SPEC® CINT2006 Result

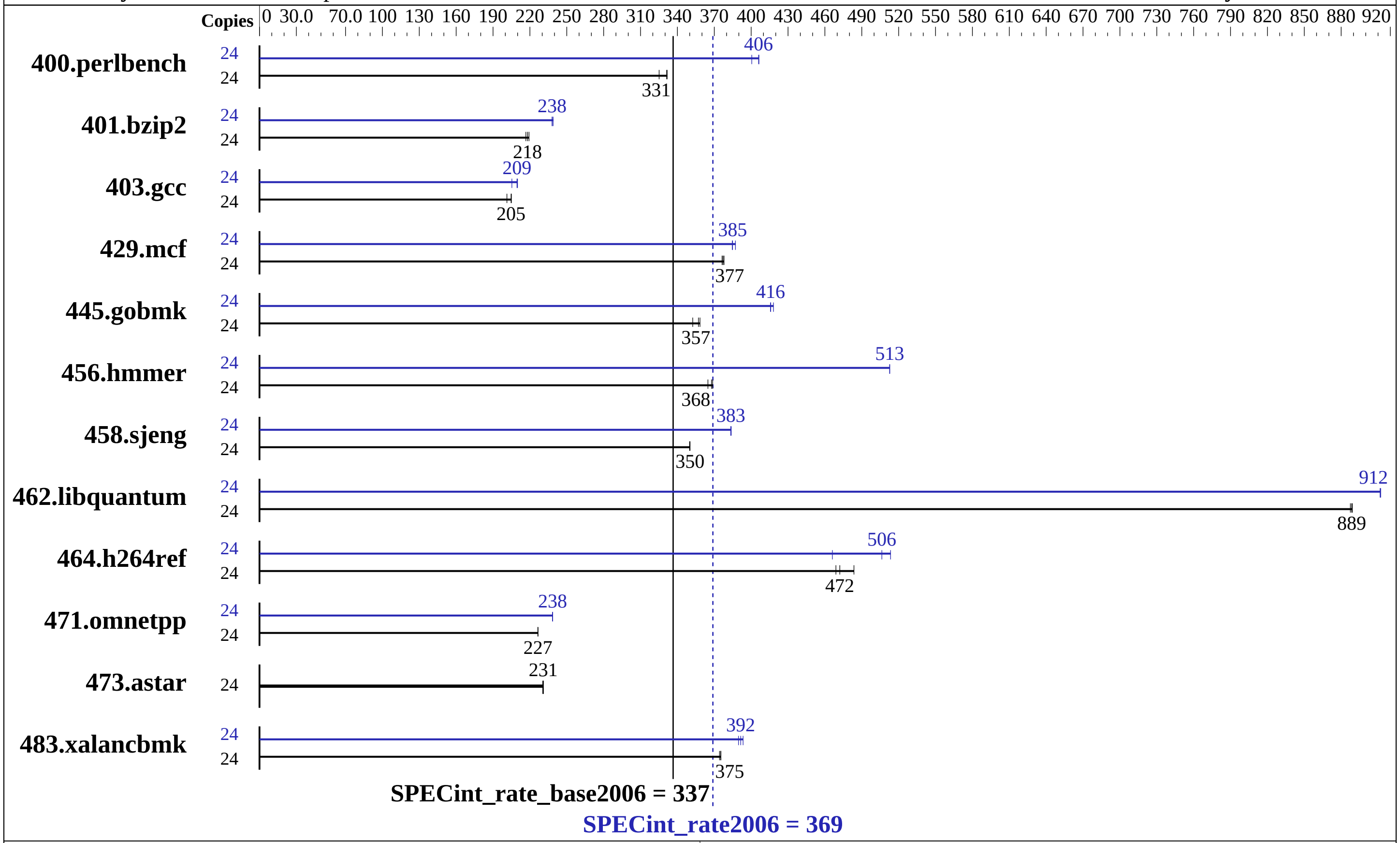
Oracle Corporation

Sun Blade X6270 M2 (Intel Xeon X5680 3.33GHz)

SPECint®_rate2006 = 369

SPECint_rate_base2006 = 337

CPU2006 license: 6		**Test date:**	Mar-2010
Test sponsor:	Oracle Corporation	**Hardware Availability:**	Jun-2010
Tested by:	Oracle Corporation	**Software Availability:**	Jun-2010



Hardware

CPU Name:	Intel Xeon X5680
CPU Characteristics:	Intel Turbo Boost Technology up to 3.60 GHz
CPU MHz:	3333
FPU:	Integrated
CPU(s) enabled:	12 cores, 2 chips, 6 cores/chip, 2 threads/core
CPU(s) orderable:	1 or 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core
L3 Cache:	12 MB I+D on chip per chip
Other Cache:	None
Memory:	48 GB (12 x 4 GB DDR3-1333 CL9, 2 Rank, ECC)
Disk Subsystem:	1 x 300 GB, SAS, 10000 RPM
Other Hardware:	None

Software

Operating System:	Oracle Solaris 10 10/09
Compiler:	Oracle Solaris Studio Express 6/10
Auto Parallel:	No
File System:	ufs
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library 9.01 for x64

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Results Table

	Base							Peak						
Benchmark	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
400.perlbench	24	721	325	**708**	**331**	707	332	24	585	400	577	406	**577**	**406**
401.bzip2	24	1056	219	**1062**	**218**	1069	217	24	969	239	**973**	**238**	973	238
403.gcc	24	960	201	**944**	**205**	943	205	24	920	210	941	205	**922**	**209**
429.mcf	24	**580**	**377**	579	378	582	376	24	565	387	**569**	**385**	569	385
445.gobmk	24	703	358	**705**	**357**	714	352	24	602	418	**605**	**416**	606	416
456.hmmer	24	607	369	**609**	**368**	614	365	24	**437**	**513**	437	513	437	513
458.sjeng	24	**829**	**350**	830	350	829	350	24	757	384	757	383	**757**	**383**
462.libquantum	24	**560**	**889**	560	888	559	889	24	545	912	545	912	**545**	**912**
464.h264ref	24	1098	484	1133	469	**1125**	**472**	24	1034	513	1140	466	**1049**	**506**
471.omnetpp	24	662	227	**662**	**227**	662	226	24	629	238	629	239	**629**	**238**
473.astar	24	731	230	729	231	**730**	**231**	24	731	230	729	231	**730**	**231**
483.xalancbmk	24	**441**	**375**	441	375	442	374	24	421	393	425	390	**423**	**392**

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

Submit Notes

```
The config file option 'submit' was used.
```

Operating System Notes

```
ulimit -s unlimited  (shell)

/etc/system parameters
   tune_t_fsflushr=10
   autoup=900
```

Platform Notes

```
Default BIOS settings used except:
  C-State                 : Disabled
  Data Reuse Optimization : Disabled
```

Base Compiler Invocation

C benchmarks:
 cc

C++ benchmarks:
 CC

Base Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_IA32
403.gcc: -DSPEC_CPU_SOLARIS
462.libquantum: -DSPEC_CPU_SOLARIS
483.xalancbmk: -DSPEC_CPU_SOLARIS

Base Optimization Flags

C benchmarks:
-fast -xtarget=nehalem -xipo=2 -xpagesize=2M
-M /usr/lib/ld/map.bssalign

C++ benchmarks:
-fast -xtarget=nehalem -xipo=2 -xpagesize=2M -xvector=simd
-xalias_level=compatible
-L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap
-library=stlport4

Base Other Flags

C benchmarks:
-V -# -xjobs=24

C++ benchmarks:
-verbose=diags,version -xjobs=24

Peak Compiler Invocation

C benchmarks:
cc

C++ benchmarks:
CC

Peak Portability Flags

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

Peak Optimization Flags

C benchmarks:

400.perlbench: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=1 -m64 -xalias_level=std -lbsdmalloc -lumem

401.bzip2: -fast -xtarget=nehalem -xipo=2 -m64 -xpagesize=2M -xalias_level=std -lumem

403.gcc: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=2 -xpagesize=2M -W2,-Rujam -W2,-Rtile

429.mcf: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=2 -m32 -xpagesize=2M -xalias_level=strong -xprefetch=no%auto -lbsdmalloc

445.gobmk: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -m64 -xpagesize=2M -xrestrict -xalias_level=strong -xdepend

456.hmmer: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=2 -m64

458.sjeng: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=2 -m64 -xpagesize=2M -xalias_level=strong

462.libquantum: -fast -xtarget=nehalem -xipo=2 -m64 -xalias_level=std

464.h264ref: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=2 -m64 -xalias_level=strong -xrestrict

C++ benchmarks:

471.omnetpp: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=2 -xpagesize=2M -library=stlport4 -L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xtarget=nehalem -xipo=2 -xunroll=2 -xpagesize=2M -xalias_level=compatible -L/data1/SmartHeap_9/lib -R/data1/SmartHeap_9/lib -lsmartheap -library=stlport4

Peak Other Flags

C benchmarks:
-V -# -xjobs=24

C++ benchmarks:
-verbose=diags,version -xjobs=24

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Oracle-Solaris-Studio-x86_64.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Oracle-Solaris-Studio-x86_64.xml

Tested with SPEC CPU2006 v1.1.
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