



SPEC® CINT2006 Result

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Sun Microsystems

SPECint®_rate2006 = 78.5

Sun SPARC Enterprise T5120

SPECint_rate_base2006 = 73.0

CPU2006 license: 6

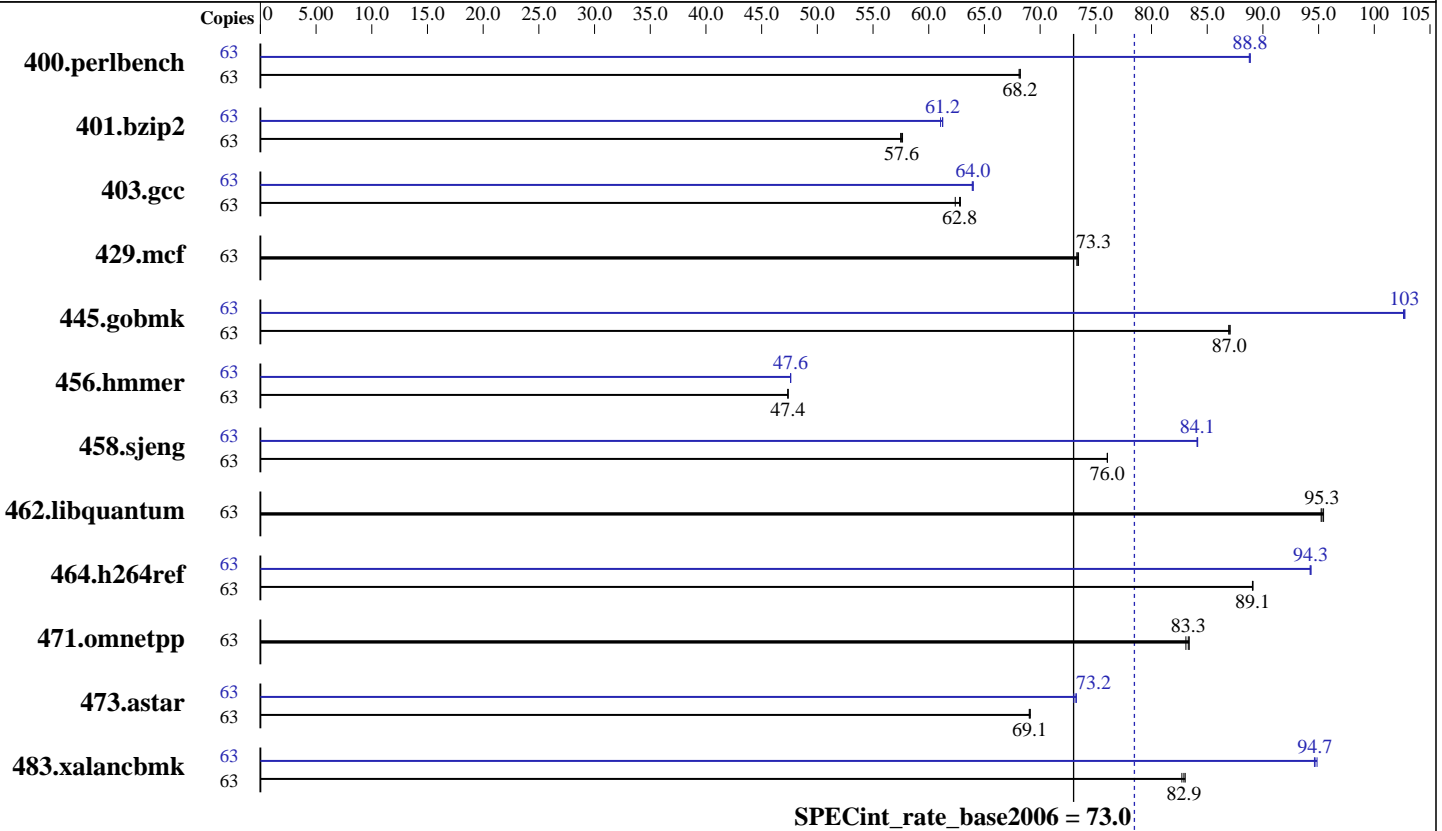
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Sep-2007

Hardware Availability: Oct-2007

Software Availability: Sep-2007



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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: 275 GB Solaris Volume Manager
 RAID 0, interlace 384KB, on
 5 x SUN72G 10K RPM SAS disks;
 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	9026	68.2	9023	68.2	9037	68.1	63	6929	88.8	6926	88.9	6933	88.8
401.bzip2	63	10578	57.5	10546	57.6	10561	57.6	63	9956	61.1	9925	61.3	9927	61.2
403.gcc	63	8070	62.8	8080	62.8	8130	62.4	63	7929	64.0	7936	63.9	7925	64.0
429.mcf	63	7835	73.3	7823	73.4	7838	73.3	63	7835	73.3	7823	73.4	7838	73.3
445.gobmk	63	7598	87.0	7602	86.9	7591	87.1	63	6440	103	6432	103	6433	103
456.hammer	63	12412	47.4	12409	47.4	12409	47.4	63	12348	47.6	12350	47.6	12348	47.6
458.sjeng	63	10025	76.0	10026	76.0	10026	76.0	63	9059	84.1	9065	84.1	9063	84.1
462.libquantum	63	13697	95.3	13708	95.2	13676	95.4	63	13697	95.3	13708	95.2	13676	95.4
464.h264ref	63	15647	89.1	15650	89.1	15655	89.1	63	14794	94.2	14786	94.3	14782	94.3
471.omnetpp	63	4739	83.1	4722	83.4	4727	83.3	63	4739	83.1	4722	83.4	4727	83.3
473.astar	63	6399	69.1	6403	69.1	6407	69.0	63	6037	73.3	6041	73.2	6056	73.0
483.xalancbmk	63	5255	82.7	5243	82.9	5236	83.0	63	4591	94.7	4594	94.6	4583	94.9

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

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).

```

/etc/system parameters
  autoup=600
    Causes pages older than the listed number of seconds to
    be written by fsflush.
  tune_t_fsflushr=10
    Controls how many seconds elapse between runs of the
    page flush daemon, fsflush.

```

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



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Platform Notes

This result was measured on a Sun SPARC Enterprise T5220. All of these are electronically equivalent:

- Sun SPARC Enterprise T5120
- Sun SPARC Enterprise T5220
- Fujitsu SPARC Enterprise T5120
- Fujitsu SPARC Enterprise T5220

This result was run with 5 internal disks. The correct number of disks should have been 4 or fewer for the T5120. The number of disks has a minor effect on T5120 SPEC CPU2006 scores - typically well under 1%. New results have been submitted using 4 or fewer disks.

Base Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

CC

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



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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

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: basepeak = yes
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

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Peak Optimization Flags (Continued)

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

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-Studio12.20090714.html>

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

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12.20090714.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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