SPEC® CINT2006 Result
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Dell Inc.

PowerEdge 2900 III (Intel Xeon E5430, 2.66 GHz)

$SPECint®2006 =$ 25.2

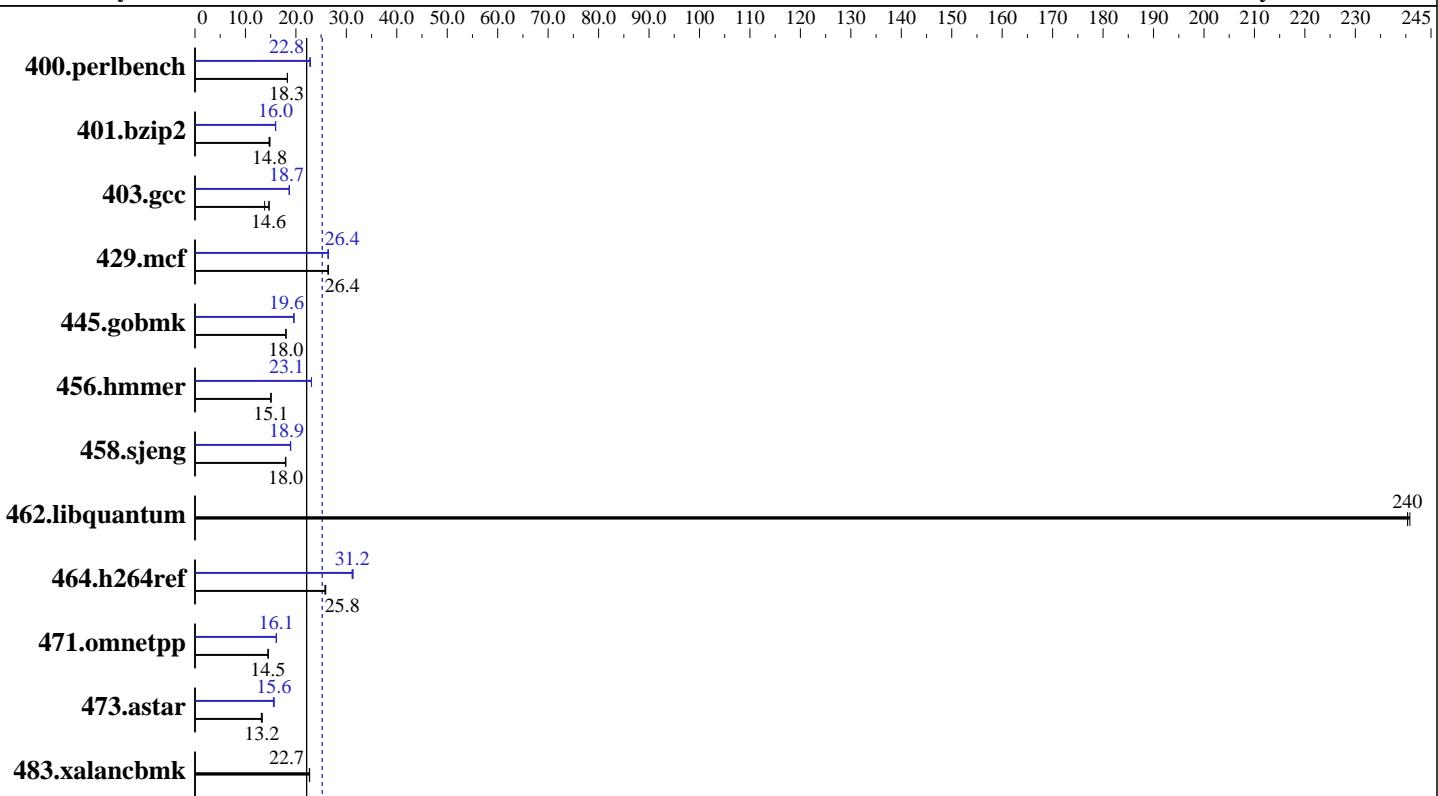$SPECint\_base2006 =$ 22.1

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

Test date: Nov-2008
Hardware Availability: Sep-2008
Software Availability: Nov-2008

| | 0 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 245 |

400.perlbench — 22.8 / 18.3
401.bzip2 — 16.0 / 14.8
403.gcc — 18.7 / 14.6
429.mcf — 26.4 / 26.4
445.gobmk — 19.6 / 18.0
456.hmmer — 23.1 / 15.1
458.sjeng — 18.9 / 18.0
462.libquantum — 240
464.h264ref — 31.2 / 25.8
471.omnetpp — 16.1 / 14.5
473.astar — 15.6 / 13.2
483.xalancbmk — 22.7

SPECint_base2006 = 22.1
SPECint2006 = 25.2

Hardware

CPU Name:	Intel Xeon E5430
CPU Characteristics:	
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8 x 2 GB DDR2-667 FBDIMM)
Disk Subsystem:	2 x 73 GB 15000 RPM SAS
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp
Compiler:	Intel C++ Compiler 11.0 for Linux Build 20080730 Package ID: l_cproc_b_11.0.042
Auto Parallel:	Yes
File System:	ReiserFS
System State:	Run level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	533	18.3	534	18.3	**533**	**18.3**	**428**	**22.8**	428	22.8	429	22.8
401.bzip2	649	14.9	**653**	**14.8**	657	14.7	605	16.0	**604**	**16.0**	604	16.0
403.gcc	547	14.7	**550**	**14.6**	583	13.8	**431**	**18.7**	431	18.7	430	18.7
429.mcf	346	26.3	**345**	**26.4**	345	26.4	**345**	**26.4**	346	26.4	345	26.4
445.gobmk	582	18.0	**582**	**18.0**	582	18.0	**535**	**19.6**	535	19.6	535	19.6
456.hmmer	619	15.1	**620**	**15.1**	620	15.1	**404**	**23.1**	404	23.1	404	23.1
458.sjeng	675	17.9	**674**	**18.0**	672	18.0	637	19.0	640	18.9	**640**	**18.9**
462.libquantum	86.0	241	86.2	240	**86.2**	**240**	86.0	241	86.2	240	**86.2**	**240**
464.h264ref	858	25.8	**857**	**25.8**	854	25.9	**710**	**31.2**	710	31.2	706	31.3
471.omnetpp	431	14.5	431	14.5	**431**	**14.5**	**388**	**16.1**	388	16.1	387	16.1
473.astar	527	13.3	**530**	**13.2**	534	13.2	452	15.5	**449**	**15.6**	448	15.7
483.xalancbmk	304	22.7	**304**	**22.7**	304	22.7	304	22.7	**304**	**22.7**	304	22.7

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

'ulimit -s unlimited' was used to set the stack size to unlimited prior to run

General Notes

```
OMP_NUM_THREADS set to number of processors
KMP_AFFINITY set to "physical,0"
```

Base Compiler Invocation

C benchmarks:
```
icc
```

C++ benchmarks:
```
icpc
```

Base Portability Flags

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

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Base Optimization Flags

C benchmarks:
```
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel
-par-runtime-control -opt-prefetch
```

C++ benchmarks:
```
-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap
```

Base Other Flags

C benchmarks:

      403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc
```

  401.bzip2: `/opt/intel/Compiler/11.0/042/bin/intel64/icc`
      `-L/opt/intel/Compiler/11.0/042/ipp/em64t/lib`
      `-I/opt/intel/Compiler/11.0/042/ipp/em64t/include`

  456.hmmer: `/opt/intel/Compiler/11.0/042/bin/intel64/icc`
      `-L/opt/intel/Compiler/11.0/042/ipp/em64t/lib`
      `-I/opt/intel/Compiler/11.0/042/ipp/em64t/include`

C++ benchmarks:
```
icpc
```

Peak Portability Flags

  400.perlbench: `-DSPEC_CPU_LINUX_IA32`
     401.bzip2: `-DSPEC_CPU_LP64`
    456.hmmer: `-DSPEC_CPU_LP64`
  462.libquantum: `-DSPEC_CPU_LINUX`
  483.xalancbmk: `-DSPEC_CPU_LINUX`

Peak Optimization Flags

C benchmarks:

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Peak Optimization Flags (Continued)

400.perlbench: `-prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3`
`-no-prec-div -static -ansi-alias -opt-prefetch`

401.bzip2: `-prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3`
`-no-prec-div -static -auto-ilp32 -opt-prefetch`
`-ansi-alias`

403.gcc: `-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc`
`-opt-malloc-options=3`

429.mcf: `-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch`

445.gobmk: `-prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -O2 -ipo`
`-no-prec-div -ansi-alias`

456.hmmer: `-xSSE4.1 -ipo -O3 -no-prec-div -static -unroll2`
`-ansi-alias -auto-ilp32`

458.sjeng: `-prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3`
`-no-prec-div -static -unroll4`

462.libquantum: `basepeak = yes`

464.h264ref: `-prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3`
`-no-prec-div -static -unroll2 -ansi-alias`

C++ benchmarks:

471.omnetpp: `-prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3`
`-no-prec-div -ansi-alias -opt-ra-region-strategy=block`
`-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap`

473.astar: `-prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3`
`-no-prec-div -ansi-alias -opt-ra-region-strategy=routine`
`-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap`

483.xalancbmk: `basepeak = yes`

Peak 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-ic11.0-int-linux64-revA.20090713.02.html
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.02.html

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You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090713.02.xml
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.02.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 Tue Jul 22 21:05:09 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 9 December 2008.