



SPEC[®] CINT2006 Result

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Sun Microsystems Sun Fire E2900

SPECint[®]_rate2006 = 208

SPECint_rate_base2006 = 191

CPU2006 license: 6

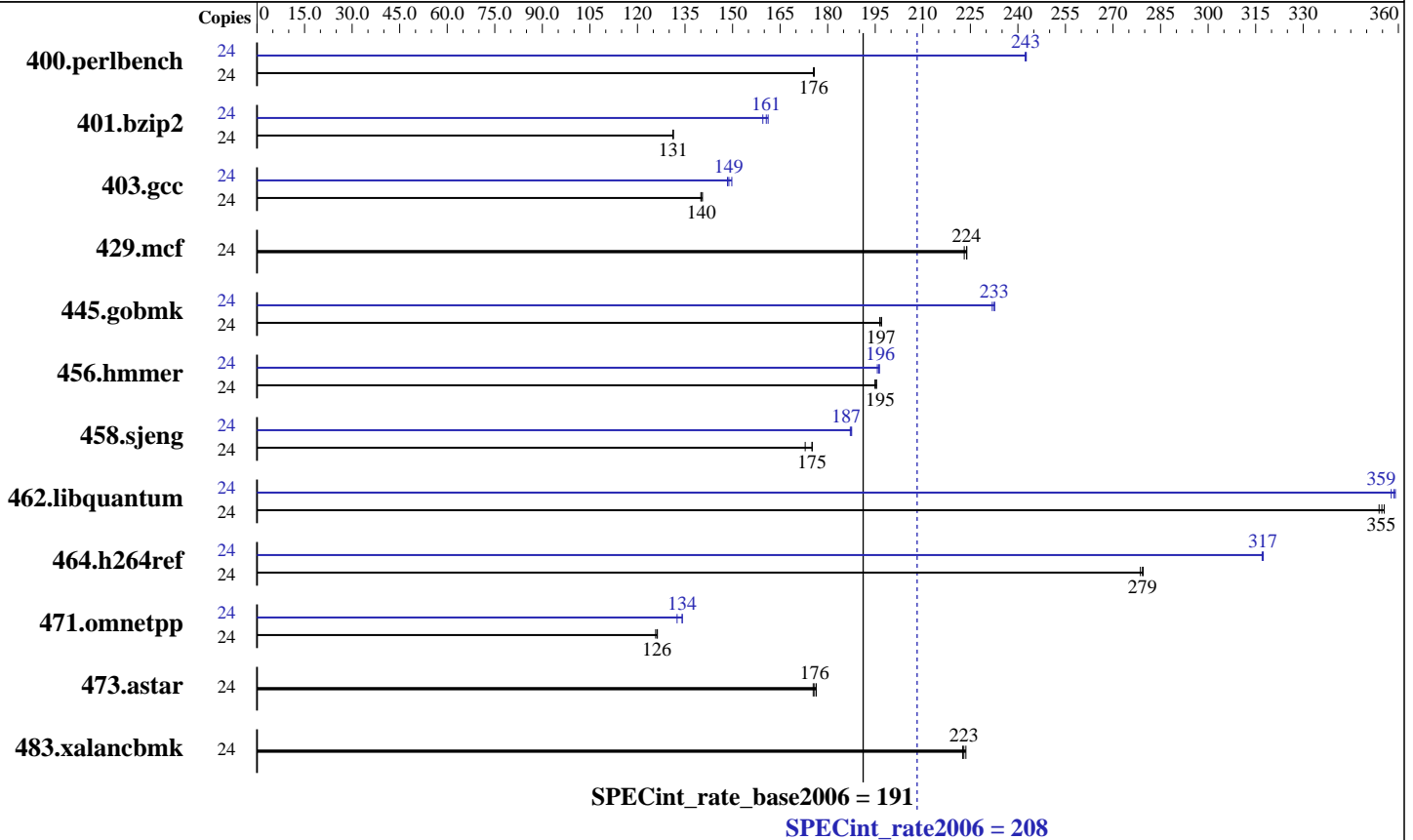
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Feb-2007

Hardware Availability: Apr-2007

Software Availability: May-2007



Hardware

CPU Name: UltraSPARC IV+
 CPU Characteristics:
 CPU MHz: 1950
 FPU: Integrated
 CPU(s) enabled: 24 cores, 12 chips, 2 cores/chip
 CPU(s) orderable: 4, 8, or 12 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip
 L3 Cache: 32 MB I+D off chip per chip
 Other Cache: None
 Memory: 96 GB, 16-way interleaved (96 x 1 GB)
 Disk Subsystem: 2xSCSI 73GB 10k RPM MAP3735N
 Other Hardware: None

Software

Operating System: Solaris 10 6/06
 Compiler: Sun Studio 12 (pre-release build 40)
 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	24	1336	176	<u>1335</u>	<u>176</u>	1334	176	24	<u>967</u>	<u>243</u>	968	242	966	243
401.bzip2	24	<u>1764</u>	<u>131</u>	1764	131	1766	131	24	1437	161	1452	160	<u>1442</u>	<u>161</u>
403.gcc	24	1380	140	1375	141	<u>1378</u>	<u>140</u>	24	1290	150	<u>1298</u>	<u>149</u>	1302	148
429.mcf	24	981	223	<u>978</u>	<u>224</u>	978	224	24	981	223	<u>978</u>	<u>224</u>	978	224
445.gobmk	24	1282	196	1278	197	<u>1279</u>	<u>197</u>	24	1086	232	<u>1083</u>	<u>233</u>	1082	233
456.hammer	24	1146	195	<u>1147</u>	<u>195</u>	1149	195	24	1141	196	1144	196	<u>1142</u>	<u>196</u>
458.sjeng	24	<u>1659</u>	<u>175</u>	1658	175	1680	173	24	1552	187	<u>1550</u>	<u>187</u>	1548	188
462.libquantum	24	1399	356	<u>1402</u>	<u>355</u>	1405	354	24	1385	359	1390	358	<u>1387</u>	<u>359</u>
464.h264ref	24	1906	279	<u>1902</u>	<u>279</u>	1900	280	24	1673	317	1675	317	<u>1674</u>	<u>317</u>
471.omnetpp	24	<u>1189</u>	<u>126</u>	1193	126	1188	126	24	1132	132	1118	134	<u>1119</u>	<u>134</u>
473.astar	24	<u>958</u>	<u>176</u>	955	176	960	175	24	<u>958</u>	<u>176</u>	955	176	960	175
483.xalancbmk	24	744	223	741	224	<u>743</u>	<u>223</u>	24	744	223	741	224	<u>743</u>	<u>223</u>

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

Operating System Notes

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

"ulimit -s 131072" was set
Allows 131072K for the stack, remainder for heap

/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.

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 -xdepend -fast -xipo=2 -xpagesize=4M
-xprefetch_level=1 -xalias_level=compatible -lfast

Base Other Flags

C benchmarks:
-xjobs=24 -V -#

C++ benchmarks:
-xjobs=24 -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 -Xc -xipo=2 -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
          -xipo=2 -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.hmmcr: -g -xprofile=collect:./feedback(pass 1)
            -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
            -xipo=2 -xalias_level=strong

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

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

464.h264ref: -g -xprofile=collect:./feedback(pass 1)
              -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
              -xipo=2 -xalias_level=std -l12amm
```

C++ benchmarks:

```
471.omnetpp: -g0 -library=stlport4 -xdepend
              -xprofile=collect:./feedback(pass 1)
              -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
              -xipo=2 -Qoption cg -Qlp-av=0 -lfast

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes
```



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Peak Other Flags

C benchmarks:
-xjobs=24 -V -#

C++ benchmarks:
-xjobs=24 -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-Studio12.20090714.01.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12.20090714.01.xml>

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

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