



SPEC® CINT2006 Result

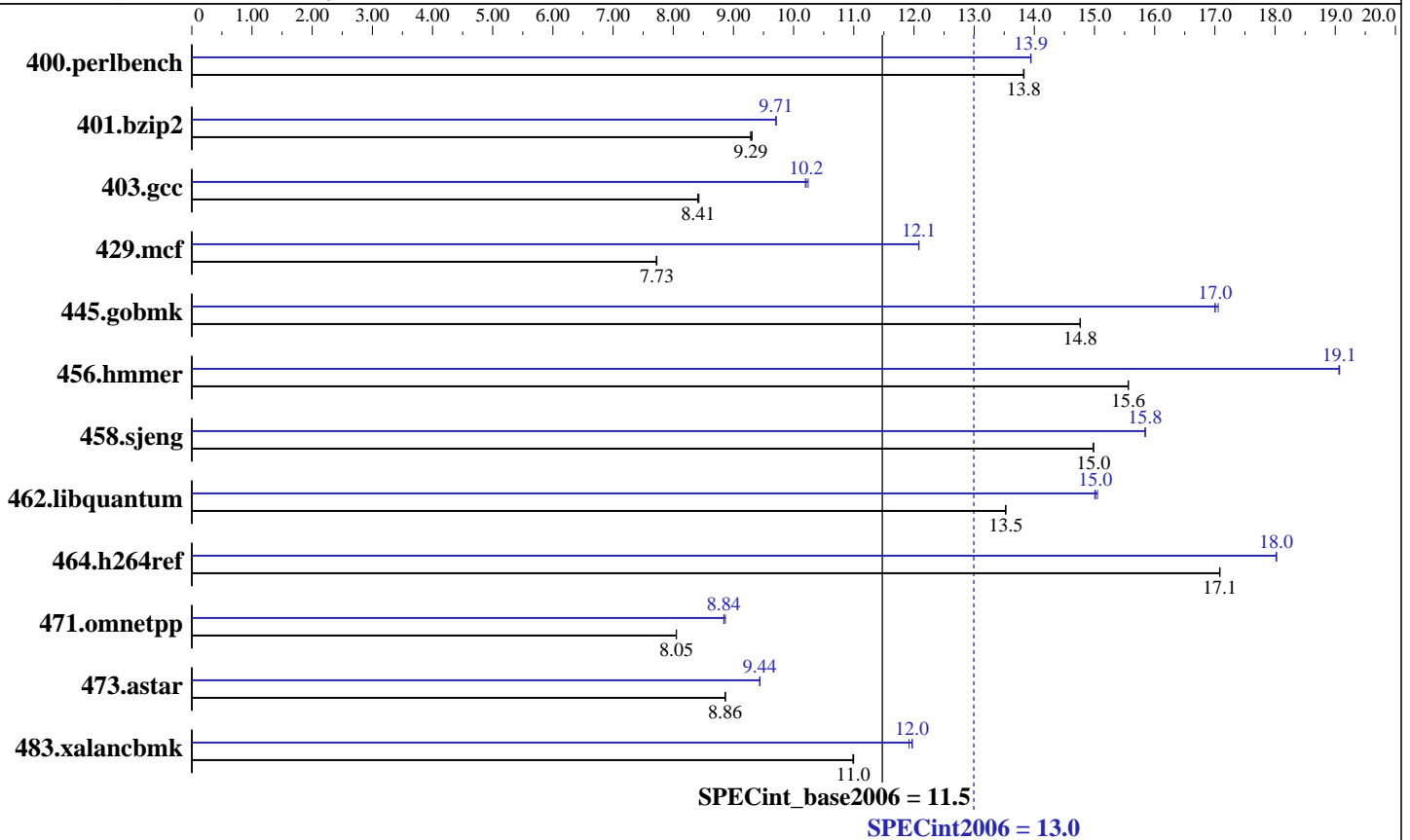
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Sun Microsystems Sun Fire X2100

SPECint®2006 = 13.0
SPECint_base2006 = 11.5

CPU2006 license: 6
Test sponsor: Sun Microsystems
Tested by: Sun Microsystems

Test date: Apr-2006
Hardware Availability: May-2006
Software Availability: Jul-2006



Hardware

CPU Name: AMD Opteron 156
 CPU Characteristics:
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 64 KB I + 64 KB D on chip per chip
 Secondary Cache: 1 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1 GB, PC3200 CL3 ECC)
 Disk Subsystem: SATA,80GB,10K RPM
 Other Hardware: None

Software

Operating System: Solaris 10 1/06
 Compiler: Sun Studio 11 with patch 120759-06
 Auto Parallel: No
 File System: ufs
 System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 32/64-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	706	13.8	707	13.8	<u>707</u>	<u>13.8</u>	701	13.9	701	13.9	<u>701</u>	<u>13.9</u>
401.bzip2	1037	9.31	1039	9.29	<u>1039</u>	<u>9.29</u>	994	9.71	994	9.71	<u>994</u>	<u>9.71</u>
403.gcc	957	8.41	955	8.43	<u>957</u>	<u>8.41</u>	786	10.2	790	10.2	<u>789</u>	<u>10.2</u>
429.mcf	1180	7.73	1182	7.72	<u>1180</u>	<u>7.73</u>	755	12.1	755	12.1	<u>755</u>	<u>12.1</u>
445.gobmk	<u>711</u>	<u>14.8</u>	710	14.8	711	14.8	615	17.1	617	17.0	<u>617</u>	<u>17.0</u>
456.hammer	600	15.6	<u>600</u>	<u>15.6</u>	600	15.6	489	19.1	<u>489</u>	<u>19.1</u>	489	19.1
458.sjeng	<u>808</u>	<u>15.0</u>	808	15.0	808	15.0	<u>764</u>	<u>15.8</u>	764	15.8	764	15.8
462.libquantum	<u>1532</u>	<u>13.5</u>	1532	13.5	1532	13.5	1377	15.0	1381	15.0	<u>1380</u>	<u>15.0</u>
464.h264ref	1296	17.1	1295	17.1	<u>1295</u>	<u>17.1</u>	1228	18.0	<u>1228</u>	<u>18.0</u>	1228	18.0
471.omnetpp	776	8.05	776	8.05	<u>776</u>	<u>8.05</u>	707	8.84	<u>707</u>	<u>8.84</u>	705	8.87
473.astar	792	8.87	792	8.86	<u>792</u>	<u>8.86</u>	744	9.44	<u>744</u>	<u>9.44</u>	744	9.44
483.xalancbmk	627	11.0	<u>628</u>	<u>11.0</u>	628	11.0	576	12.0	579	11.9	<u>577</u>	<u>12.0</u>

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

Operating System Notes

```
ulimit -s 131072 (shell): increases stack
```

```
/etc/system parameters
```

```
tune_t_fsflushr=1
```

```
Controls how many seconds elapse between runs of the  
page flush daemon, fsflush.
```

```
autoup=900
```

```
Causes pages older than the listed number of seconds to  
be written by fsflush.
```

Platform Notes

Default BIOS settings were used.

Base Compiler Invocation

C benchmarks:

```
cc
```

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Base Compiler Invocation (Continued)

C++ benchmarks:
cc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS

Base Optimization Flags

C benchmarks:
-fast -xipo=2 -xarch=amd64a
C++ benchmarks:
-fast -xipo=2 -xarch=amd64a -library=stlport4

Base Other Flags

C benchmarks:
-V
C++ benchmarks:
-verbose=version

Peak Compiler Invocation

C benchmarks:
cc
C++ benchmarks:
CC



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Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS_X64
403.gcc: -DSPEC_CPU_SOLARIS
462.libquantum: -DSPEC_CPU_SOLARIS
483.xalancbmk: -DSPEC_CPU_SOLARIS

Peak Optimization Flags

C benchmarks:

400.perlbench: -fast -xarch=amd64a
401.bzip2: ONESTEP -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=2m
-xcrossfile -xarch=sse2a -M /usr/lib/ld/map.bssalign
403.gcc: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xbuiltin=%none
429.mcf: -fast -xpagesize=2m -M /usr/lib/ld/map.bssalign
445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xarch=amd64a
-xrestrict -xalias_level=strong -xdepend
456.hmmcr: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xarch=amd64a
458.sjeng: -fast -xarch=amd64a -xipo=2 -xprefetch=auto
-xprefetch_level=3 -xpagesize=2m
462.libquantum: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xarch=amd64a
-xipo=2 -xunroll=8
464.h264ref: -fast -xarch=amd64a -xipo=2 -xvector -xunroll=8
-xalias_level=strong -xrestrict

C++ benchmarks:

471.omnetpp: -fast -xarch=amd64a -xipo=2 -xprefetch_level=3
-xpagesize=2m -Qoption ube -fsimple=3 -library=stlport4
473.astar: -fast -xarch=amd64a -xipo=2 -xprefetch_level=3
-xpagesize=2m -library=stlport4
483.xalancbmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xarch=sse2a -library=stlport4



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Peak Other Flags

C benchmarks:
-V

C++ benchmarks:
-verbose=version

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio-Opteron.20090715.02.html>

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

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio-Opteron.20090715.02.xml>

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v91.
Report generated on Tue Jul 22 09:57:33 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 August 2006.