SPEC® CINT2006 Result

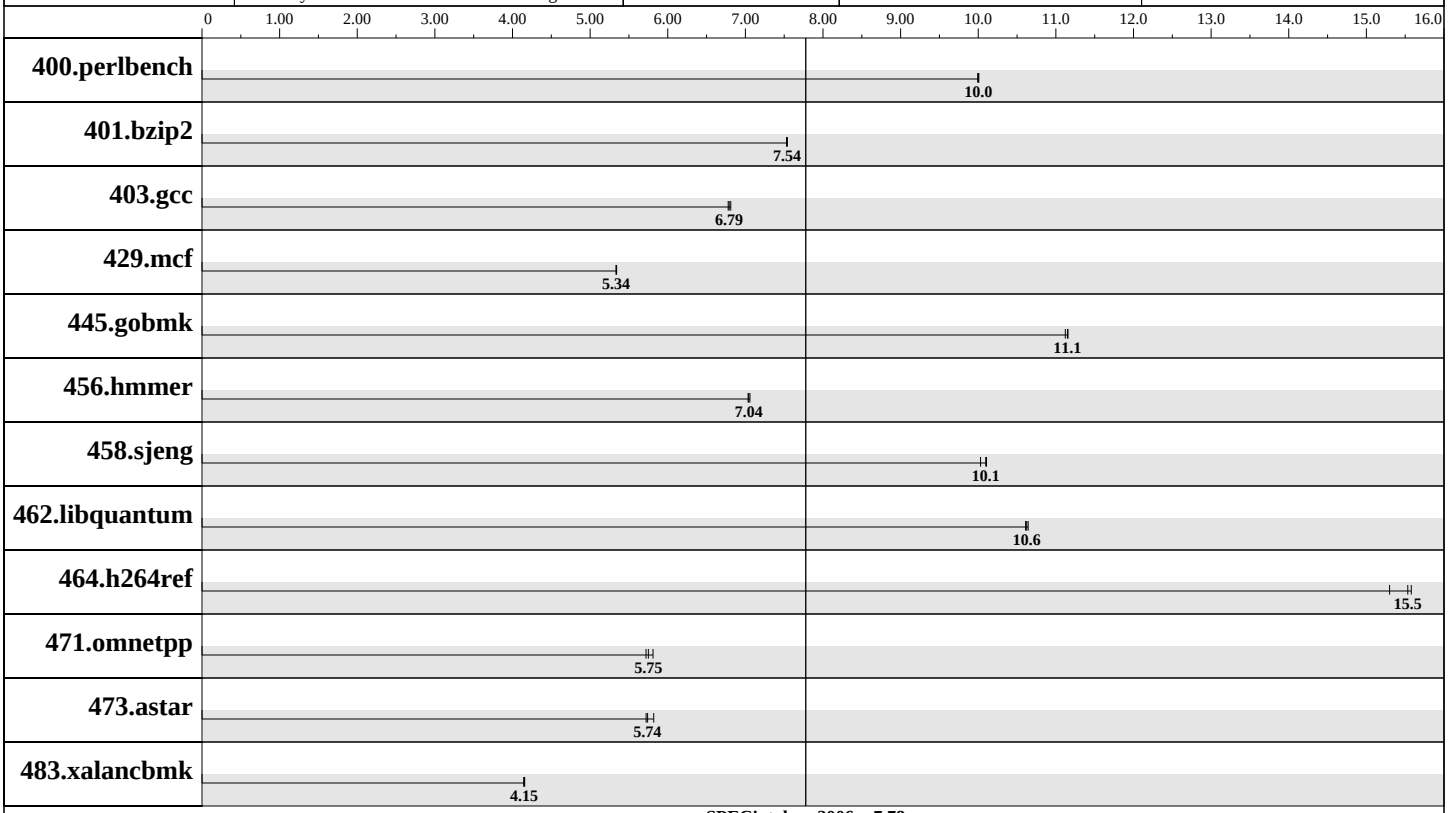
Dual Core AMD Opteron 270 (4 nucleos)

Dual Core AMD Opteron 270

SPECint®2006 = Not Run

SPECint_base2006 = 7.78

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



SPECint_base2006 = 7.78

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

SPEC CINT2006 Result

Dual Core AMD Opteron 270 (4 nucleos)
Dual Core AMD Opteron 270

SPECint2006 = Not Run

SPECint_base2006 = 7.78

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

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**977**	**10.0**	976	10.0	978	9.99						
401.bzip2	1280	7.53	**1280**	**7.54**	1280	7.54						
403.gcc	**1190**	**6.79**	1180	6.81	1190	6.78						
429.mcf	**1710**	**5.34**	1710	5.34	1710	5.33						
445.gobmk	943	11.1	940	11.2	**941**	**11.1**						
456.hmmer	**1320**	**7.04**	1320	7.06	1330	7.04						
458.sjeng	1200	10.1	1210	10.0	**1200**	**10.1**						
462.libquantum	1950	10.6	**1950**	**10.6**	1950	10.6						
464.h264ref	1420	15.6	**1420**	**15.5**	1450	15.3						
471.omnetpp	**1090**	**5.75**	1080	5.81	1090	5.72						
473.astar	1230	5.72	1210	5.82	**1220**	**5.74**						
483.xalancbmk	1660	4.16	**1660**	**4.15**	1660	4.14						

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 -funroll-loops -fno-inline-functions -ftree-vectorize
C++ base flags:-O3 -funroll-loops -fno-inline-functions -ftree-vectorize
Fortran base flags: -O3 -funroll-loops -fno-inline-funcions -ftree-vectorize
```

Base Compiler Invocation

C benchmarks:

```
gcc
```

C++ benchmarks:

```
g++
```

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 -funroll-loops -fno-inline-functions -ftree-vectorize
```

C++ benchmarks:
```
-O3 -funroll-loops -fno-inline-functions -ftree-vectorize
```

Base Other Flags

C benchmarks:
```
No flags used
```

C++ benchmarks:
```
No flags used
```