# SPEC® CINT2006 Result



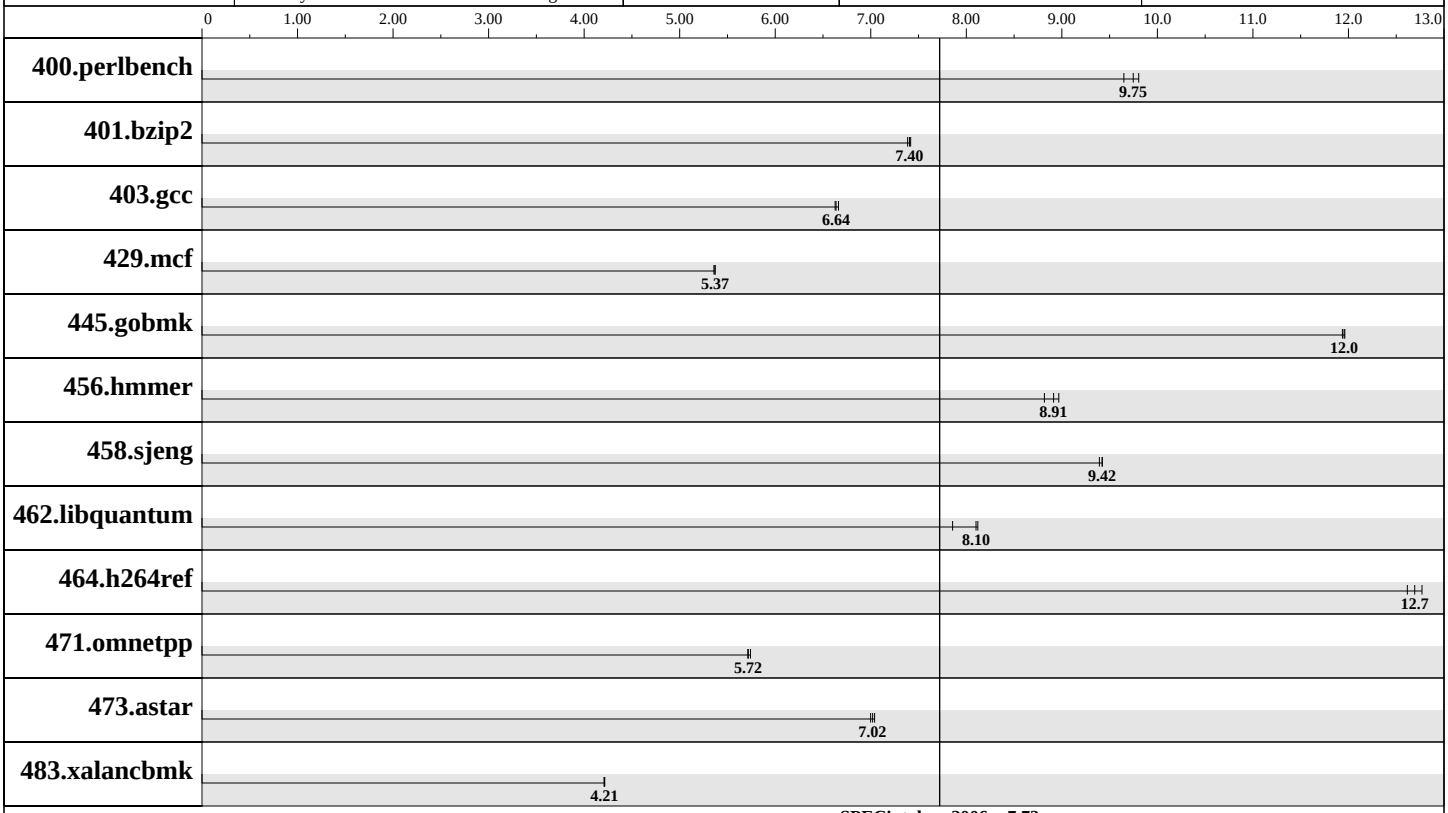
## Dual Core AMD Opteron 270 (4 nucleos)

## Dual Core AMD Opteron 270

SPECint®2006 = Not Run

SPECint_base2006 = 7.72

| CPU2006 license #: 2433 | Test sponsor: DPT Comp.Sciences, Univ.Valladolid<br>Tested by: Sergio Aldea | Test date: Nov-2007 | Hardware Availability: Oct-2007 | Software Availability: Oct-2007 |
|---|---|---|---|---|




### Hardware

| | |
|---|---|
| CPU Name: | x86_64 Dual Core AMD Opteron 270 AuthenticAMD |
| CPU Characteristics: | 2 GHz, 1066 MHz bus |
| CPU MHz: | 1993 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 1 chip, 2 cores/chip |
| CPU(s) orderable: | 1 chip |
| Primary Cache: | 64 KB I + 64 KB D on chip per core |
| Secondary Cache: | 1 MB I+D on chip per core |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 4 GB |
| Disk Subsystem: | |
| Other Hardware: | -- |

### Software

| | |
|---|---|
| Operating System: | Gentoo Base System release 1.12.9 |
| Compiler: | gcc , g++ & gfortran 4.1.2 (Gentoo 4.1.2 p1.0.1) |
| Auto Parallel: | No |
| File System: | ext3 |
| System State: | runlevel 3 |
| Base Pointers: | 64-bit |
| Peak Pointers: | 64-bit |
| Other Software: | None |

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|---|---|---|---|---|

## Results Table

| Benchmark | Base | | | | | | Peak | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 996 | 9.80 | **1000** | **9.75** | 1010 | 9.65 | | | | | | |
| 401.bzip2 | 1310 | 7.39 | **1300** | **7.40** | 1300 | 7.42 | | | | | | |
| 403.gcc | 1210 | 6.63 | **1210** | **6.64** | 1210 | 6.66 | | | | | | |
| 429.mcf | 1700 | 5.36 | **1700** | **5.37** | 1700 | 5.37 | | | | | | |
| 445.gobmk | 879 | 11.9 | **878** | **12.0** | 877 | 12.0 | | | | | | |
| 456.hmmer | 1060 | 8.82 | **1050** | **8.91** | 1040 | 8.97 | | | | | | |
| 458.sjeng | 1280 | 9.42 | **1280** | **9.42** | 1290 | 9.39 | | | | | | |
| 462.libquantum | 2550 | 8.12 | 2640 | 7.86 | **2560** | **8.10** | | | | | | |
| 464.h264ref | **1740** | **12.7** | 1730 | 12.8 | 1750 | 12.6 | | | | | | |
| 471.omnetpp | 1090 | 5.71 | 1090 | 5.74 | **1090** | **5.72** | | | | | | |
| 473.astar | 997 | 7.04 | 1000 | 7.00 | **1000** | **7.02** | | | | | | |
| 483.xalancbmk | 1640 | 4.21 | **1640** | **4.21** | 1640 | 4.22 | | | | | | |

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

## General Notes

```
PORTABILITY=-DSPEC_CPU_LP64 is applied to all benchmarks in base.
400.perlbench: -DSPEC_CPU_LINUX_X64
462.libquantum: -DSPEC_CPU_LINUX
C base flags: -O3 -ipo -xW -no-prec-div -axW -funroll-all-loops
C++ base flags: -O3 -ipo -xW -no-prec-div -axW -funroll-all-loops
Fortran base flags: -O3 -ipo -xW -no-prec-div -axW -funroll-all-loops
```

## Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

## Base Portability Flags

C benchmarks (except as noted below):
`-DSPEC_CPU_LP64`

400.perlbench: `-DSPEC_CPU_LINUX_X64 -DSPEC_CPU_LP64`

403.gcc: `-DSPEC_CPU_LP64`

462.libquantum: `-DSPEC_CPU_LINUX -DSPEC_CPU_LP64`

Continued on next page

## Base Portability Flags (Continued)

C++ benchmarks:

471.omnetpp: `-DSPEC_CPU_LP64`

473.astar: `-DSPEC_CPU_LITTLE_ENDIAN -DSPEC_CPU_LP64`

483.xalancbmk: `-DSPEC_CPU_LINUX -DSPEC_CPU_LP64`

## Base Optimization Flags

C benchmarks:

```
-O3 -ipo -no-prec-div -funroll-all-loops -axW -xW
```

C++ benchmarks:

```
-O3 -ipo -no-prec-div -funroll-all-loops -axW -xW
```

## Base Other Flags

C benchmarks:

```
No flags used
```

C++ benchmarks:

```
No flags used
```