



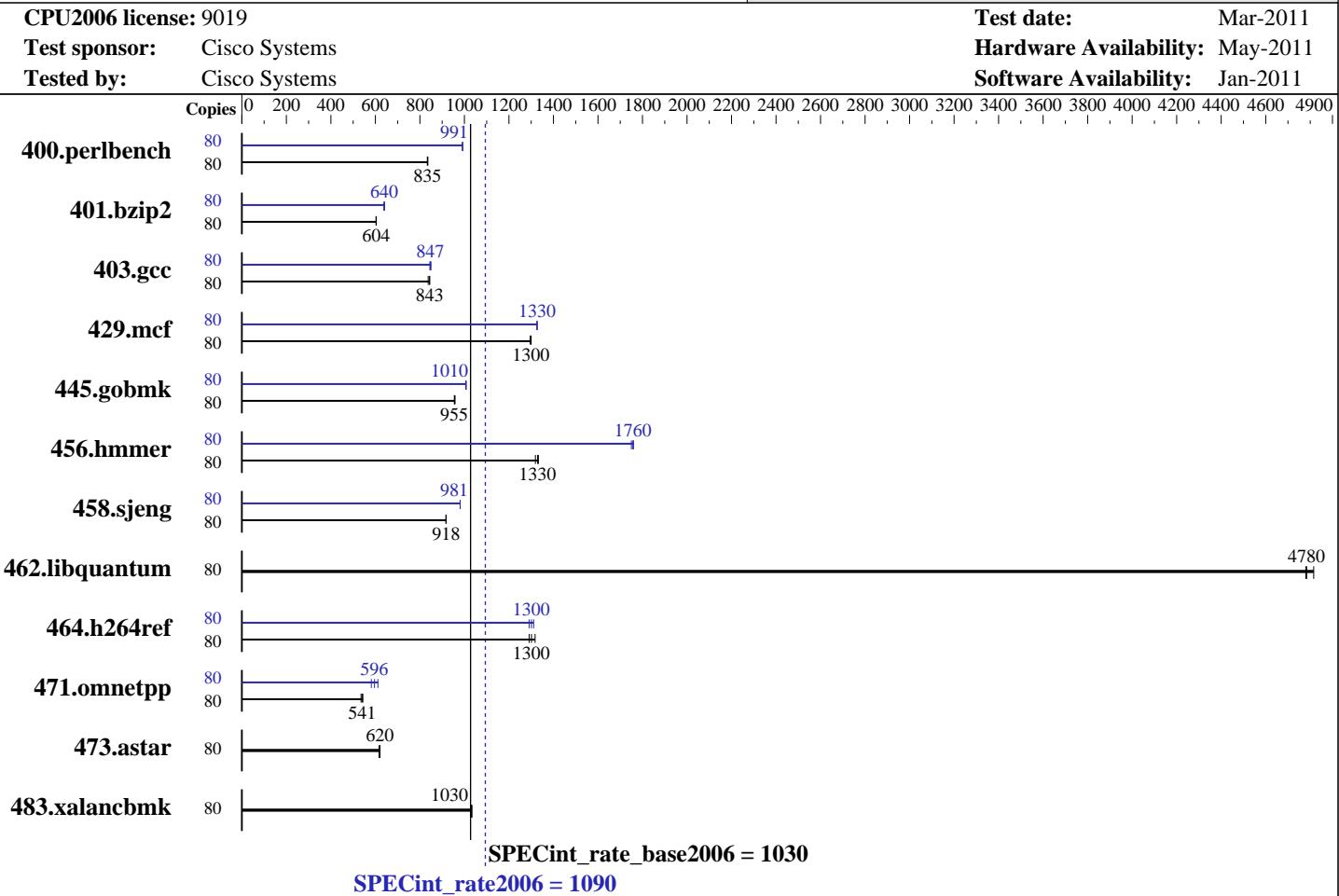
SPEC® CINT2006 Result

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Cisco Systems

Cisco UCS C460 M2 (Intel Xeon E7-4870, 2.40 GHz)

SPECint_rate2006 = 1090



Hardware		Software	
CPU Name:	Intel Xeon E7-4870	Operating System:	Redhat Enterprise Linux 6.0, Kernel 2.6.32-71.el6.x86_64
CPU Characteristics:	Intel Turbo Boost Technology up to 2.80 GHz	Compiler:	Intel C++ Compiler XE for applications running on IA-32
CPU MHz:	2400	Auto Parallel:	Version 12.0.1.116 Build 20101116
FPU:	Integrated	File System:	No
CPU(s) enabled:	40 cores, 4 chips, 10 cores/chip, 2 threads/core	System State:	ext3
CPU(s) orderable:	1,2,3,4 chips	Base Pointers:	Run level 3 (multi-user)
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software:	32/64-bit
L3 Cache:	30 MB I+D on chip per chip		Microquill SmartHeap V9.01
Other Cache:	None		
Memory:	1 TB (64 x 16 GB 4Rx4 PC3-8500R-9, ECC)		
Disk Subsystem:	146 GB SAS, 15K RPM		
Other Hardware:	None		



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SPECint_rate_base2006 = 1030

CPU2006 license: 9019

Test date: Mar-2011

Test sponsor: Cisco Systems

Hardware Availability: May-2011

Tested by: Cisco Systems

Software Availability: Jan-2011

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	80	936	835	938	833	936	835	80	788	992	788	991	789	991
401.bzip2	80	1278	604	1278	604	1281	603	80	1204	641	1206	640	1209	638
403.gcc	80	763	844	763	843	769	837	80	760	847	762	845	758	850
429.mcf	80	561	1300	562	1300	563	1300	80	550	1330	550	1330	550	1330
445.gobmk	80	876	958	879	955	879	955	80	834	1010	834	1010	833	1010
456.hammer	80	562	1330	566	1320	560	1330	80	425	1760	424	1760	426	1750
458.sjeng	80	1055	918	1056	917	1055	918	80	987	981	987	981	987	981
462.libquantum	80	347	4780	346	4780	344	4820	80	347	4780	346	4780	344	4820
464.h264ref	80	1344	1320	1361	1300	1371	1290	80	1371	1290	1361	1300	1351	1310
471.omnetpp	80	925	541	934	535	920	544	80	818	611	860	582	839	596
473.astar	80	905	621	905	620	911	616	80	905	621	905	620	911	616
483.xalancbmk	80	535	1030	534	1030	535	1030	80	535	1030	534	1030	535	1030

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.
numactl was used to bind copies to the cores

Operating System Notes

ulimit -s unlimited was used to set the stacksize to unlimited prior to run
Large pages were not enabled for this run

Platform Notes

BIOS Configuration : Data Reuse Optimization = Disabled

General Notes

Binaries compiled on RHEL5.5 with
binutils-2.17.50.0.6-14.el5

Base Compiler Invocation

C benchmarks:

```
icc -m32 -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

C++ benchmarks:

```
icpc -m32 -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/smarterheap -lsmarterheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc -m64
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

403.gcc: icc -m32
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

429.mcf: icc -m32

445.gobmk: icc -m32

462.libquantum: icc -m32
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

464.h264ref: icc -m32

C++ benchmarks (except as noted below):
icpc -m32 -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

471.omnetpp: icpc -m32



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Test sponsor: Cisco Systems

Tested by: Cisco Systems

Test date: Mar-2011

Hardware Availability: May-2011

Software Availability: Jan-2011

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64  
401.bzip2: -DSPEC_CPU_LP64  
456.hmmer: -DSPEC_CPU_LP64  
458.sjeng: -DSPEC_CPU_LP64  
462.libquantum: -DSPEC_CPU_LINUX  
483.xalancbmk: -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
  
401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-opt-prefetch -auto-ilp32 -ansi-alias  
  
403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div  
  
429.mcf: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-ansi-alias -auto-ilp32  
  
445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)  
-ansi-alias -auto-ilp32  
  
456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -unroll12 -auto-ilp32  
  
458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-unroll14 -auto-ilp32  
  
462.libquantum: basepeak = yes  
  
464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-unroll12 -ansi-alias
```

C++ benchmarks:

```
471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs  
-L/smartheap -lsmartheap  
  
473.astar: basepeak = yes
```

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SPECint_rate_base2006 = 1030

Test date: Mar-2011

Hardware Availability: May-2011

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Peak Optimization Flags (Continued)

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=__alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revA.20110303.02.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revA.20110303.02.xml>

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Tested with SPEC CPU2006 v1.1.

Report generated on Wed Jul 23 19:43:32 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 17 May 2011.