



SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 19.1

PowerEdge M600 (Intel Xeon E5405, 2.00 GHz)

SPECint_base2006 = 16.7

CPU2006 license: 55

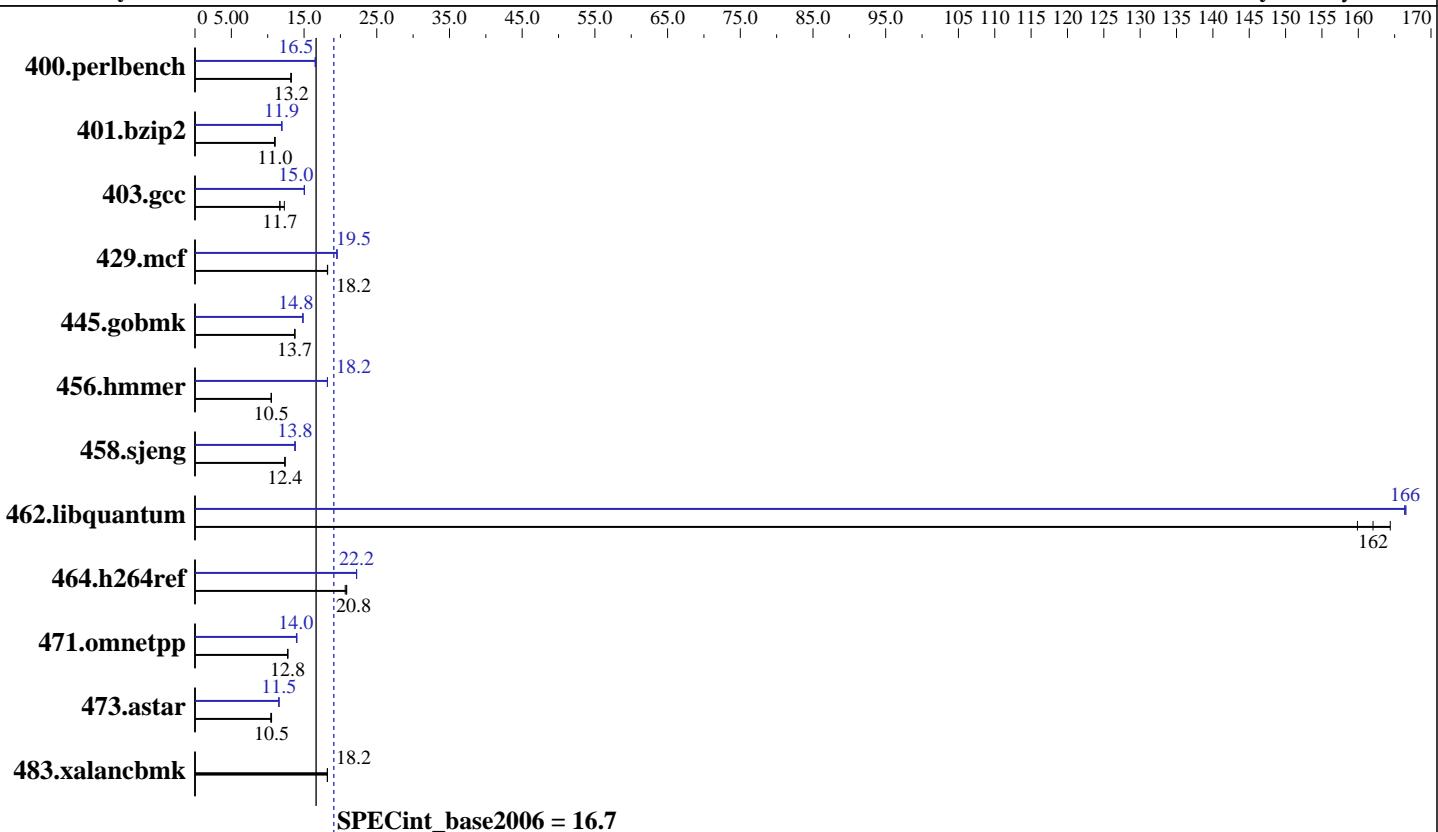
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Aug-2008

Hardware Availability: Jan-2008

Software Availability: May-2008



Hardware		Software	
CPU Name:	Intel Xeon E5405	Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16-60.0.21-smp
CPU Characteristics:		Compiler:	Intel C++ Compiler 10.1 for Linux Build 20080312 Package ID: l_cc_p_10.1.015
CPU MHz:	2000	Auto Parallel:	Yes
FPU:	Integrated	File System:	ReiserFS
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip	System State:	Run level 3 (multi-user)
CPU(s) orderable:	1,2 chips	Base Pointers:	32-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores	Other Software:	Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502
L3 Cache:	None		
Other Cache:	None		
Memory:	16 GB (8 x 2 GB 667 MHz ECC CL5 FB-DIMM)		
Disk Subsystem:	1 x 80 GB 5400 RPM SATA		
Other Hardware:	None		



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	741	13.2	738	13.2	738	13.2	591	16.5	591	16.5	589	16.6
401.bzip2	878	11.0	881	11.0	877	11.0	809	11.9	809	11.9	808	11.9
403.gcc	689	11.7	655	12.3	690	11.7	535	15.1	536	15.0	535	15.0
429.mcf	500	18.2	501	18.2	500	18.2	467	19.5	467	19.5	467	19.5
445.gobmk	764	13.7	764	13.7	764	13.7	707	14.8	707	14.8	707	14.8
456.hmmer	890	10.5	889	10.5	889	10.5	512	18.2	512	18.2	512	18.2
458.sjeng	979	12.4	978	12.4	976	12.4	881	13.7	879	13.8	878	13.8
462.libquantum	126	164	128	162	130	160	125	166	124	167	124	166
464.h264ref	1064	20.8	1060	20.9	1071	20.7	995	22.2	996	22.2	996	22.2
471.omnetpp	490	12.8	490	12.7	490	12.8	446	14.0	448	14.0	447	14.0
473.astar	667	10.5	667	10.5	674	10.4	608	11.6	609	11.5	608	11.5
483.xalancbmk	379	18.2	379	18.2	379	18.2	379	18.2	379	18.2	379	18.2

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

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode
 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:

```
-fast -vec-guard-write -parallel -par-runtime-control
```

C++ benchmarks:

```
-xT -ipo -O3 -no-prec-div -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/cce/10.1.015/bin/icc  
-L/opt/intel/cce/10.1.015/lib  
-I/opt/intel/cce/10.1.015/include
```

```
456.hmmr: /opt/intel/cce/10.1.015/bin/icc  
-L/opt/intel/cce/10.1.015/lib  
-I/opt/intel/cce/10.1.015/include
```

C++ benchmarks:

```
icpc
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
```

```
401.bzip2: -DSPEC_CPU_LP64
```

```
456.hmmr: -DSPEC_CPU_LP64
```

```
462.libquantum: -DSPEC_CPU_LINUX
```

```
483.xalancbmk: -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

Continued on next page



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Peak Optimization Flags (Continued)

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

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

456.hmmer: -fast -unroll12 -ansi-alias -opt-multi-version-aggressive
-auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll14 -O0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-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) -xT -O3 -ipo
-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-ic10.1-int-linux64-revD.20090713.00.html>

<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.07.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-ic10.1-int-linux64-revD.20090713.00.xml>

<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.07.xml>

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