SPEC® CFP2006 Result
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Acer Incorporated

Gateway GT110 F2 (Xeon E3-1280)

$SPECfp®_rate2006 = $ 122

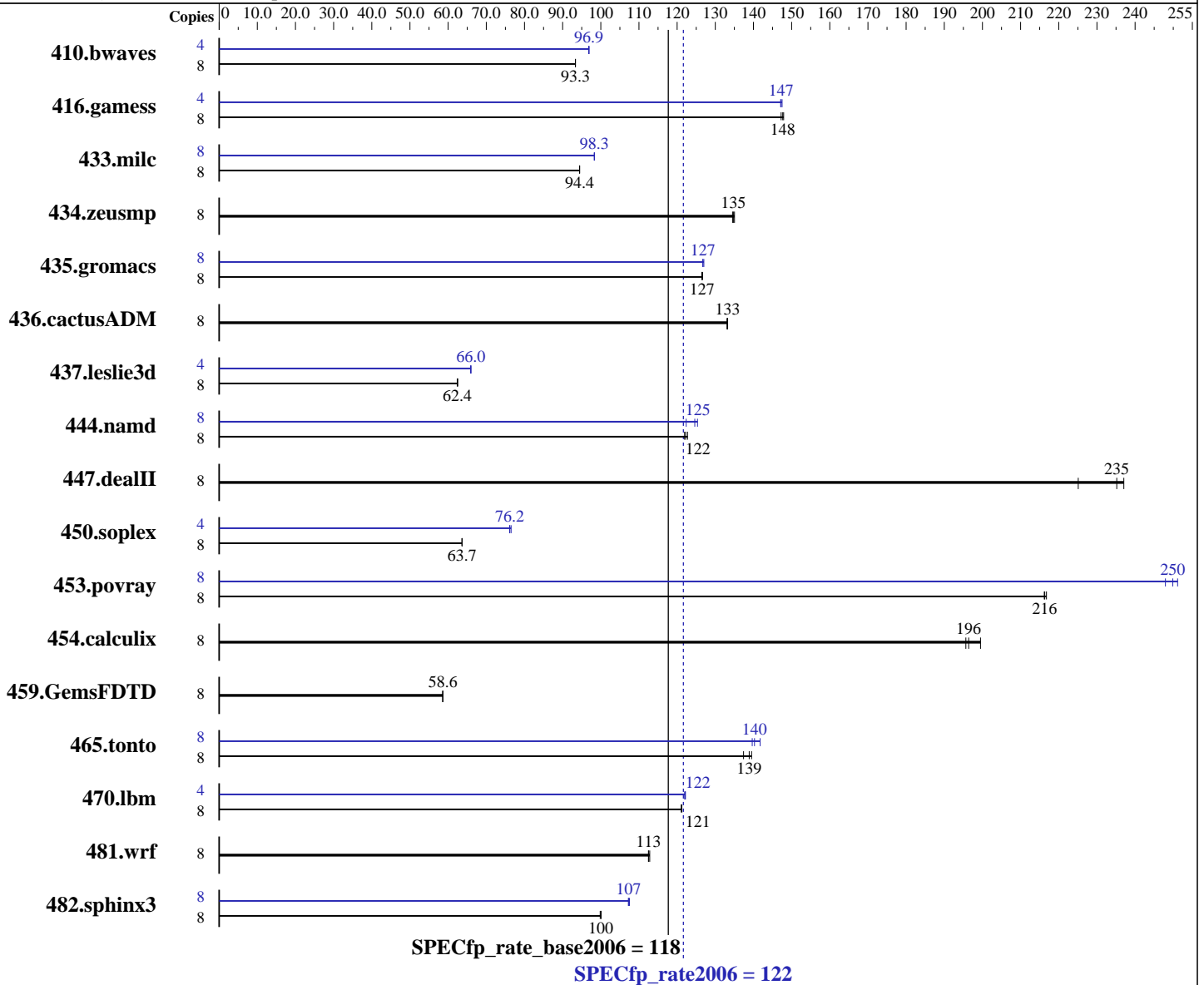$SPECfp_rate_base2006 = $ 118

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Apr-2011

Hardware Availability: Apr-2011

Software Availability: Jan-2011

Graph of results. Copies scale 0 to 255.

Benchmark	Copies	Result
410.bwaves	4	96.9
410.bwaves	8	93.3
416.gamess	4	147
416.gamess	8	148
433.milc	8	98.3
433.milc	8	94.4
434.zeusmp	8	135
435.gromacs	8	127
435.gromacs	8	127
436.cactusADM	8	133
437.leslie3d	4	66.0
437.leslie3d	8	62.4
444.namd	8	125
444.namd	8	122
447.dealII	8	235
450.soplex	4	76.2
450.soplex	8	63.7
453.povray	8	250
453.povray	8	216
454.calculix	8	196
459.GemsFDTD	8	58.6
465.tonto	8	140
465.tonto	8	139
470.lbm	4	122
470.lbm	8	121
481.wrf	8	113
482.sphinx3	8	107
482.sphinx3	8	100

SPECfp_rate_base2006 = 118

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Hardware

CPU Name: Intel Xeon E3-1280

CPU Characteristics: Intel Turbo Boost Technology up to 3.90 GHz

CPU MHz: 3500

FPU: Integrated

CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core

CPU(s) orderable: 1 chip

Primary Cache: 32 KB I + 32 KB D on chip per core

Secondary Cache: 256 KB I+D on chip per core

Continued on next page

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64) SP1 , Kernel 2.6.32.12-0.7-default

Compiler: Intel C++ and Fortran Intel 64 Compiler XE for applications running on Intel 64 Version 12.0.1.116 Build 20101116

Auto Parallel: No

File System: ext3

System State: Run level 3 (multi-user)

Base Pointers: 64-bit

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L3 Cache:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	8 GB (2 x 4 GB 2Rx8 PC3-10600E-9,ECC)
Disk Subsystem:	1 x 640 GB SATA, 7200 RPM
Other Hardware:	None

Peak Pointers:	32/64-bit
Other Software:	None

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	1164	93.4	**1165**	**93.3**	1165	93.3	4	561	96.9	**561**	**96.9**	562	96.8
416.gamess	8	1064	147	1059	148	**1061**	**148**	4	532	147	**532**	**147**	531	148
433.milc	8	778	94.4	**778**	**94.4**	778	94.5	8	**747**	**98.3**	747	98.3	747	98.3
434.zeusmp	8	539	135	**540**	**135**	541	135	8	539	135	**540**	**135**	541	135
435.gromacs	8	451	127	**451**	**127**	452	126	8	450	127	**451**	**127**	451	127
436.cactusADM	8	**718**	**133**	718	133	718	133	8	**718**	**133**	718	133	718	133
437.leslie3d	8	1203	62.5	1205	62.4	**1205**	**62.4**	4	571	65.9	**570**	**66.0**	570	66.0
444.namd	8	526	122	**525**	**122**	523	123	8	**515**	**125**	512	125	524	122
447.dealII	8	386	237	407	225	**389**	**235**	8	386	237	407	225	**389**	**235**
450.soplex	8	1048	63.7	1049	63.6	**1048**	**63.7**	4	438	76.1	436	76.5	**438**	**76.2**
453.povray	8	197	216	**197**	**216**	196	217	8	172	248	169	251	**170**	**250**
454.calculix	8	331	199	337	196	**336**	**196**	8	331	199	337	196	**336**	**196**
459.GemsFDTD	8	**1448**	**58.6**	1449	58.6	1448	58.6	8	**1448**	**58.6**	1449	58.6	1448	58.6
465.tonto	8	**567**	**139**	564	140	573	137	8	564	140	555	142	**561**	**140**
470.lbm	8	907	121	**907**	**121**	907	121	4	450	122	451	122	**450**	**122**
481.wrf	8	792	113	**794**	**113**	794	112	8	792	113	**794**	**113**	794	112
482.sphinx3	8	**1559**	**100**	1558	100	1562	99.8	8	1450	108	1454	107	**1454**	**107**

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

Submit Notes

```
numactl was used to bind copies to the cores
The config file option 'submit' was used.
```

Operating System Notes

```
Large pages were disabled for this run.
```

General Notes

```
Binaries compiled on RHEL5.5
This result was measured on the Gateway GT110 F2.
The Acer AT110 F2 is electronically equivalent.
```

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Base Compiler Invocation

C benchmarks:
       icc   -m64

C++ benchmarks:
       icpc   -m64

Fortran benchmarks:
       ifort -m64

Benchmarks using both Fortran and C:
       icc   -m64 ifort -m64

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:
       -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

C++ benchmarks:
       -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

Fortran benchmarks:
       -xAVX -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:
       -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

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Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc    -m64
```

```
482.sphinx3: icc -m32
```

C++ benchmarks (except as noted below):
```
icpc   -m64
```

```
450.soplex: icpc -m32
```

Fortran benchmarks:
```
ifort -m64
```

Benchmarks using both Fortran and C:
```
icc    -m64 ifort -m64
```

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
    437.leslie3d: -DSPEC_CPU_LP64
      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
       470.lbm: -DSPEC_CPU_LP64
        481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
     433.milc: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
            -no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32

     470.lbm: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
            -no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3
            -ansi-alias -opt-prefetch -auto-ilp32
```

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Peak Optimization Flags (Continued)

482.sphinx3: -xAVX -ipo -O3 -no-prec-div -unroll2

C++ benchmarks:

444.namd: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -fno-alias
-auto-ilp32

447.dealII: basepeak = yes

450.soplex: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

453.povray: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

Fortran benchmarks:

410.bwaves: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -static

416.gamess: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2
-inline-level=0 -scalar-rep- -static

434.zeusmp: basepeak = yes

437.leslie3d: -xAVX -ipo -O3 -no-prec-div
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

459.GemsFDTD: basepeak = yes

465.tonto: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -auto
-inline-calloc -opt-malloc-options=3
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

Benchmarks using both Fortran and C:

435.gromacs: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch
-static -auto-ilp32

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

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Peak Optimization Flags (Continued)

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Acer-Intel-Linux-Settings-flags.html
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Acer-Intel-Linux-Settings-flags.xml
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml

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