

# SPEC<sup>®</sup> CINT2006 Result

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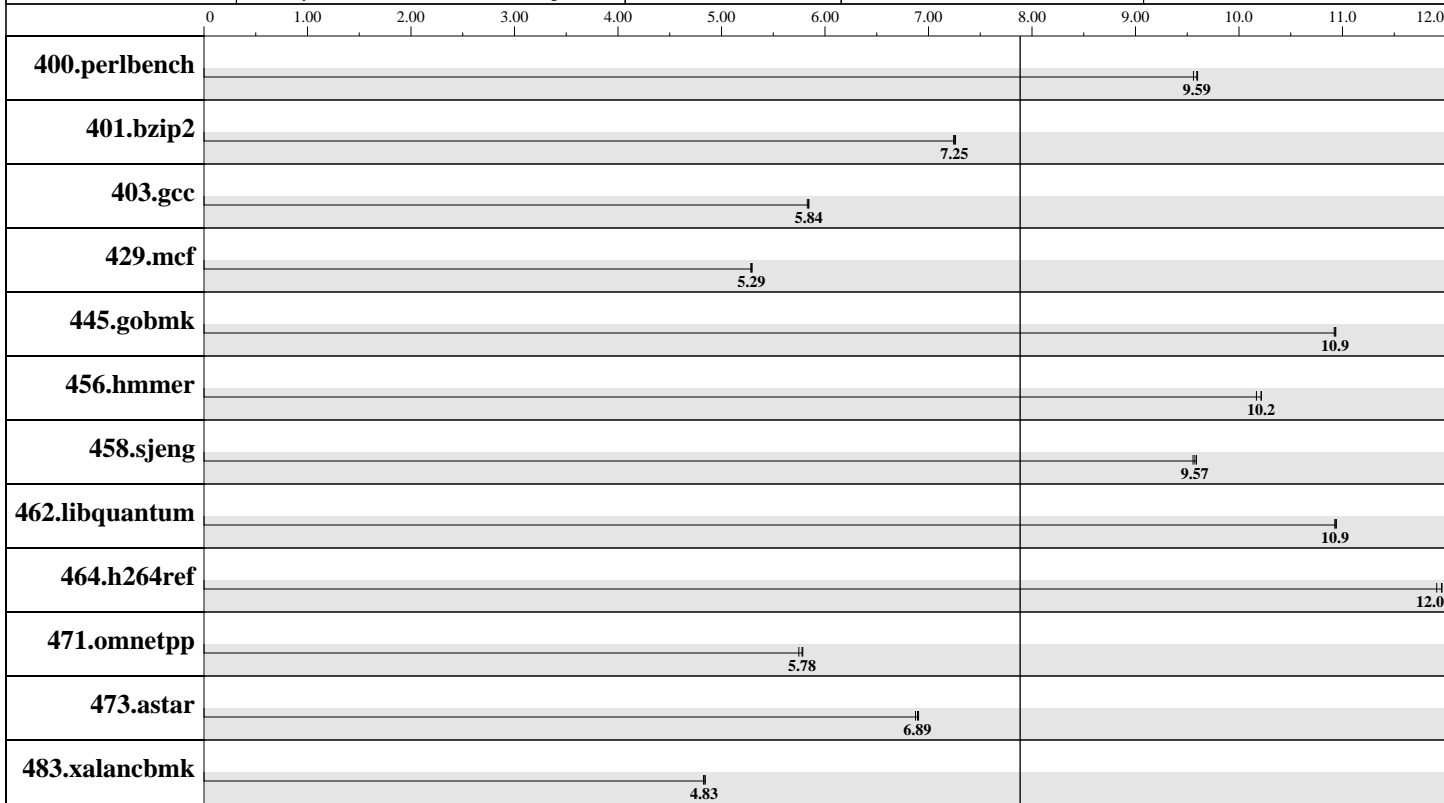
Dual Core AMD Opteron 270 (4 nucleos)

SPECint<sup>®</sup>2006 = Not Run

Dual Core AMD Opteron 270

SPECint\_base2006 = 7.89

CPU2006 license #: 2433 | Test sponsor: DPT Comp.Sciences, Univ.Valladolid | Test date: Feb-2008 | Hardware Availability: Oct-2007 | Software Availability: Feb-2008  
 Tested by: Sergio Aldea



SPECint\_base2006 = 7.89

## 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: Sun C 5.9 Linux\_i386 Patch 124871-01  
 Sun C++ 5.9 Linux\_i386 Patch 124865-01  
 Sun Fortran 95 8.3 Linux\_i386 Patch 127145-01  
 Auto Parallel: Yes  
 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	<b>1020</b>	<b>9.59</b>	1020	9.60	1020	9.56						
401.bzip2	1330	7.24	<b>1330</b>	<b>7.25</b>	1330	7.26						
403.gcc	1380	5.83	<b>1380</b>	<b>5.84</b>	1380	5.84						
429.mcf	<b>1720</b>	<b>5.29</b>	1730	5.28	1720	5.30						
445.gobmk	<b>960</b>	<b>10.9</b>	961	10.9	959	10.9						
456.hammer	<b>913</b>	<b>10.2</b>	918	10.2	913	10.2						
458.sjeng	1260	9.59	1270	9.56	<b>1260</b>	<b>9.57</b>						
462.libquantum	1900	10.9	1890	10.9	<b>1900</b>	<b>10.9</b>						
464.h264ref	1860	11.9	<b>1850</b>	<b>12.0</b>	1850	12.0						
471.omnetpp	<b>1080</b>	<b>5.78</b>	1090	5.75	1080	5.79						
473.astar	1020	6.87	<b>1020</b>	<b>6.89</b>	1020	6.90						
483.xalancbmk	<b>1430</b>	<b>4.83</b>	1430	4.83	1420	4.84						

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: -fast -xarch=sse3 -m64 -xautopar -xreduction

C++ base flags: -fast -xarch=sse3 -m64 -library=stlport4 (except for 453.povray) -xautopar -xreduction

Fortran base flags: -fast -xarch=sse3 -m64 -xautopar -xreduction

## Base Compiler Invocation

C benchmarks:  
suncc

C++ benchmarks:  
cc

## 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

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## 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 (except as noted below):

-fast -xarch=sse3 -xautopar -xreduction -m64

400.perlbench: -fast -xarch=sse3 -m64

C++ benchmarks:

-fast -library=stlport4 -xarch=sse3 -xautopar -xreduction -m64

## Base Other Flags

C benchmarks:

No flags used

C++ benchmarks:

No flags used

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