



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 34.6

Acer Altos G540 (Intel Xeon 5160)

SPECint_rate_base2006 = 31.0

CPU2006 license: 97

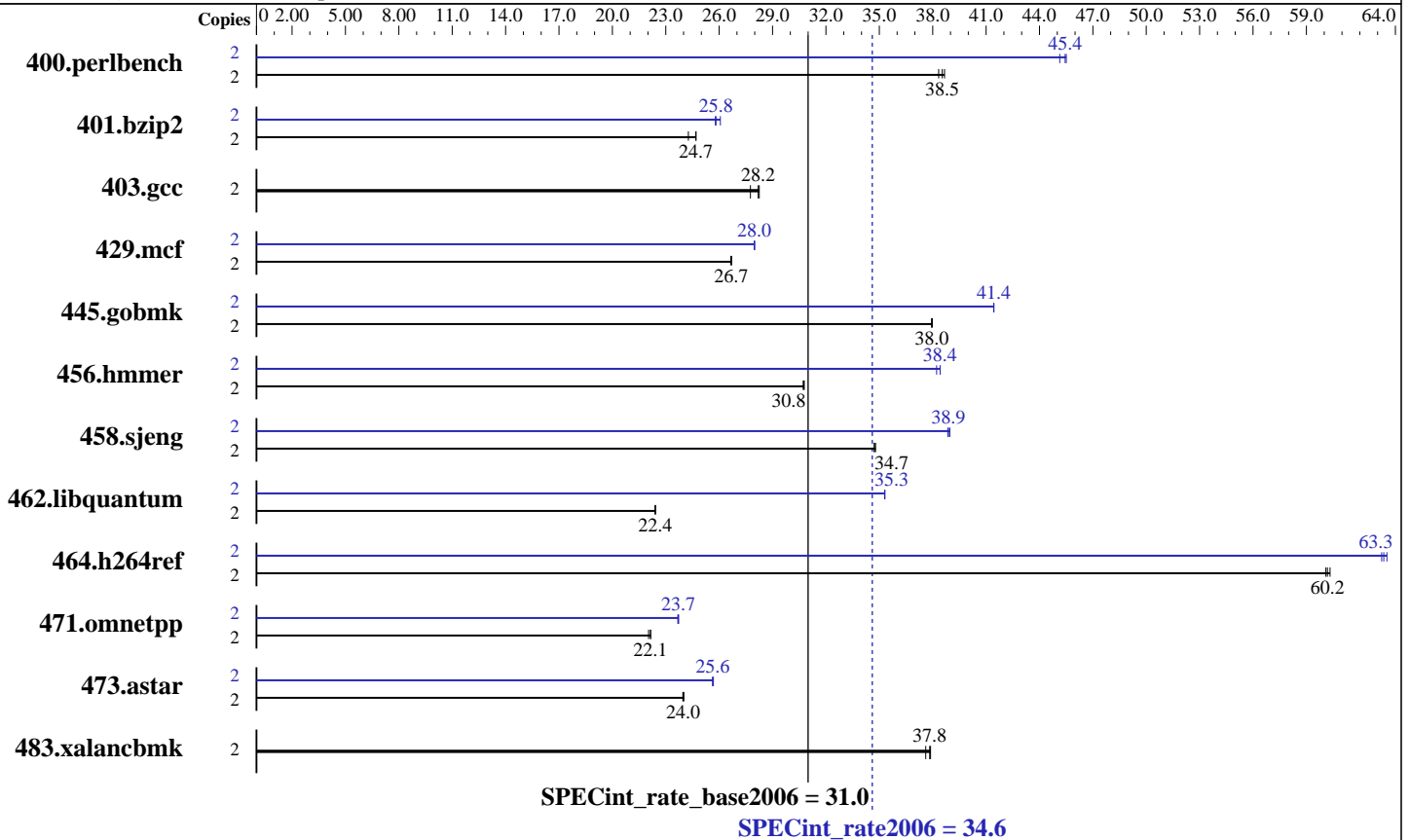
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1, 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 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

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
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 8.1



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Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|----------------|--------|------------|-------------|-------------|-------------|------------|-------------|--------|------------|-------------|-------------|-------------|------------|-------------|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 2 | 507 | 38.5 | 510 | 38.3 | 505 | 38.7 | 2 | 429 | 45.5 | 430 | 45.4 | 433 | 45.1 |
| 401.bzip2 | 2 | 795 | 24.3 | 782 | 24.7 | 781 | 24.7 | 2 | 747 | 25.8 | 749 | 25.8 | 740 | 26.1 |
| 403.gcc | 2 | 580 | 27.8 | 570 | 28.3 | 571 | 28.2 | 2 | 580 | 27.8 | 570 | 28.3 | 571 | 28.2 |
| 429.mcf | 2 | 684 | 26.7 | 683 | 26.7 | 683 | 26.7 | 2 | 652 | 28.0 | 652 | 28.0 | 652 | 28.0 |
| 445.gobmk | 2 | 552 | 38.0 | 553 | 38.0 | 553 | 37.9 | 2 | 506 | 41.4 | 506 | 41.4 | 506 | 41.4 |
| 456.hammer | 2 | 606 | 30.8 | 607 | 30.7 | 606 | 30.8 | 2 | 486 | 38.4 | 488 | 38.2 | 486 | 38.4 |
| 458.sjeng | 2 | 696 | 34.8 | 697 | 34.7 | 697 | 34.7 | 2 | 621 | 39.0 | 623 | 38.9 | 622 | 38.9 |
| 462.libquantum | 2 | 1849 | 22.4 | 1849 | 22.4 | 1849 | 22.4 | 2 | 1174 | 35.3 | 1174 | 35.3 | 1173 | 35.3 |
| 464.h264ref | 2 | 735 | 60.2 | 737 | 60.1 | 734 | 60.3 | 2 | 697 | 63.5 | 699 | 63.3 | 700 | 63.2 |
| 471.omnetpp | 2 | 564 | 22.1 | 567 | 22.0 | 564 | 22.1 | 2 | 527 | 23.7 | 527 | 23.7 | 528 | 23.7 |
| 473.astar | 2 | 585 | 24.0 | 586 | 24.0 | 585 | 24.0 | 2 | 547 | 25.6 | 548 | 25.6 | 547 | 25.7 |
| 483.xalancbmk | 2 | 364 | 37.9 | 365 | 37.8 | 367 | 37.6 | 2 | 364 | 37.9 | 365 | 37.8 | 367 | 37.6 |

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

General Notes

taskset was used to bind copies to cores

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast

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Base Optimization Flags (Continued)

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/cpu2006.1.0/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

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Peak Optimization Flags (Continued)

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec_div -ansi-alias

456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0
-prefetch -opt-streaming-stores always

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec_div -ansi-alias -Wl,-z,muldefs
-L/spec/cpu2006.1.0/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

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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