



SPEC[®] CINT2006 Result

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Acer Incorporated

SPECint[®]_rate2006 = 62.1

Acer Altos G540 (Intel Xeon 5160)

SPECint_rate_base2006 = 56.5

CPU2006 license: 97

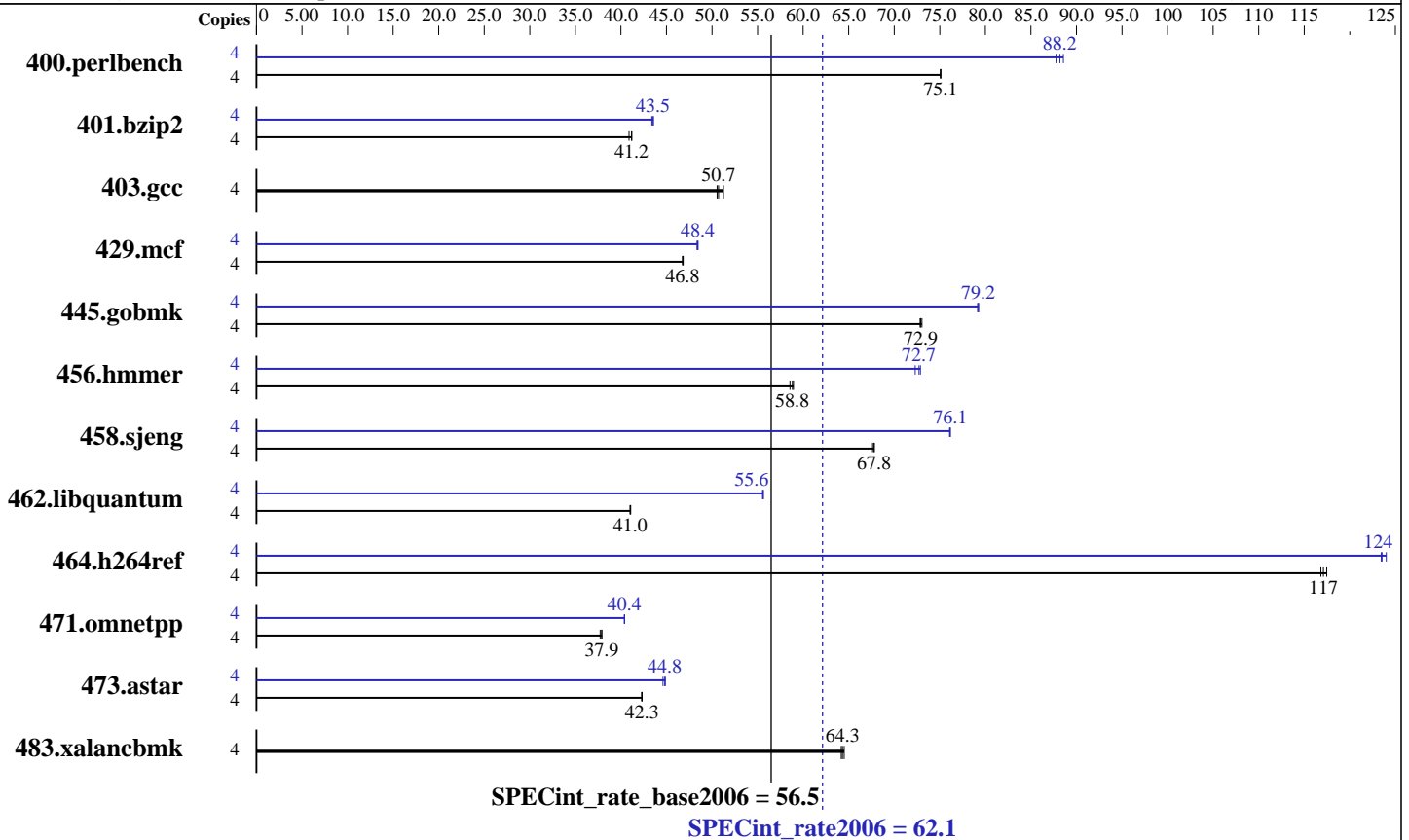
Test sponsor: Acer Incorporated

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: 4 cores, 2 chips, 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	4	521	75.1	<u>520</u>	<u>75.1</u>	520	75.1	4	445	87.8	441	88.6	<u>443</u>	<u>88.2</u>
401.bzip2	4	944	40.9	<u>938</u>	<u>41.2</u>	937	41.2	4	886	43.6	<u>887</u>	<u>43.5</u>	890	43.4
403.gcc	4	<u>635</u>	<u>50.7</u>	637	50.6	628	51.3	4	<u>635</u>	<u>50.7</u>	637	50.6	628	51.3
429.mcf	4	780	46.8	<u>780</u>	<u>46.8</u>	779	46.8	4	<u>753</u>	<u>48.4</u>	753	48.5	755	48.3
445.gobmk	4	574	73.0	<u>576</u>	<u>72.9</u>	576	72.8	4	530	79.1	<u>530</u>	<u>79.2</u>	529	79.3
456.hammer	4	<u>634</u>	<u>58.8</u>	633	58.9	637	58.6	4	<u>513</u>	<u>72.7</u>	512	72.9	516	72.3
458.sjeng	4	716	67.6	<u>714</u>	<u>67.8</u>	714	67.8	4	636	76.1	636	76.1	<u>636</u>	<u>76.1</u>
462.libquantum	4	2021	41.0	<u>2020</u>	<u>41.0</u>	2018	41.1	4	<u>1490</u>	<u>55.6</u>	1490	55.6	1492	55.5
464.h264ref	4	<u>756</u>	<u>117</u>	758	117	754	117	4	<u>717</u>	<u>124</u>	714	124	717	123
471.omnetpp	4	<u>660</u>	<u>37.9</u>	663	37.7	660	37.9	4	<u>619</u>	<u>40.4</u>	619	40.4	619	40.4
473.astar	4	663	42.3	<u>664</u>	<u>42.3</u>	664	42.3	4	<u>627</u>	<u>44.8</u>	629	44.6	626	44.9
483.xalancbmk	4	428	64.5	430	64.2	<u>429</u>	<u>64.3</u>	4	428	64.5	430	64.2	<u>429</u>	<u>64.3</u>

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 13:05:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 4 September 2007.