



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 56.3

Acer Altos G540 (Intel Xeon X5355)

SPECint_rate_base2006 = 52.0

CPU2006 license: 97

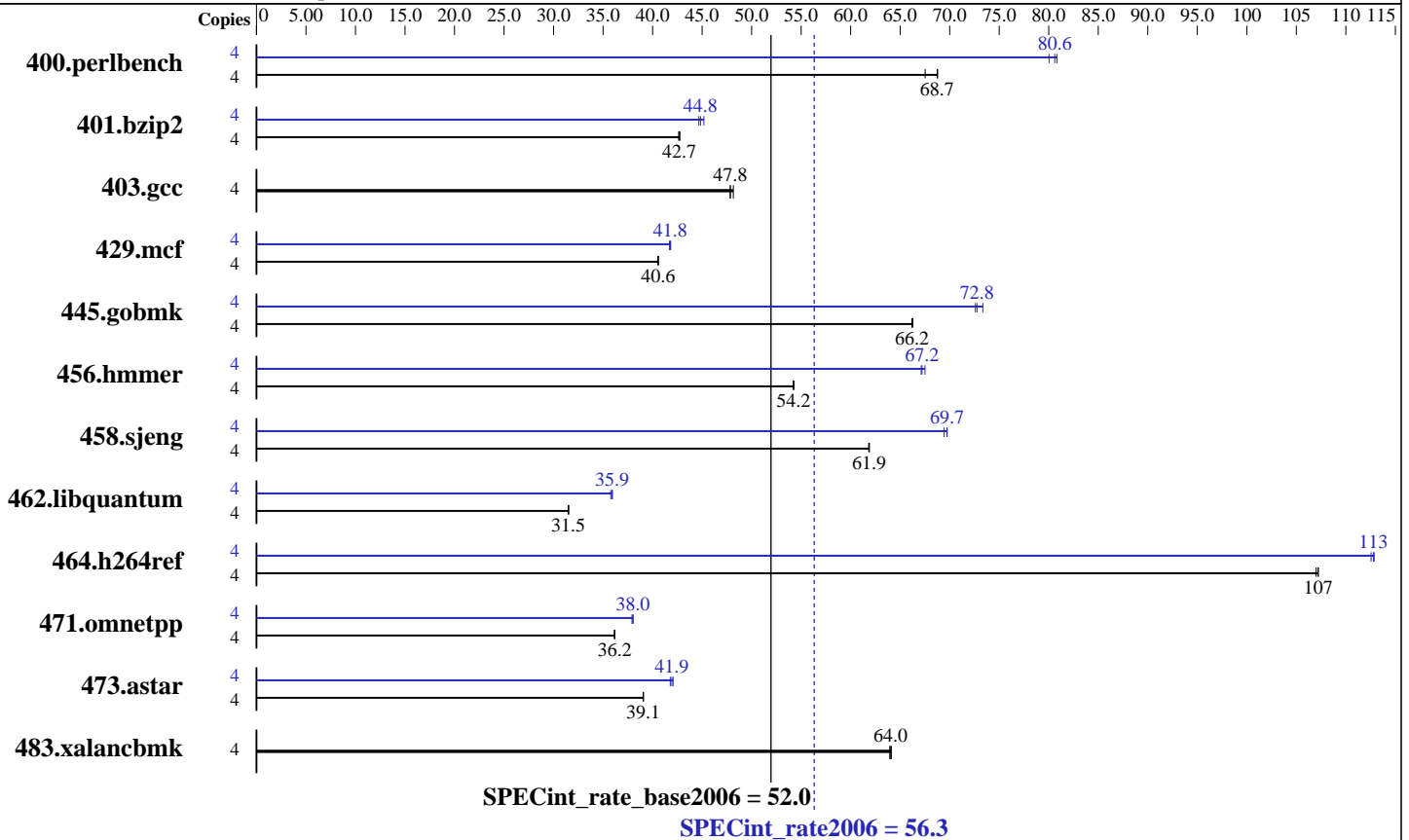
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2666
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 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
 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: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None



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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	4	569	68.7	579	67.5	568	68.8	4	485	80.6	488	80.0	483	80.8
401.bzip2	4	903	42.7	905	42.6	904	42.7	4	864	44.7	861	44.8	854	45.2
403.gcc	4	673	47.8	673	47.8	669	48.2	4	673	47.8	673	47.8	669	48.2
429.mcf	4	899	40.6	900	40.5	899	40.6	4	873	41.8	875	41.7	872	41.8
445.gobmk	4	633	66.3	634	66.2	634	66.2	4	572	73.3	578	72.6	577	72.8
456.hammer	4	688	54.3	688	54.2	688	54.2	4	553	67.5	556	67.1	555	67.2
458.sjeng	4	783	61.8	782	61.9	782	61.9	4	697	69.4	694	69.7	694	69.7
462.libquantum	4	2631	31.5	2631	31.5	2630	31.5	4	2306	35.9	2308	35.9	2317	35.8
464.h264ref	4	827	107	826	107	826	107	4	785	113	784	113	786	113
471.omnetpp	4	692	36.1	691	36.2	691	36.2	4	659	37.9	657	38.0	658	38.0
473.astar	4	719	39.1	719	39.1	719	39.0	4	668	42.1	669	41.9	672	41.8
483.xalancbmk	4	431	64.1	431	64.0	432	63.9	4	431	64.1	431	64.0	432	63.9

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:44:35 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 August 2007.