SPEC® CINT2006 Result

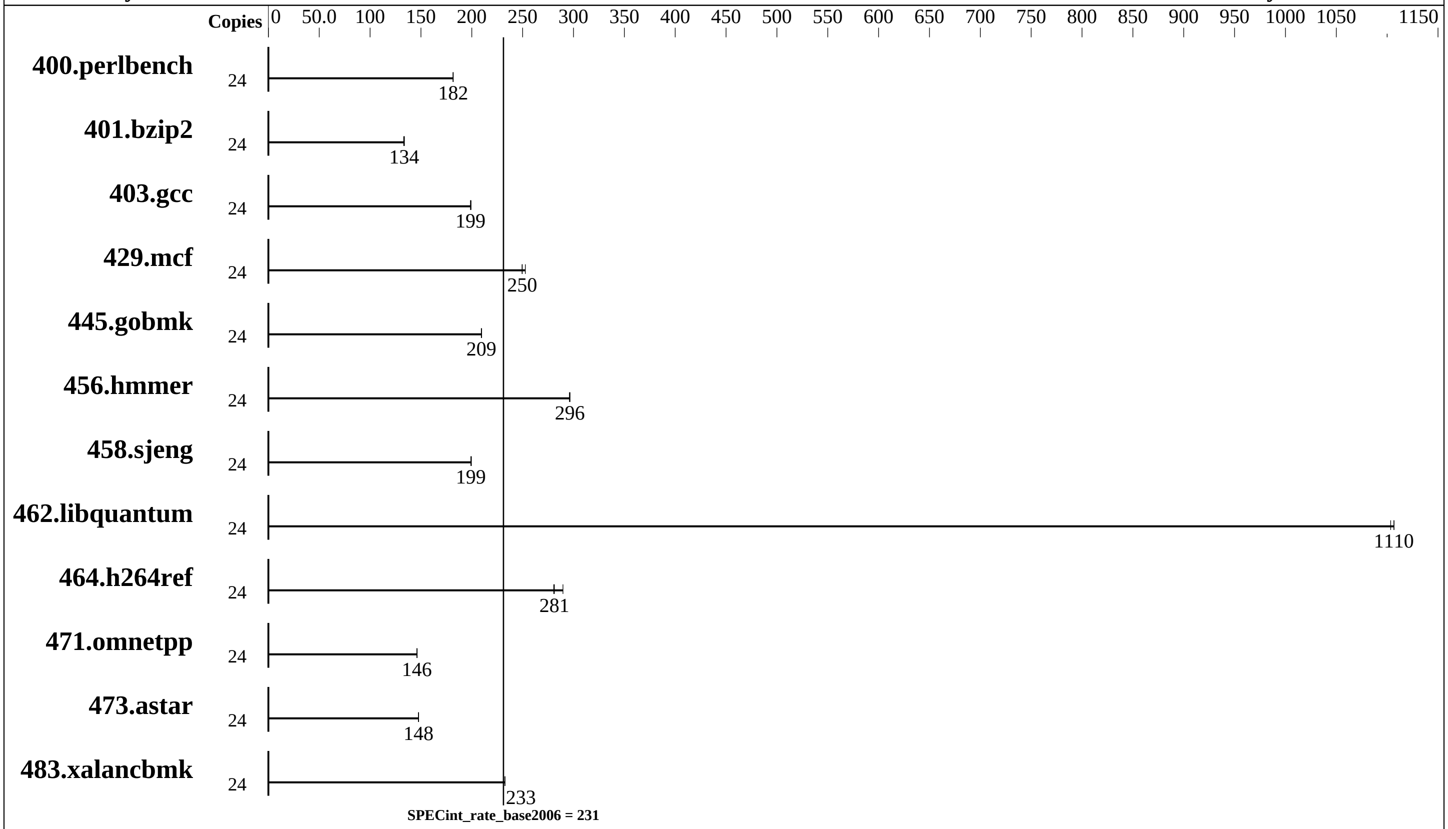
Dell Inc.

PowerEdge R810 (Intel Xeon E7-4807, 1.86 GHz)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 231

CPU2006 license: 55		**Test date:**	Apr-2011
Test sponsor:	Dell Inc.	**Hardware Availability:**	Apr-2011
Tested by:	Dell Inc.	**Software Availability:**	Jan-2011



Hardware

CPU Name:	Intel Xeon E7-4807
CPU Characteristics:	
CPU MHz:	1867
FPU:	Integrated
CPU(s) enabled:	12 cores, 2 chips, 6 cores/chip, 2 threads/core
CPU(s) orderable:	2,4 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:	18 MB I+D on chip per chip
Other Cache:	None
Memory:	256 GB (32 x 8 GB 4Rx8 PC3L-8500R-7, ECC, running at 800 MHz)
Disk Subsystem:	2 x 300 GB 10000 RPM SAS, RAID0
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 11 SP1 (x86_64), Kernel 2.6.32.12-0.7-default
Compiler:	Intel C++ Compiler XE for applications running on IA-32 Version 12.0.1.116 Build 20101116
Auto Parallel:	No
File System:	ext3
System State:	Run level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	Not Applicable
Other Software:	Microquill SmartHeap V9.01

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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	1290	182	**1291**	**182**	1291	182							
401.bzip2	24	1732	134	**1734**	**134**	1741	133							
403.gcc	24	972	199	**972**	**199**	970	199							
429.mcf	24	866	253	**877**	**250**	877	249							
445.gobmk	24	1201	210	**1202**	**209**	1203	209							
456.hmmer	24	757	296	755	297	**755**	**296**							
458.sjeng	24	**1458**	**199**	1455	200	1459	199							
462.libquantum	24	451	1100	449	1110	**449**	**1110**							
464.h264ref	24	1834	290	**1889**	**281**	1893	281							
471.omnetpp	24	1028	146	**1027**	**146**	1026	146							
473.astar	24	1142	148	1141	148	**1141**	**148**							
483.xalancbmk	24	**712**	**233**	712	233	716	231							

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
'mount -t hugetlbfs nodev /mnt/hugepages' was used to enable large pages
echo 10800> /proc/sys/vm/nr_hugepages
export HUGETLB_MORECORE=yes
export LD_PRELOAD=/usr/lib64/libhugetlbfs.so
```

Platform Notes

```
 BIOS Settings:
 Power Management = Maximum Performance (Default = Active Power Controller)
```

General Notes

```
 Binaries were compiled on RHEL5.5
```

Base Compiler Invocation

C benchmarks:
```
    icc   -m32
```

Continued on next page

Base Compiler Invocation (Continued)

C++ benchmarks:
icpc -m32

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

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/smartheap -lsmartheap
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20110524.00.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20110524.00.xml

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

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 17:33:03 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 21 June 2011.