP64
    433.milc: -DSPEC_CPU_LP64
  434.zeusmp: -DSPEC_CPU_LP64
 435.gromacs: -DSPEC_CPU_LP64
436.cactusADM: -DSPEC_CPU_LP64
 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
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 -auto-ilp32
```

C++ benchmarks:
```
-fast -auto-ilp32
```

Fortran benchmarks:
```
-fast
```

Benchmarks using both Fortran and C:

```
435.gromacs: -fast -auto-ilp32 -nofor_main(*)
```

```
436.cactusADM: Same as 435.gromacs
```

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Base Optimization Flags (Continued)

454.calculix: Same as 435.gromacs

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

(*) Indicates an optimization flag that was found in a portability variable.

Peak Compiler Invocation

C benchmarks (except as noted below):
```
/opt/intel/cc/10.0.023/bin/icc -L/opt/intel/cc/10.0.023/lib
-I/opt/intel/cc/10.0.023/include
```

433.milc: `icc`

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

450.soplex: `/opt/intel/cc/10.0.023/bin/icpc -L/opt/intel/cc/10.0.023/lib`
`-I/opt/intel/cc/10.0.023/include`

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

437.leslie3d: `/opt/intel/fc/10.0.023/bin/ifort -L/opt/intel/fc/10.0.023/lib`
`-I/opt/intel/fc/10.0.023/include`

Benchmarks using both Fortran and C:
```
icc ifort
```

Peak Portability Flags

```
Same as Base Portability Flags
```

Peak Optimization Flags

C benchmarks:

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

470.lbm: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2`
`-scalar-rep- -prefetch`

482.sphinx3: `-fast -unroll2`

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Peak Optimization Flags (Continued)

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) -xT -ipo -O3 -no-prec-div`

    453.povray: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -ansi-alias`

Fortran benchmarks:

    410.bwaves: `-fast`

    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: `Same as 434.zeusmp`

    459.GemsFDTD: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0`

    465.tonto: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4`

Benchmarks using both Fortran and C:

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

    436.cactusADM: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -auto-ilp32 -nofor_main(*)`

    454.calculix: `-fast -auto-ilp32 -nofor_main(*)`

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

(*) Indicates an optimization flag that was found in a portability variable.

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.16.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.16.xml

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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 12:51:57 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 August 2007.