



# SPEC® CINT2006 Result

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## Acer Incorporated

### SPECint®\_rate2006 = 146

### Gateway GB460 F1 (Intel Xeon L5609, 1.86 GHz)

### SPECint\_rate\_base2006 = 135

CPU2006 license: 97

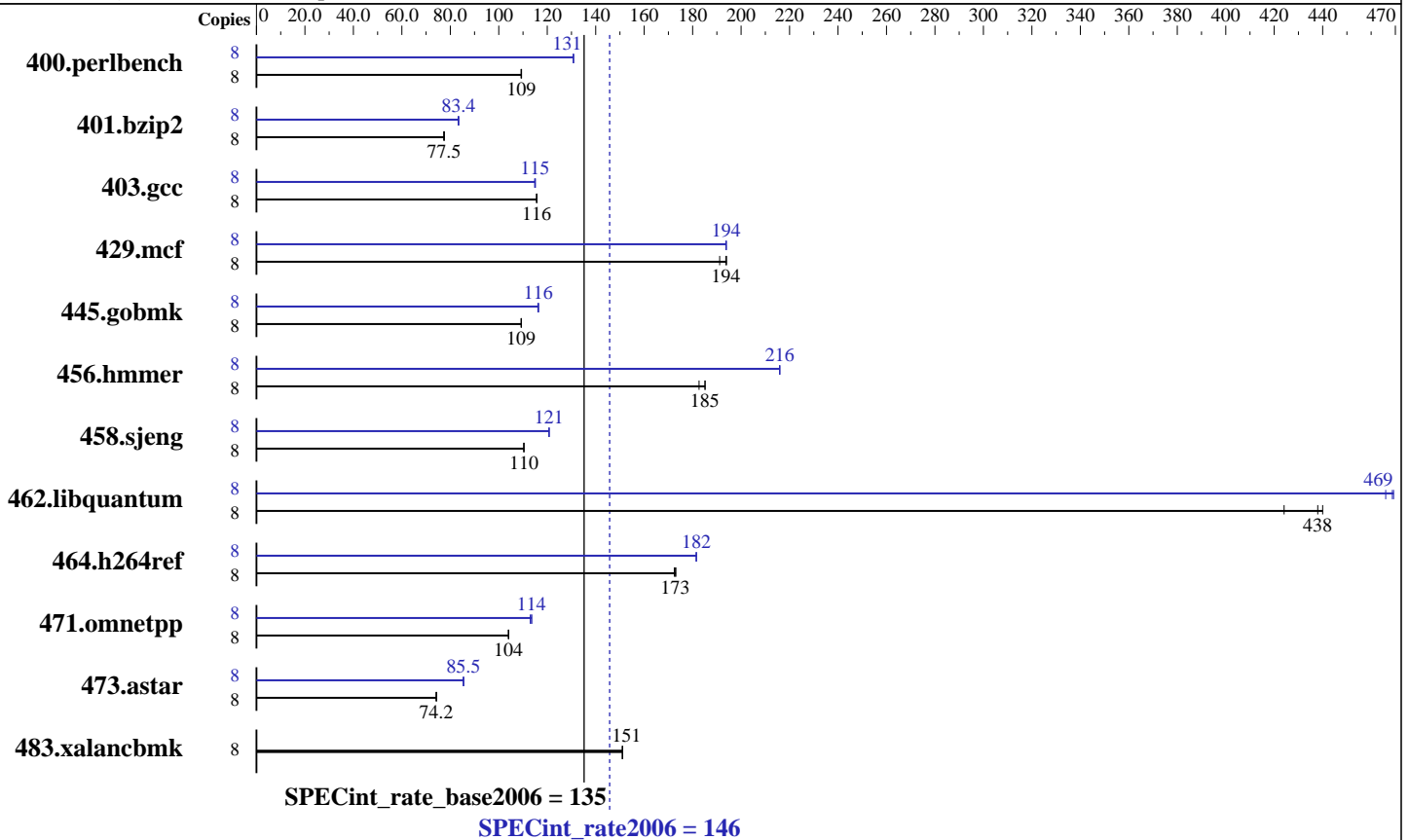
Test date: May-2010

Test sponsor: Acer Incorporated

Hardware Availability: Jul-2010

Tested by: Acer Incorporated

Software Availability: Jan-2010



### Hardware

CPU Name: Intel Xeon L5609  
 CPU Characteristics: 1866  
 CPU MHz: 1866  
 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: 256 KB I+D on chip per core  
 L3 Cache: 12 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 48 GB (12 x 4 GB DDR3-1333 RDIMM, ECC, CL9, memory runs at 1066 MHz)  
 Disk Subsystem: 1 x 146 GB SAS, 15000 RPM  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 11 (x86\_64)  
 Kernel 2.6.27.19-5-default  
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1  
 Build 20091130 Package ID: l\_cproc\_p\_11.1.064  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Run level 3 (multi-user)  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Microquill SmartHeap V8.1



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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  | 8      | 716        | 109         | 714        | 109        | <u>715</u>  | <u>109</u>  | 8      | 597        | 131         | 598        | 131         | <u>598</u> | <u>131</u> |
| 401.bzip2      | 8      | 999        | 77.3        | 995        | 77.6       | <u>997</u>  | <u>77.5</u> | 8      | <u>926</u> | <u>83.4</u> | 925        | 83.5        | 927        | 83.2       |
| 403.gcc        | 8      | 556        | 116         | <u>557</u> | <u>116</u> | 557         | 116         | 8      | <u>560</u> | <u>115</u>  | 559        | 115         | 561        | 115        |
| 429.mcf        | 8      | 382        | 191         | <u>377</u> | <u>194</u> | 376         | 194         | 8      | 376        | 194         | 377        | 194         | <u>376</u> | <u>194</u> |
| 445.gobmk      | 8      | 768        | 109         | <u>768</u> | <u>109</u> | 768         | 109         | 8      | <u>721</u> | <u>116</u>  | 721        | 116         | 723        | 116        |
| 456.hammer     | 8      | <u>403</u> | <u>185</u>  | 409        | 183        | 403         | 185         | 8      | <u>346</u> | <u>216</u>  | 346        | 216         | 346        | 216        |
| 458.sjeng      | 8      | 877        | 110         | 877        | 110        | <u>877</u>  | <u>110</u>  | 8      | <u>802</u> | <u>121</u>  | 802        | 121         | 801        | 121        |
| 462.libquantum | 8      | 391        | 424         | 377        | 440        | <u>378</u>  | <u>438</u>  | 8      | <u>354</u> | <u>469</u>  | 353        | 469         | 356        | 466        |
| 464.h264ref    | 8      | 1023       | 173         | 1027       | 172        | <u>1024</u> | <u>173</u>  | 8      | 975        | 182         | <u>975</u> | <u>182</u>  | 975        | 182        |
| 471.omnetpp    | 8      | <u>481</u> | <u>104</u>  | 481        | 104        | 480         | 104         | 8      | 440        | 114         | <u>440</u> | <u>114</u>  | 443        | 113        |
| 473.astar      | 8      | <u>757</u> | <u>74.2</u> | 755        | 74.4       | 758         | 74.1        | 8      | 657        | 85.5        | <u>657</u> | <u>85.5</u> | 658        | 85.3       |
| 483.xalancbmk  | 8      | 365        | 151         | 366        | 151        | <u>365</u>  | <u>151</u>  | 8      | 365        | 151         | 366        | 151         | <u>365</u> | <u>151</u> |

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

## Submit Notes

The config file option 'submit' was used.  
numactl was used to bind copies to the cores

## Operating System Notes

'ulimit -s unlimited' was used to set the stack size to unlimited prior to run

## Platform Notes

Fan speed set to full Speed (ie. Enterprise Blade mode) with Smart Blade Console through CMM (Chassis Management Module)

## General Notes

Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502

The Acer AB460 F1, and Gateway GB460 F1 are electronically equivalent.  
This result was measured on Gateway GB460 F1.

## Base Compiler Invocation

C benchmarks:  
icc -m32

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## Base Compiler Invocation (Continued)

C++ benchmarks:  
icpc -m32

## Base Portability Flags

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

## Base Optimization Flags

C benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

C++ benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmarheap

## Base Other Flags

C benchmarks:  
403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):  
icc -m32

401.bzip2: icc -m64

456.hmmer: icc -m64

458.sjeng: icc -m64

462.libquantum: icc -m64

C++ benchmarks (except as noted below):  
icpc -m32

473.astar: icpc -m64



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## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
 401.bzip2: -DSPEC\_CPU\_LP64  
 456.hmmer: -DSPEC\_CPU\_LP64  
 458.sjeng: -DSPEC\_CPU\_LP64  
 462.libquantum: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX  
 473.astar: -DSPEC\_CPU\_LP64  
 483.xalancbmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

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

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

403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static

429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

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

456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2  
 -ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
 -prof-use(pass 2) -unroll4 -auto-ilp32

462.libquantum: -xSSE4.2 -ipo -O3 -no-prec-div -static -auto-ilp32  
 -opt-prefetch

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

C++ benchmarks:

471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
 -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
 -ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs  
 -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap

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## Peak Optimization Flags (Continued)

```
473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
          -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
          -ansi-alias -opt-ra-region-strategy=routine -Wl,-z,muldefs
          -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64
```

```
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-ic11.1-linux64-revE.20100316.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.xml>

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

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