



SPEC® CINT2006 Result

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Sun Microsystems Sun Blade T6320

SPECint®_rate2006 = 78.6
SPECint_rate_base2006 = 73.1

CPU2006 license: 6

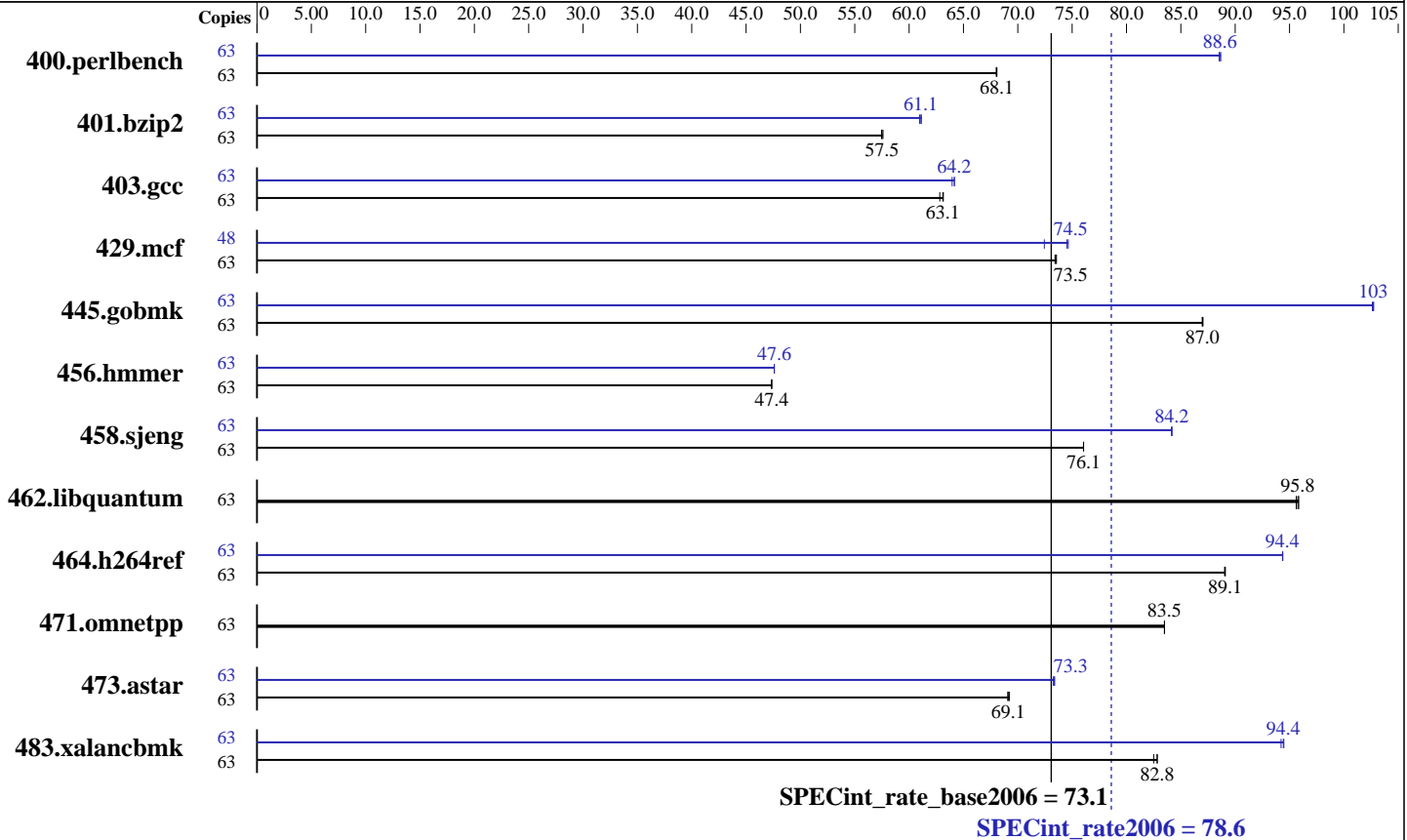
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Oct-2007

Hardware Availability: Feb-2008

Software Availability: Sep-2007



Hardware

CPU Name: UltraSPARC T2
 CPU Characteristics:
 CPU MHz: 1417
 FPU: Integrated
 CPU(s) enabled: 8 cores, 1 chip, 8 cores/chip, 8 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 16 KB I + 8 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 64 GB (16 x 4 GB)
 Disk Subsystem: 1 x SUN72G 10K RPM SAS disk
 ufs fragment size 8192 bytes
 Other Hardware: None

Software

Operating System: Solaris 10 8/07 (build s10s_u4wos_12b)
 Compiler: Sun Studio 12 (patch build 2007/08/30)
 Auto Parallel: No
 File System: ufs
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None



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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	63	9042	68.1	9050	68.0	9043	68.1	63	6948	88.6	6953	88.5	6941	88.7		
401.bzip2	63	10572	57.5	10580	57.5	10556	57.6	63	9946	61.1	9972	61.0	9953	61.1		
403.gcc	63	8031	63.2	8037	63.1	8073	62.8	63	7904	64.2	7930	64.0	7904	64.2		
429.mcf	63	7818	73.5	7825	73.4	7811	73.6	48	6043	72.4	5874	74.5	5864	74.6		
445.gobmk	63	7599	87.0	7593	87.0	7597	87.0	63	6432	103	6440	103	6435	103		
456.hammer	63	12412	47.4	12413	47.4	12413	47.4	63	12351	47.6	12348	47.6	12349	47.6		
458.sjeng	63	10023	76.1	10025	76.0	10024	76.1	63	9057	84.2	9058	84.2	9056	84.2		
462.libquantum	63	13652	95.6	13631	95.8	13619	95.8	63	13652	95.6	13631	95.8	13619	95.8		
464.h264ref	63	15648	89.1	15660	89.0	15653	89.1	63	14776	94.4	14775	94.4	14771	94.4		
471.omnetpp	63	4716	83.5	4716	83.5	4716	83.5	63	4716	83.5	4716	83.5	4716	83.5		
473.astar	63	6402	69.1	6399	69.1	6388	69.2	63	6031	73.3	6038	73.3	6026	73.4		
483.xalancbmk	63	5269	82.5	5248	82.8	5249	82.8	63	4601	94.5	4614	94.2	4604	94.4		

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

Compiler Invocation Notes

Compiler patches are available at
http://developers.sun.com/sunstudio/downloads/patches/ss12_patches.jsp
The above result used a 30 August 2007 build of patch 124861-03.

Operating System Notes

Processes were bound to cores using "submit" and "pbind".

ulimit -s 131072 was used to limit the space consumed by the stack (and therefore make more space available to the heap).

The "webconsole" service was turned off using
svcadm disable webconsole

Base Compiler Invocation

C benchmarks:
cc

C++ benchmarks:
CC



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Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-g -fast -xipo=2 -xpagesize=4M -xprefetch_level=2 -xalias_level=std

C++ benchmarks:
-g0 -library=stlport4 -fast -xipo=2 -xpagesize=4M -xdepend
-xprefetch_level=1 -xalias_level=compatible

Base Other Flags

C benchmarks:
-xjobs=32 -V

C++ benchmarks:
-xjobs=32 -verbose=diags,version

Peak Compiler Invocation

C benchmarks:
cc

C++ benchmarks:
CC

Peak Portability Flags

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



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Peak Optimization Flags

C benchmarks:

```

400.perlbench: -g -xprofile=collect:./feedback(pass 1)
               -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
               -xalias_level=std -xipo=2 -Xc -xrestrict -lfast

401.bzip2: -g -xprofile=collect:./feedback(pass 1)
            -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
            -xalias_level=strong

403.gcc: -g -xprofile=collect:./feedback(pass 1)
          -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
          -xalias_level=std -xprefetch_level=2

429.mcf: -g -fast -xpagesize=256M -xipo=2 -xprefetch_level=2
          -xrestrict -xalias_level=std -W2,-Apf:l1list=3
          -W2,-Apf:noinnerl1list -lfast

445.gobmk: -g -xprofile=collect:./feedback(pass 1)
            -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
            -xalias_level=std -xrestrict

456.hmmer: -g -xprofile=collect:./feedback(pass 1)
            -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
            -xipo=2

458.sjeng: Same as 456.hmmer

462.libquantum: basepeak = yes

464.h264ref: -g -xprofile=collect:./feedback(pass 1)
              -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
              -xipo=2 -xalias_level=std

```

C++ benchmarks:

```

471.omnetpp: basepeak = yes

473.astar: -g0 -library=stlport4 -xprofile=collect:./feedback(pass 1)
            -xprofile=use:./feedback(pass 2) -fast -xpagesize_heap=4M
            -xpagesize_stack=64K -xdepend -xalias_level=compatible
            -xipo=2 -xarch=v8plusb -lfast -lbsdmalloc

483.xalancbmk: -g0 -library=stlport4 -fast -xpagesize=4M -xdepend
               -xalias_level=compatible -xipo=2 -xprefetch_level=2 -lfast

```



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Peak Other Flags

C benchmarks:
-xjobs=32 -V

C++ benchmarks:
-xjobs=32 -verbose=diags,version

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12.xml>

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

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