SPEC® CINT2006 Result

Dell Inc.

SPECint®_rate2006 = Not Run

PowerEdge R810 (Intel Xeon E7-8837, 2.66 GHz)

SPECint_rate_base2006 = 368

CPU2006 license: 55
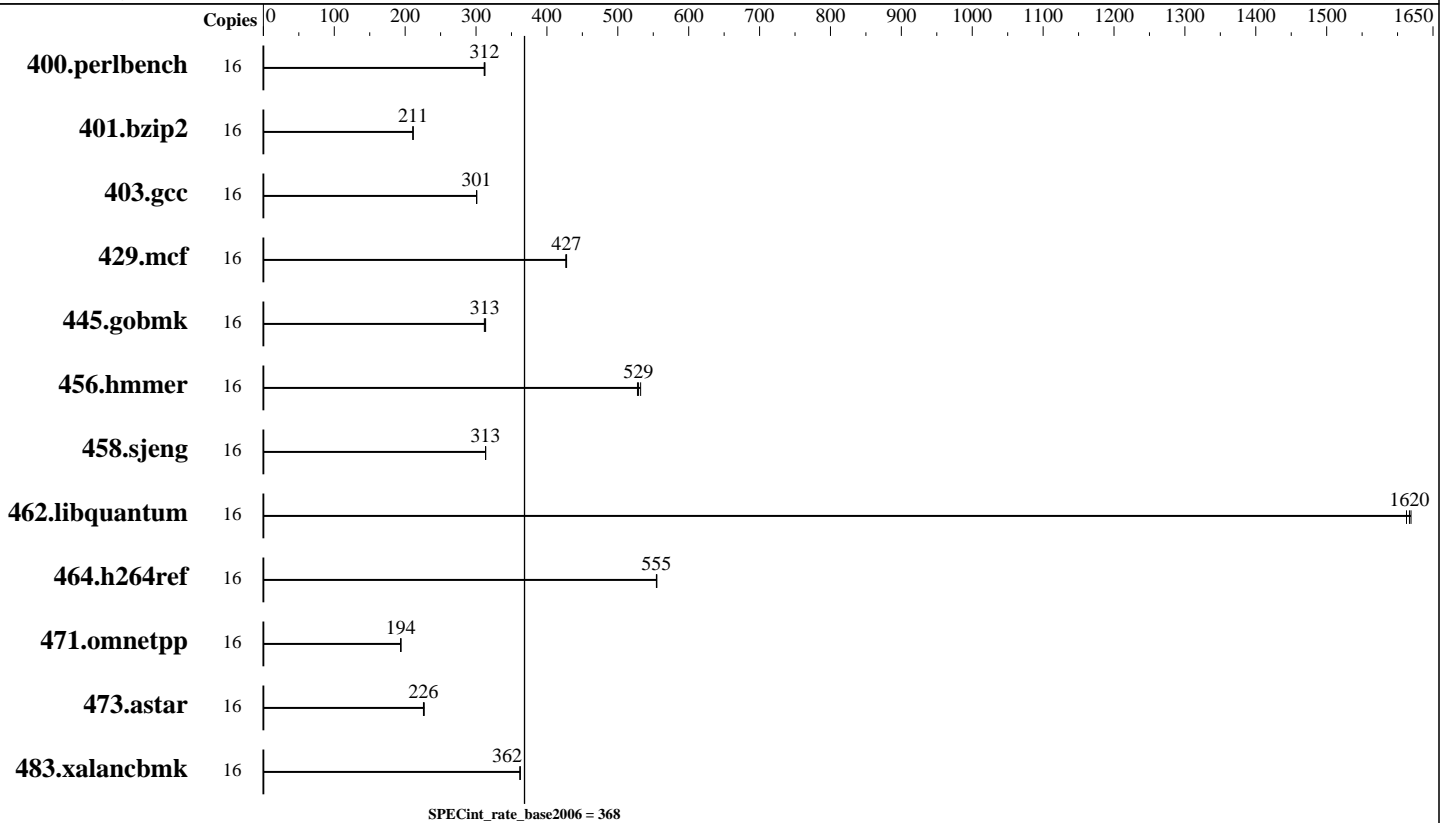**Test sponsor:** Dell Inc.
Tested by: Dell Inc.

Test date: Mar-2011
Hardware Availability: Apr-2011
Software Availability: Jan-2011

Copies	Benchmark	Result
16	400.perlbench	312
16	401.bzip2	211
16	403.gcc	301
16	429.mcf	427
16	445.gobmk	313
16	456.hmmer	529
16	458.sjeng	313
16	462.libquantum	1620
16	464.h264ref	555
16	471.omnetpp	194
16	473.astar	226
16	483.xalancbmk	362

SPECint_rate_base2006 = 368

Hardware

CPU Name:	Intel Xeon E7-8837
CPU Characteristics:	Intel Turbo Boost Technology up to 2.80 GHz
CPU MHz:	2667
FPU:	Integrated
CPU(s) enabled:	16 cores, 2 chips, 8 cores/chip
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:	24 MB I+D on chip per chip
Other Cache:	None
Memory:	256 GB (32 x 8 GB 4Rx8 PC3L-8500R-7, ECC)
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

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R810 (Intel Xeon E7-8837, 2.66 GHz)

SPECint_rate2006 =   Not Run

SPECint_rate_base2006 =   368

CPU2006 license: 55	**Test date:** Mar-2011
Test sponsor: Dell Inc.	**Hardware Availability:** Apr-2011
Tested by: Dell Inc.	**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	16	502	311	500	313	**501**	**312**							
401.bzip2	16	732	211	**731**	**211**	731	211							
403.gcc	16	428	301	428	301	**428**	**301**							
429.mcf	16	342	427	**341**	**427**	341	428							
445.gobmk	16	538	312	**537**	**313**	535	314							
456.hmmer	16	281	532	283	528	**282**	**529**							
458.sjeng	16	**618**	**313**	617	314	618	313							
462.libquantum	16	206	1610	205	1620	**205**	**1620**							
464.h264ref	16	**638**	**555**	638	555	639	554							
471.omnetpp	16	**516**	**194**	516	194	516	194							
473.astar	16	**497**	**226**	495	227	497	226							
483.xalancbmk	16	**305**	**362**	305	362	305	362							

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 7200> /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

SPEC CINT2006 Result

Dell Inc.

PowerEdge R810 (Intel Xeon E7-8837, 2.66 GHz)

SPECint_rate2006 =   Not Run

SPECint_rate_base2006 = 368

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

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

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R810 (Intel Xeon E7-8837, 2.66 GHz)

SPECint_rate2006 = Not Run

SPECint_rate_base2006 = 368

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Mar-2011
Hardware Availability: Apr-2011
Software Availability: Jan-2011

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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 17:32:01 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 21 June 2011.