



# SPEC® CINT2006 Result

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## Acer Incorporated

SPECint®\_rate2006 = 84.2

## Acer Altos G540 (Intel Xeon E5335)

SPECint\_rate\_base2006 = 77.7

CPU2006 license: 97

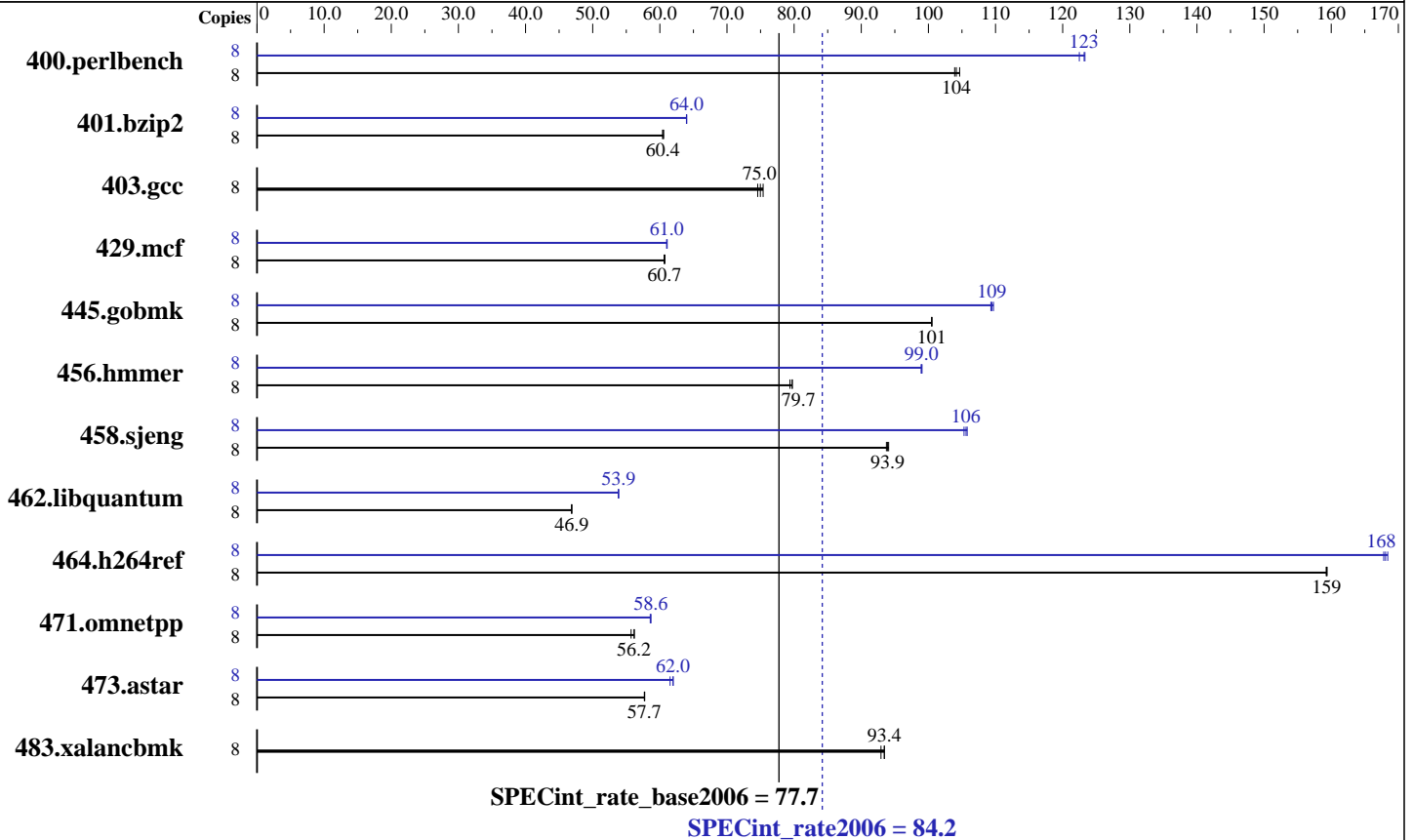
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon E5335  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2000  
 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 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	8	747	105	<b>750</b>	<b>104</b>	752	104	8	638	122	634	123	<b>634</b>	<b>123</b>
401.bzip2	8	1278	60.4	1274	60.6	<b>1277</b>	<b>60.4</b>	8	<b>1207</b>	<b>64.0</b>	1207	64.0	1206	64.0
403.gcc	8	<b>859</b>	<b>75.0</b>	864	74.6	854	75.4	8	<b>859</b>	<b>75.0</b>	864	74.6	854	75.4
429.mcf	8	<b>1202</b>	<b>60.7</b>	1203	60.6	1201	60.8	8	<b>1195</b>	<b>61.0</b>	1194	61.1	1196	61.0
445.gobmk	8	835	100	<b>835</b>	<b>101</b>	835	101	8	<b>767</b>	<b>109</b>	768	109	765	110
456.hammer	8	936	79.7	<b>936</b>	<b>79.7</b>	940	79.4	8	754	98.9	754	99.1	<b>754</b>	<b>99.0</b>
458.sjeng	8	<b>1031</b>	<b>93.9</b>	1029	94.1	1033	93.7	8	915	106	<b>917</b>	<b>106</b>	919	105
462.libquantum	8	<b>3536</b>	<b>46.9</b>	3536	46.9	3537	46.9	8	<b>3078</b>	<b>53.9</b>	3077	53.9	3081	53.8
464.h264ref	8	1111	159	1112	159	<b>1111</b>	<b>159</b>	8	1051	168	1055	168	<b>1053</b>	<b>168</b>
471.omnetpp	8	<b>890</b>	<b>56.2</b>	890	56.2	897	55.7	8	854	58.6	852	58.7	<b>853</b>	<b>58.6</b>
473.astar	8	973	57.7	972	57.7	<b>973</b>	<b>57.7</b>	8	913	61.5	<b>906</b>	<b>62.0</b>	906	62.0
483.xalancbmk	8	<b>591</b>	<b>93.4</b>	594	92.9	591	93.4	8	<b>591</b>	<b>93.4</b>	594	92.9	591	93.4

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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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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