SPEC® CINT2006 Result

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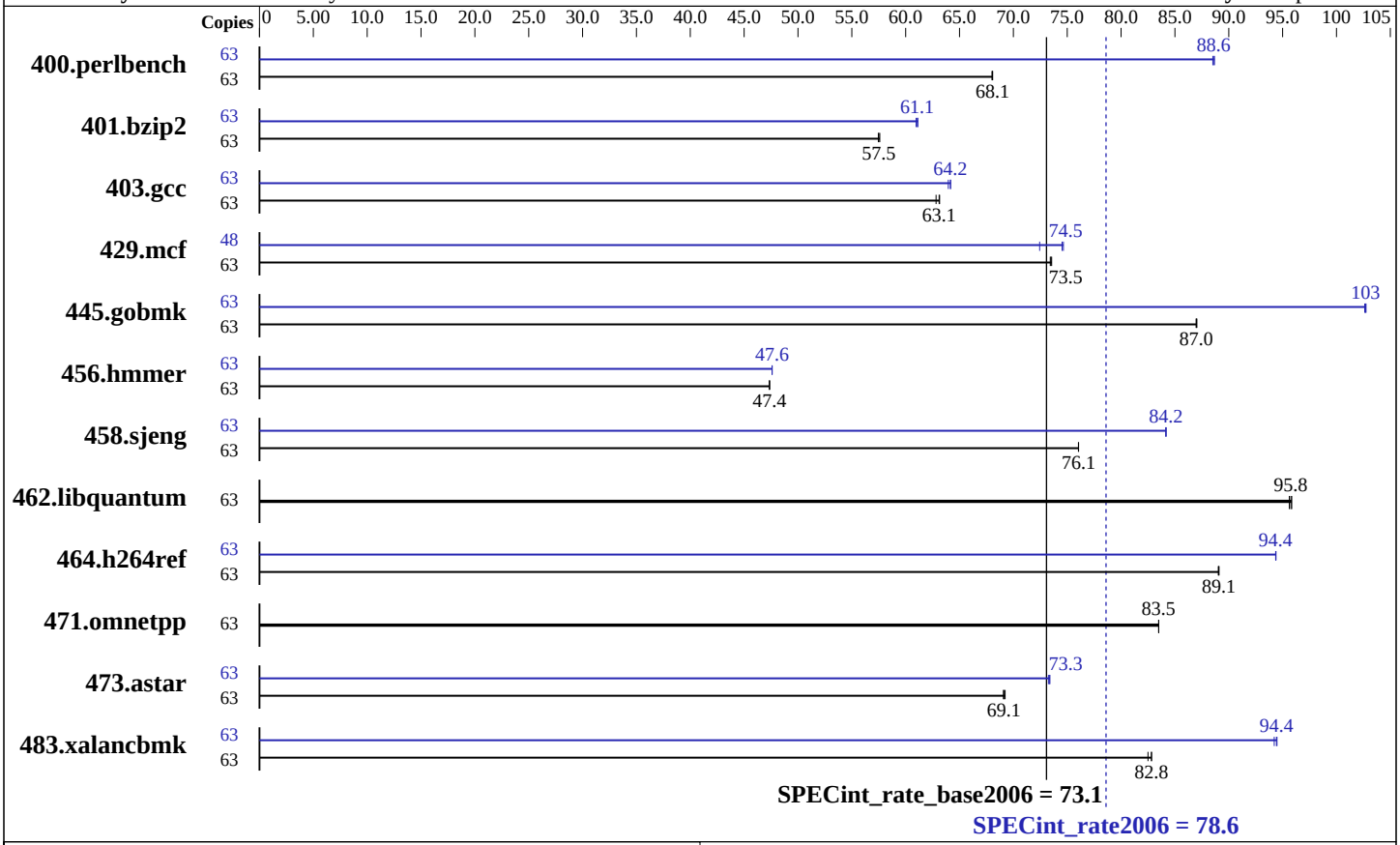
Sun Microsystems
Sun Blade T6320

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.hmmer	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
```

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

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:llist=3`
`-W2,-Apf:noinnerllist -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`

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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