SPEC® CINT2006 Result
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Oracle Corporation

Sun Blade X6270 M2 (Intel Xeon X5680 3.33GHz)
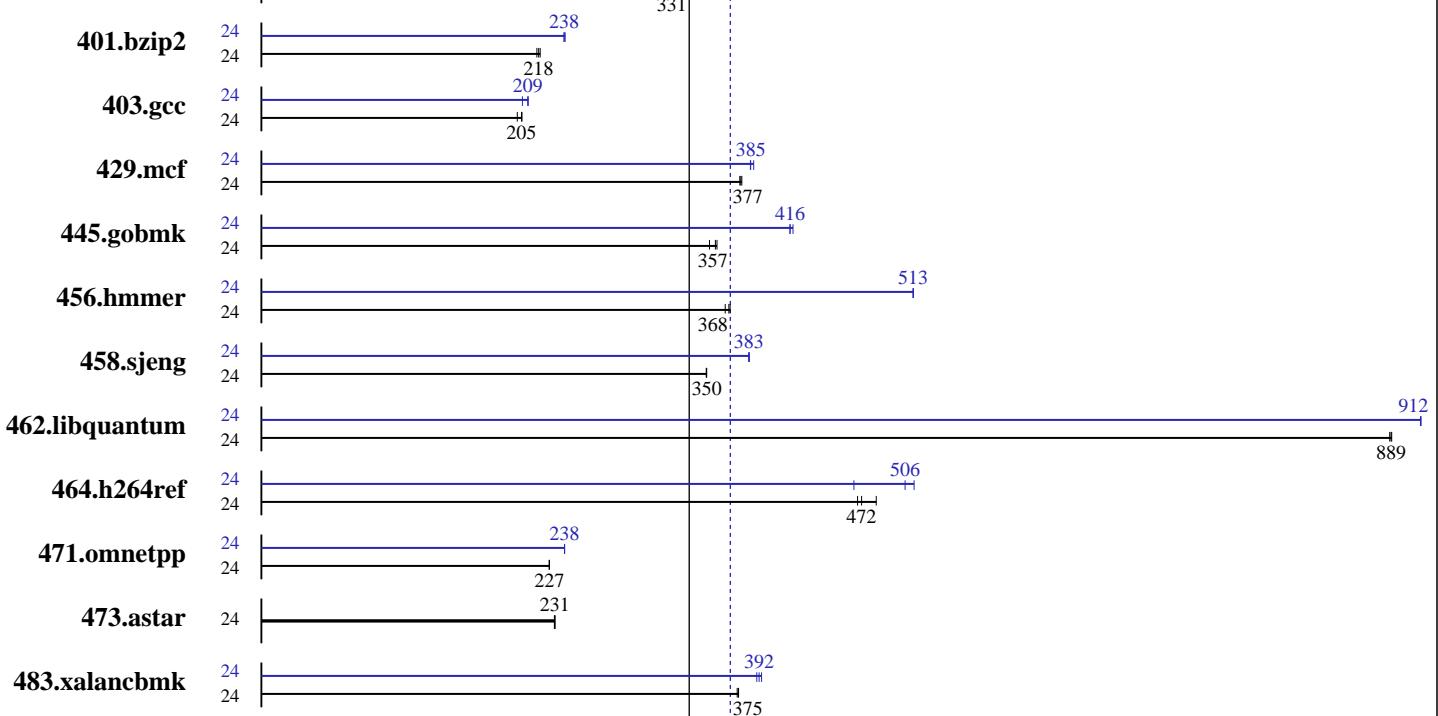
SPECint®_rate2006 = 369

SPECint_rate_base2006 = 337

CPU2006 license: 6
Test sponsor: Oracle Corporation
Tested by: Oracle Corporation

Test date: Mar-2010
Hardware Availability: Jun-2010
Software Availability: Jun-2010

Benchmark	Copies	Result
400.perlbench	24	406
400.perlbench	24	331
401.bzip2	24	238
401.bzip2	24	218
403.gcc	24	209
403.gcc	24	205
429.mcf	24	385
429.mcf	24	377
445.gobmk	24	416
445.gobmk	24	357
456.hmmer	24	513
456.hmmer	24	368
458.sjeng	24	383
458.sjeng	24	350
462.libquantum	24	912
462.libquantum	24	889
464.h264ref	24	506
464.h264ref	24	472
471.omnetpp	24	238
471.omnetpp	24	227
473.astar	24	231
483.xalancbmk	24	392
483.xalancbmk	24	375

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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

Benchmark	Base							Peak						
	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
```

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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
```

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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`

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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

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

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