SPEC® CINT2006 Result

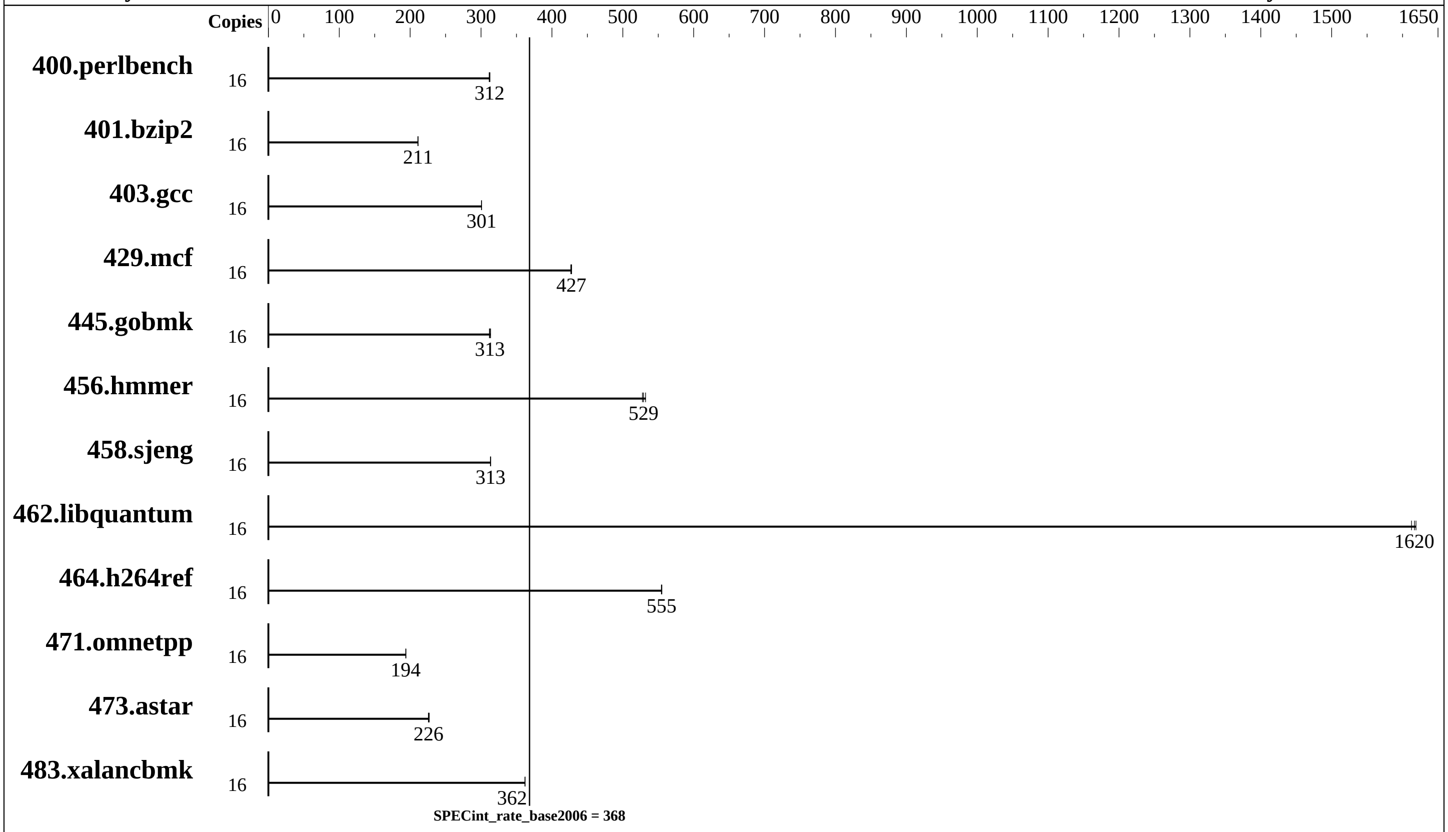
Dell Inc.

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



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

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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	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

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

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