SPEC® CINT2006 Result
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Acer Incorporated

Acer Altos G5450 (AMD Opteron 2212)

$SPECint^{®}\_rate2006 =$ 20.4

$SPECint\_rate\_base2006 =$ 18.4
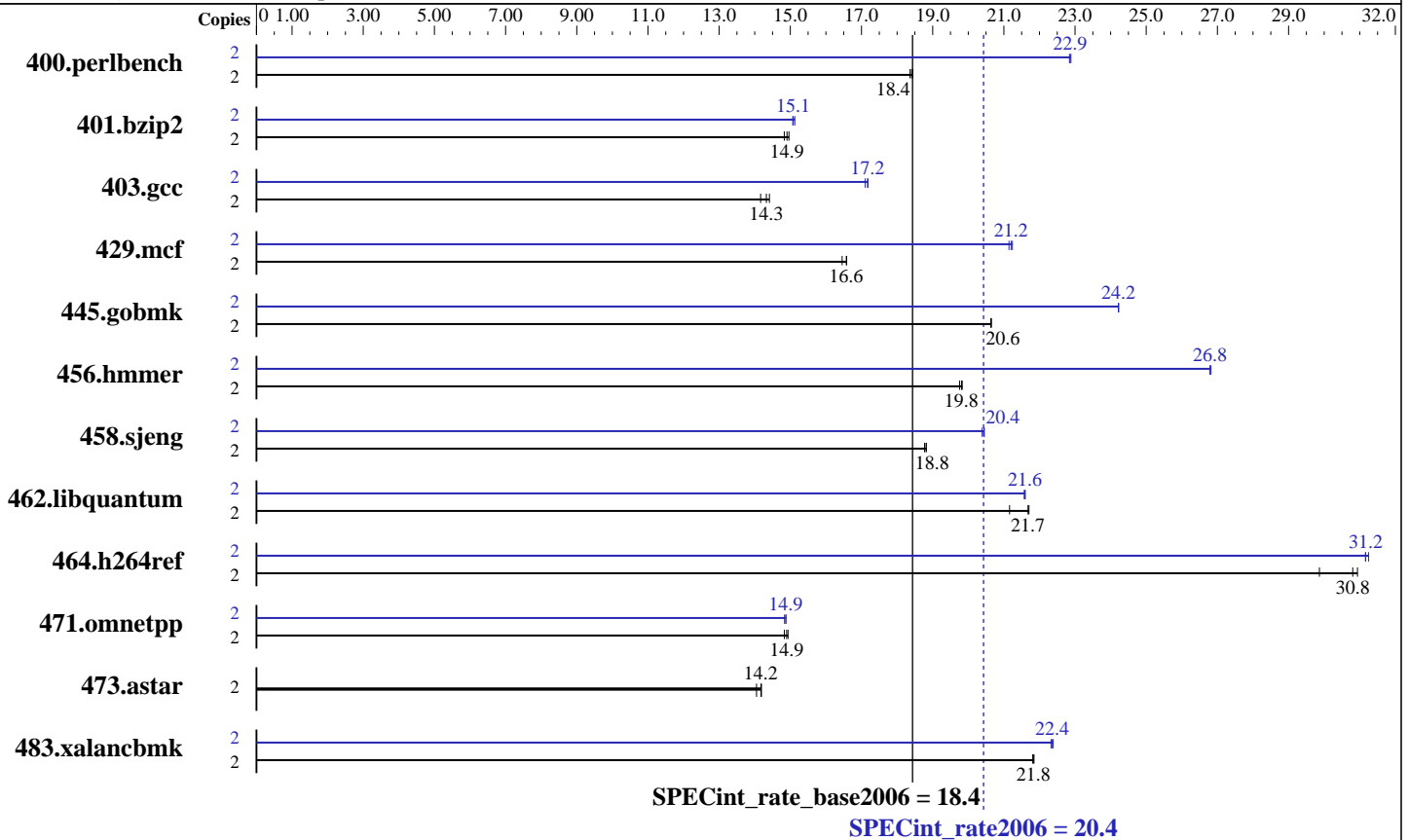
CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Jul-2007
Hardware Availability: Jun-2007
Software Availability: Jun-2007

Copies	Benchmark	Result
2	400.perlbench	22.9
2		18.4
2	401.bzip2	15.1
2		14.9
2	403.gcc	17.2
2		14.3
2	429.mcf	21.2
2		16.6
2	445.gobmk	24.2
2		20.6
2	456.hmmer	26.8
2		19.8
2	458.sjeng	20.4
2		18.8
2	462.libquantum	21.6
2		21.7
2	464.h264ref	31.2
2		30.8
2	471.omnetpp	14.9
2		14.9
2	473.astar	14.2
2	483.xalancbmk	22.4
2		21.8

SPECint_rate_base2006 = 18.4

SPECint_rate2006 = 20.4

Hardware
CPU Name: AMD Opteron 2212
CPU Characteristics:
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 64 KB I + 64 KB D on chip per core
Secondary Cache: 1 MB I+D on chip per core
L3 Cache: None
Other Cache: None
Memory: 8 GB (4x2GB, DDR2-667 CL5 ECC Reg)
Disk Subsystem: 1 x SATA, 160 GB
Other Hardware: None

Software
Operating System: SuSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)
Compiler: QLogic PathScale Compiler Suite, Release 3.0
Auto Parallel: No
File System: ReiserFS
System State: Default
Base Pointers: 32/64-bit
Peak Pointers: 32/64-bit
Other Software: SmartHeap 8.0 32 bit Library for Linux

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Results Table

Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
			Base								Peak			
400.perlbench	2	1064	18.4	1060	18.4	**1062**	**18.4**	2	854	22.9	**855**	**22.9**	855	22.8
401.bzip2	2	1301	14.8	1290	15.0	**1295**	**14.9**	2	1276	15.1	1281	15.1	**1279**	**15.1**
403.gcc	2	1137	14.2	1117	14.4	**1124**	**14.3**	2	**938**	**17.2**	937	17.2	941	17.1
429.mcf	2	1108	16.5	**1101**	**16.6**	1100	16.6	2	863	21.1	**860**	**21.2**	859	21.2
445.gobmk	2	1016	20.6	1017	20.6	**1017**	**20.6**	2	**866**	**24.2**	866	24.2	866	24.2
456.hmmer	2	944	19.8	941	19.8	**942**	**19.8**	2	**696**	**26.8**	696	26.8	696	26.8
458.sjeng	2	1286	18.8	1289	18.8	**1288**	**18.8**	2	1183	20.5	**1184**	**20.4**	1187	20.4
462.libquantum	2	1958	21.2	**1912**	**21.7**	1909	21.7	2	1919	21.6	1921	21.6	**1919**	**21.6**
464.h264ref	2	1482	29.9	1431	30.9	**1437**	**30.8**	2	**1420**	**31.2**	1420	31.2	1416	31.2
471.omnetpp	2	843	14.8	**839**	**14.9**	837	14.9	2	840	14.9	843	14.8	**840**	**14.9**
473.astar	2	**990**	**14.2**	999	14.1	990	14.2	2	**990**	**14.2**	999	14.1	990	14.2
483.xalancbmk	2	633	21.8	**632**	**21.8**	632	21.8	2	616	22.4	**617**	**22.4**	618	22.3

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

General Notes

taskset utility used to bind cores to processes

Base Compiler Invocation

C benchmarks:
     pathcc

C++ benchmarks:
     pathCC

Base Portability Flags

```
    400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
        401.bzip2: -DSPEC_CPU_LP64
          403.gcc: -DSPEC_CPU_LP64
          429.mcf: -DSPEC_CPU_LP64
        445.gobmk: -DSPEC_CPU_LP64
        456.hmmer: -DSPEC_CPU_LP64
        458.sjeng: -DSPEC_CPU_LP64
   462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
      464.h264ref: -DSPEC_CPU_LP64
    483.xalancbmk: -DSPEC_CPU_LINUX
```

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Base Optimization Flags

C benchmarks:
```
-Ofast -OPT:malloc_alg=1
```

C++ benchmarks:
```
-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap
```

Peak Compiler Invocation

C benchmarks:
```
pathcc
```

C++ benchmarks:
```
pathCC
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
   401.bzip2: -DSPEC_CPU_LP64
  445.gobmk: -DSPEC_CPU_LP64
  456.hmmer: -DSPEC_CPU_LP64
   458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
  464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
               -LNO:opt=0

   401.bzip2: -O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint

    403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
             -OPT:Ofast

    429.mcf: -m32 -O3 -ipa
             -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

  445.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
             -OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off
             -WOPT:retype_expr=on
```

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Peak Optimization Flags (Continued)

456.hmmer: `-O2 -OPT:alias=disjoint -OPT:malloc_alg=1 -CG:cflow=0`

458.sjeng: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3`
`-IPA:plimit=50000 -IPA:pu_reorder=2`

462.libquantum: `-O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000`

464.h264ref: `-fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3`
`-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0`

C++ benchmarks:

471.omnetpp: `-Ofast -CG:gcm=off -m32`
`-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap`

473.astar: `basepeak = yes`

483.xalancbmk: `-Ofast -m32 -OPT:unroll_times_max=8`
`-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.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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