SPEC® CINT2006 Result
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Dell Inc.

PowerEdge 2950 (Intel Xeon 5130, 2.00 GHz)

$SPECint^®_rate2006 = $ 53.1

$SPECint_rate_base2006 = $ 46.7

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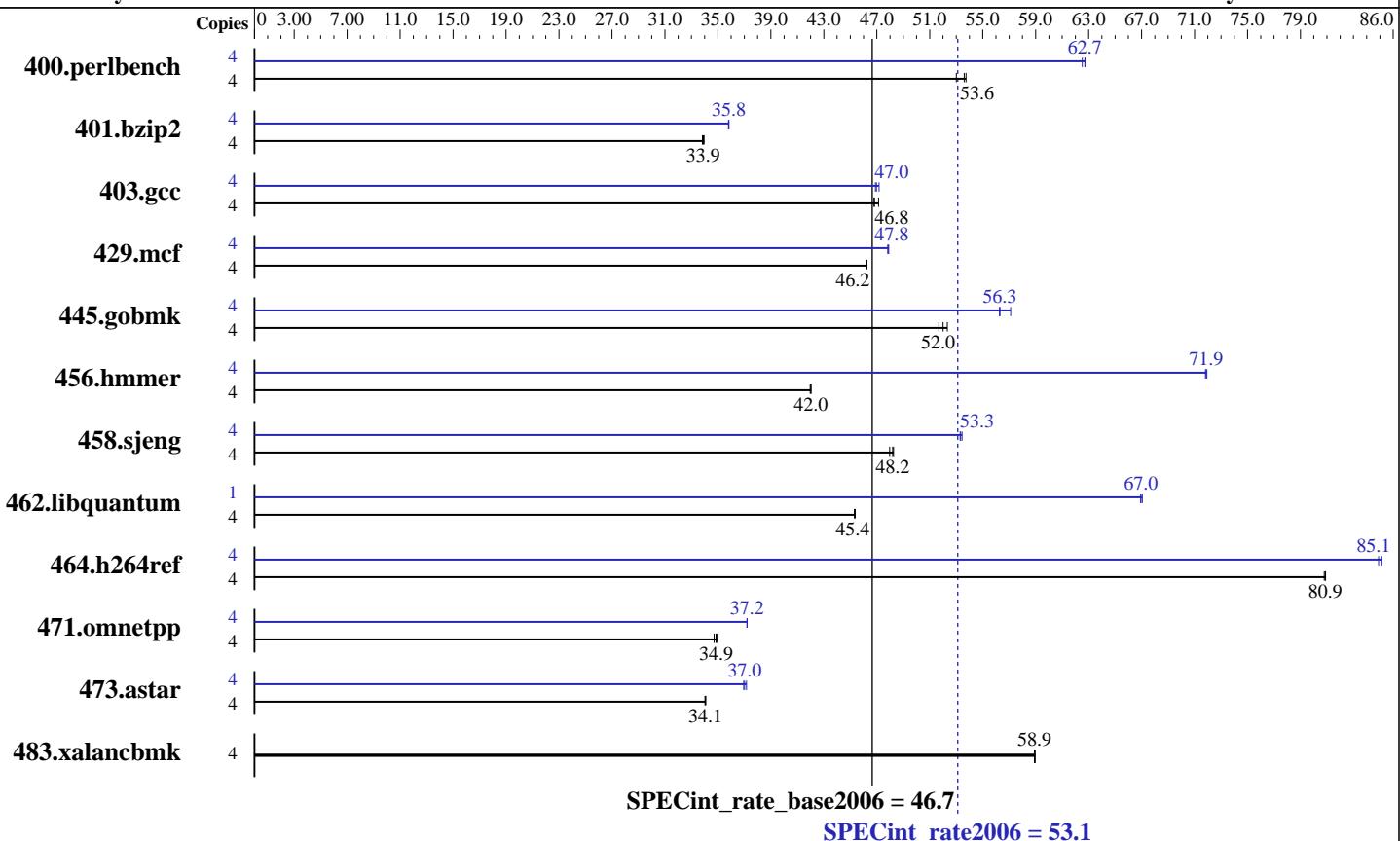**Test sponsor:** Dell Inc.
Tested by: Dell Inc.

Test date: Oct-2007
Hardware Availability: Dec-2006
Software Availability: Nov-2007

Benchmark	Copies	Result
400.perlbench	4	62.7
	4	53.6
401.bzip2	4	35.8
	4	33.9
403.gcc	4	47.0
	4	46.8
429.mcf	4	47.8
	4	46.2
445.gobmk	4	56.3
	4	52.0
456.hmmer	4	71.9
	4	42.0
458.sjeng	4	53.3
	4	48.2
462.libquantum	1	67.0
	4	45.4
464.h264ref	4	85.1
	4	80.9
471.omnetpp	4	37.2
	4	34.9
473.astar	4	37.0
	4	34.1
483.xalancbmk	4	58.9

SPECint_rate_base2006 = 46.7

SPECint_rate2006 = 53.1

Hardware

CPU Name: Intel Xeon 5130
CPU Characteristics: 1333 MHz system bus
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB 667 MHz ECC CL5 FB-DIMM)
Disk Subsystem: 1 x 73 GB SAS 15k RPM
Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ Compiler for Linux32 and Linux64 version 10.1 Build 20070725
Auto Parallel: Yes
File System: ReiserFS
System State: Default
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: SmartHeap library V8.1

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Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	737	53.0	727	53.7	**729**	**53.6**	4	623	62.7	**623**	**62.7**	625	62.5
401.bzip2	4	**1139**	**33.9**	1141	33.8	1137	34.0	4	1077	35.8	**1077**	**35.8**	1078	35.8
403.gcc	4	688	46.8	683	47.1	**688**	**46.8**	4	687	46.9	**685**	**47.0**	683	47.2
429.mcf	4	789	46.2	**789**	**46.2**	789	46.3	4	**762**	**47.8**	762	47.9	763	47.8
445.gobmk	4	802	52.3	812	51.7	**807**	**52.0**	4	735	57.1	**745**	**56.3**	746	56.3
456.hmmer	4	889	42.0	**888**	**42.0**	888	42.0	4	**519**	**71.9**	519	71.9	520	71.8
458.sjeng	4	1009	48.0	**1004**	**48.2**	1003	48.3	4	906	53.4	**908**	**53.3**	908	53.3
462.libquantum	4	1829	45.3	1827	45.4	**1827**	**45.4**	1	309	67.1	**309**	**67.0**	310	66.9
464.h264ref	4	1096	80.8	**1095**	**80.9**	1094	80.9	4	1043	84.9	**1040**	**85.1**	1040	85.1
471.omnetpp	4	**717**	**34.9**	715	34.9	720	34.7	4	**672**	**37.2**	672	37.2	672	37.2
473.astar	4	824	34.1	825	34.0	**824**	**34.1**	4	**758**	**37.0**	756	37.2	760	36.9
483.xalancbmk	4	468	58.9	**468**	**58.9**	468	59.0	4	468	58.9	**468**	**58.9**	468	59.0

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

Compiler Invocation Notes

```
OMP_NUM_THREADS set to number of cores
KMP_STACK_SIZE set to 64M
KMP_AFFINITY set to physical,0
```

Operating System Notes

```
'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
'/usr/bin/taskset' used to bind processes to CPUs
```

Platform Notes

```
BIOS Settings:
Adjacent Cache Line Prefetch = Disabled (default Enabled)
```

Base Compiler Invocation

C benchmarks:
```
icc
```

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

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Base Portability Flags

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

Base Optimization Flags

C benchmarks:

```
-fast -inline-calloc -opt-malloc-options=3
```

C++ benchmarks:

```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

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

```
401.bzip2: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
           -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
           -I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include
```

```
456.hmmer: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
           -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
           -I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/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
```

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Peak Portability Flags (Continued)

483.xalancbmk: `-DSPEC_CPU_LINUX`

Peak Optimization Flags

C benchmarks:

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`

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 -unroll2 -ansi-alias -opt-multi-version-aggressive`

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

462.libquantum: `-fast -unroll4 -Ob0 -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/home/cmplr/usr3/alrahate/cpu2006.1.0/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/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap`

483.xalancbmk: `basepeak = yes`

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Peak Other Flags

C benchmarks:

>   403.gcc: `-Dalloca=_alloca`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090713.02.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090713.02.xml`

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