



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 113

Acer Altos G540 (Intel Xeon X5365)

SPECint_rate_base2006 = 95.2

CPU2006 license: 97

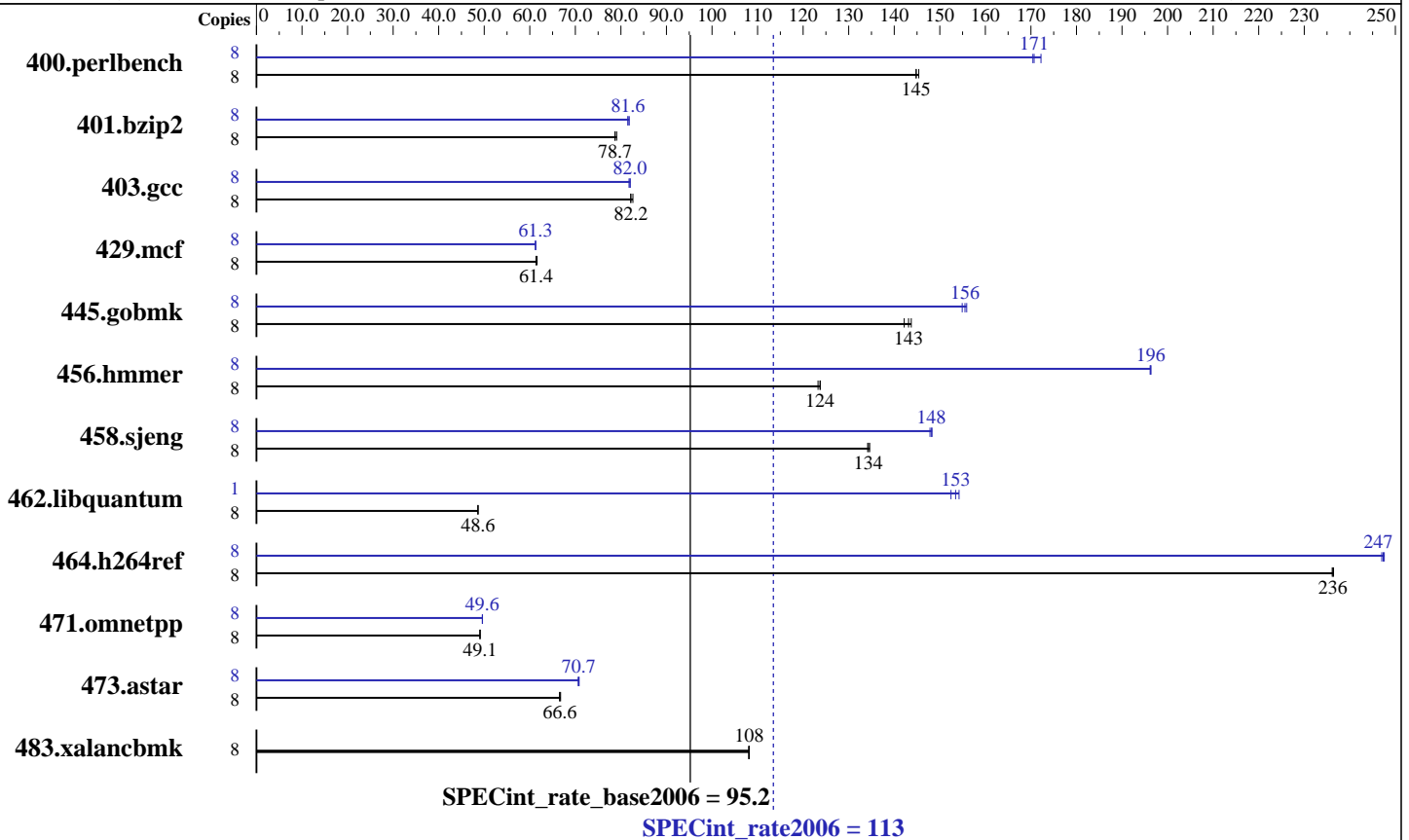
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Dec-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5365
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 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 2048 MB ECC FB-DIMM DDR2-667 CL5-5-5)
 Disk Subsystem: 1 x 73 GB 10000RPM SAS HDD
 Other Hardware: None

Software

Operating System: SUSE Enterprise Linux Server 10 (x86_64)
 Kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler 10.1 for Linux
 Build 20070913 Package ID: l_cc_p_10.1.008
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1
 Binutils 2.17.50.0.15



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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	8	538	145	<u>540</u>	<u>145</u>	540	145	8	<u>458</u>	<u>171</u>	459	170	454	172
401.bzip2	8	981	78.7	976	79.1	<u>981</u>	<u>78.7</u>	8	947	81.5	943	81.8	<u>946</u>	<u>81.6</u>
403.gcc	8	784	82.1	779	82.6	<u>783</u>	<u>82.2</u>	8	785	82.1	<u>786</u>	<u>82.0</u>	787	81.8
429.mcf	8	1184	61.6	<u>1188</u>	<u>61.4</u>	1189	61.4	8	1191	61.3	<u>1191</u>	<u>61.3</u>	1192	61.2
445.gobmk	8	<u>586</u>	<u>143</u>	584	144	590	142	8	542	155	538	156	<u>540</u>	<u>156</u>
456.hammer	8	606	123	603	124	<u>603</u>	<u>124</u>	8	380	196	<u>380</u>	<u>196</u>	380	196
458.sjeng	8	<u>720</u>	<u>134</u>	719	135	722	134	8	<u>653</u>	<u>148</u>	653	148	655	148
462.libquantum	8	3409	48.6	<u>3409</u>	<u>48.6</u>	3409	48.6	1	136	152	<u>135</u>	<u>153</u>	134	154
464.h264ref	8	749	236	750	236	<u>749</u>	<u>236</u>	8	715	248	717	247	<u>716</u>	<u>247</u>
471.omnetpp	8	1018	49.1	<u>1019</u>	<u>49.1</u>	1019	49.1	8	1008	49.6	<u>1008</u>	<u>49.6</u>	1008	49.6
473.astar	8	841	66.8	<u>843</u>	<u>66.6</u>	844	66.5	8	<u>794</u>	<u>70.7</u>	793	70.8	795	70.6
483.xalanbmk	8	510	108	511	108	<u>510</u>	<u>108</u>	8	510	108	511	108	<u>510</u>	<u>108</u>

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

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hammer, for peak, are compiled in 64-bit mode
 All results used taskset to bind processes to cores
 "ulimit -s unlimited" was set for stacksize unlimited
 OMP_NUM_THREADS set to number of 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.xalanbmk: -DSPEC_CPU_LINUX



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Base Optimization Flags

C benchmarks:

`-fast -inline-calloc -opt-malloc-options=3`

C++ benchmarks:

`-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/users/rahul/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/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include`

`456.hmmer: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/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:

Continued on next page



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Peak Optimization Flags (Continued)

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

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

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

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

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive

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

462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap

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.20090714.11.html>



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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.20090714.11.xml>

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