



# SPEC® CINT2006 Result

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## Acer Incorporated

**SPECint®2006 = 27.6**

## Gateway GT110 F1 (Intel Xeon E3110)

**SPECint\_base2006 = 24.7**

CPU2006 license: 97

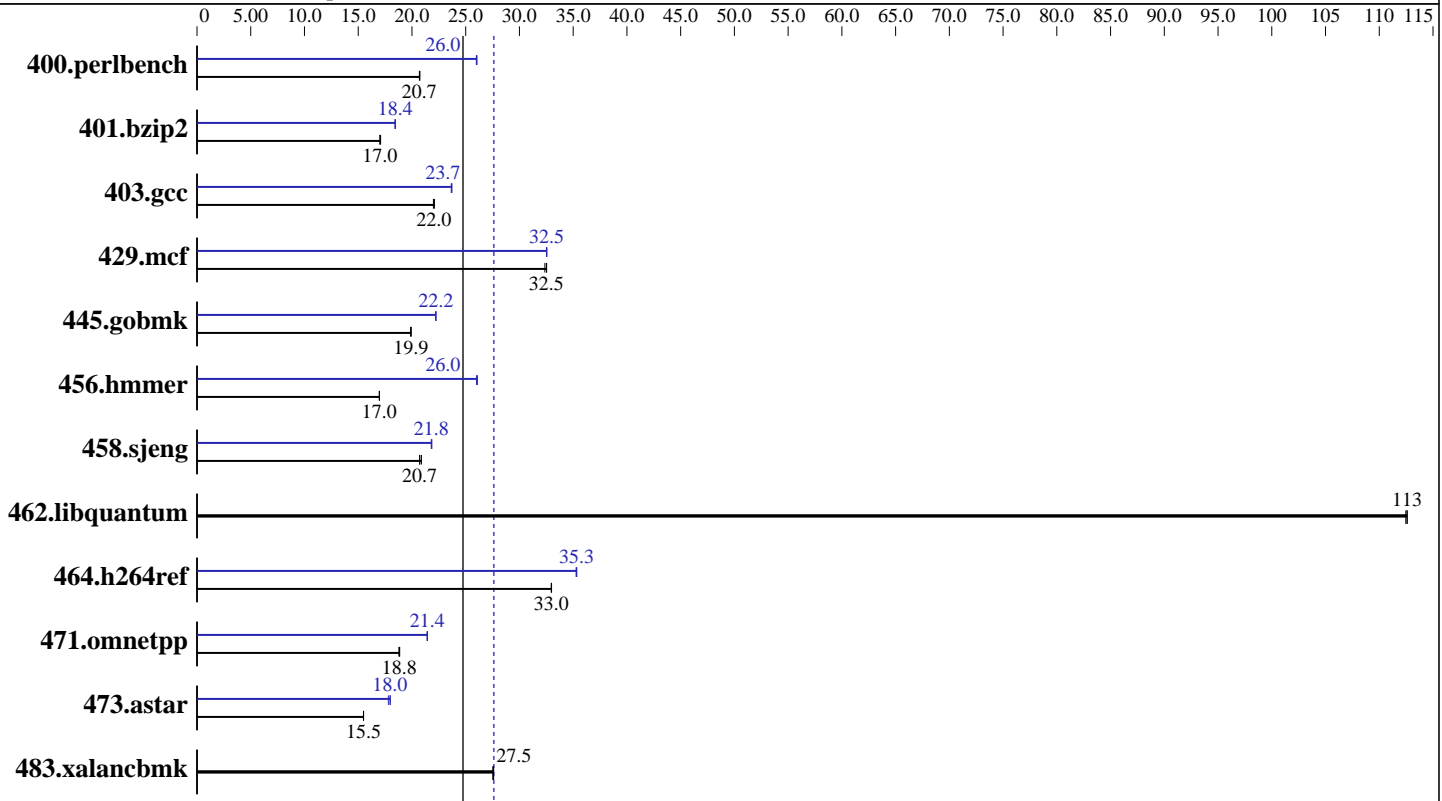
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2009

Hardware Availability: Dec-2009

Software Availability: Nov-2008



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### Hardware

CPU Name: Intel Xeon E3110  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 6 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (4 x 2048 MB ECC Unbuffered DDR2-800 CL5)  
 Disk Subsystem: 1 x 640 GB 7200RPM SATA HDD  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Sserver 11 (x86\_64)  
 Kernel 2.6.27.19-5  
 Compiler: Intel C++ Compiler 11.0 for Linux  
 Build 20080930 Package ID: l\_cproc\_p\_11.0.066  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, level 3  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Microquill SmartHeap V8.1  
 Binutils 2.18.50.0.7.20080502



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## Results Table

| Benchmark      | Base       |             |            |             |            |             | Peak       |             |            |             |            |             |
|----------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
|                | Seconds    | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       |
| 400.perlbench  | <u>472</u> | <u>20.7</u> | 471        | 20.7        | 472        | 20.7        | 376        | 26.0        | <u>375</u> | <u>26.0</u> | 375        | 26.0        |
| 401.bzip2      | 565        | 17.1        | <u>567</u> | <u>17.0</u> | 567        | 17.0        | 523        | 18.4        | <u>523</u> | <u>18.4</u> | 523        | 18.4        |
| 403.gcc        | 365        | 22.1        | <u>365</u> | <u>22.0</u> | 366        | 22.0        | 340        | 23.7        | 340        | 23.7        | <u>340</u> | <u>23.7</u> |
| 429.mcf        | 282        | 32.4        | 280        | 32.5        | <u>281</u> | <u>32.5</u> | 280        | 32.5        | 280        | 32.5        | <u>280</u> | <u>32.5</u> |
| 445.gobmk      | 527        | 19.9        | 527        | 19.9        | <u>527</u> | <u>19.9</u> | <u>472</u> | <u>22.2</u> | 472        | 22.2        | 472        | 22.2        |
| 456.hmmer      | 550        | 17.0        | <u>550</u> | <u>17.0</u> | 550        | 17.0        | 359        | 26.0        | 358        | 26.1        | <u>358</u> | <u>26.0</u> |
| 458.sjeng      | 579        | 20.9        | 584        | 20.7        | <u>584</u> | <u>20.7</u> | 554        | 21.9        | <u>555</u> | <u>21.8</u> | 555        | 21.8        |
| 462.libquantum | 184        | 112         | <u>184</u> | <u>113</u>  | 184        | 113         | 184        | 112         | <u>184</u> | <u>113</u>  | 184        | 113         |
| 464.h264ref    | <u>671</u> | <u>33.0</u> | 671        | 33.0        | 671        | 33.0        | <u>627</u> | <u>35.3</u> | 626        | 35.3        | 627        | 35.3        |
| 471.omnetpp    | 331        | 18.9        | <u>332</u> | <u>18.8</u> | 333        | 18.8        | <u>291</u> | <u>21.4</u> | 292        | 21.4        | 291        | 21.4        |
| 473.astar      | <u>453</u> | <u>15.5</u> | 453        | 15.5        | 453        | 15.5        | 390        | 18.0        | <u>391</u> | <u>18.0</u> | 394        | 17.8        |
| 483.xalancbmk  | 250        | 27.6        | <u>250</u> | <u>27.5</u> | 251        | 27.5        | 250        | 27.6        | <u>250</u> | <u>27.5</u> | 251        | 27.5        |

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

## Operating System Notes

'ulimit -s unlimited' was set for stacksize unlimited

## General Notes

OMP\_NUM\_THREADS set to number of processors  
KMP\_AFFINITY set to "physical,0"

This result was measured on the Gateway GT110 F1.  
The Acer AT110 F1 and Gateway GT110 F1 are electronically equivalent.

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX

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## Base Portability Flags (Continued)

483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel  
-par-runtime-control -opt-prefetch

C++ benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/spec/cpu2006.1.1/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/Compiler/11.0/066/bin/intel64/icc

456.hmmer: /opt/intel/Compiler/11.0/066/bin/intel64/icc

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



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## Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -ansi-alias -opt-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -auto-ilp32 -opt-prefetch  
-ansi-alias

403.gcc: -xSSE4.1 -ipo -O3 -no-prec-div -static -inline-alloc  
-opt-malloc-options=3

429.mcf: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -O2 -ipo  
-no-prec-div -ansi-alias

456.hmmer: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll2  
-ansi-alias -auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll4

462.libquantum: basepeak = yes

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -ansi-alias -opt-ra-region-strategy=block  
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine  
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

483.xalancbmk: basepeak = yes

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca



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|                                     |                    |      |
|-------------------------------------|--------------------|------|
| Acer Incorporated                   | SPECint2006 =      | 27.6 |
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| <b>Test sponsor:</b> Acer Incorporated | <b>Hardware Availability:</b> Dec-2009 |
| <b>Tested by:</b> Acer Incorporated    | <b>Software Availability:</b> Nov-2008 |

The flags file that was used to format this result can be browsed at  
<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revE.20100119.html>

You can also download the XML flags source by saving the following link:  
<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revE.20100119.xml>

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

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