



SPEC® CINT2006 Result

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Hewlett-Packard Company

ProLiant ML350 G5
(1.60 GHz, Intel Xeon processor E5310)

SPECint_rate2006 = 59.8

SPECint_rate_base2006 = 57.5

CPU2006 license: 3

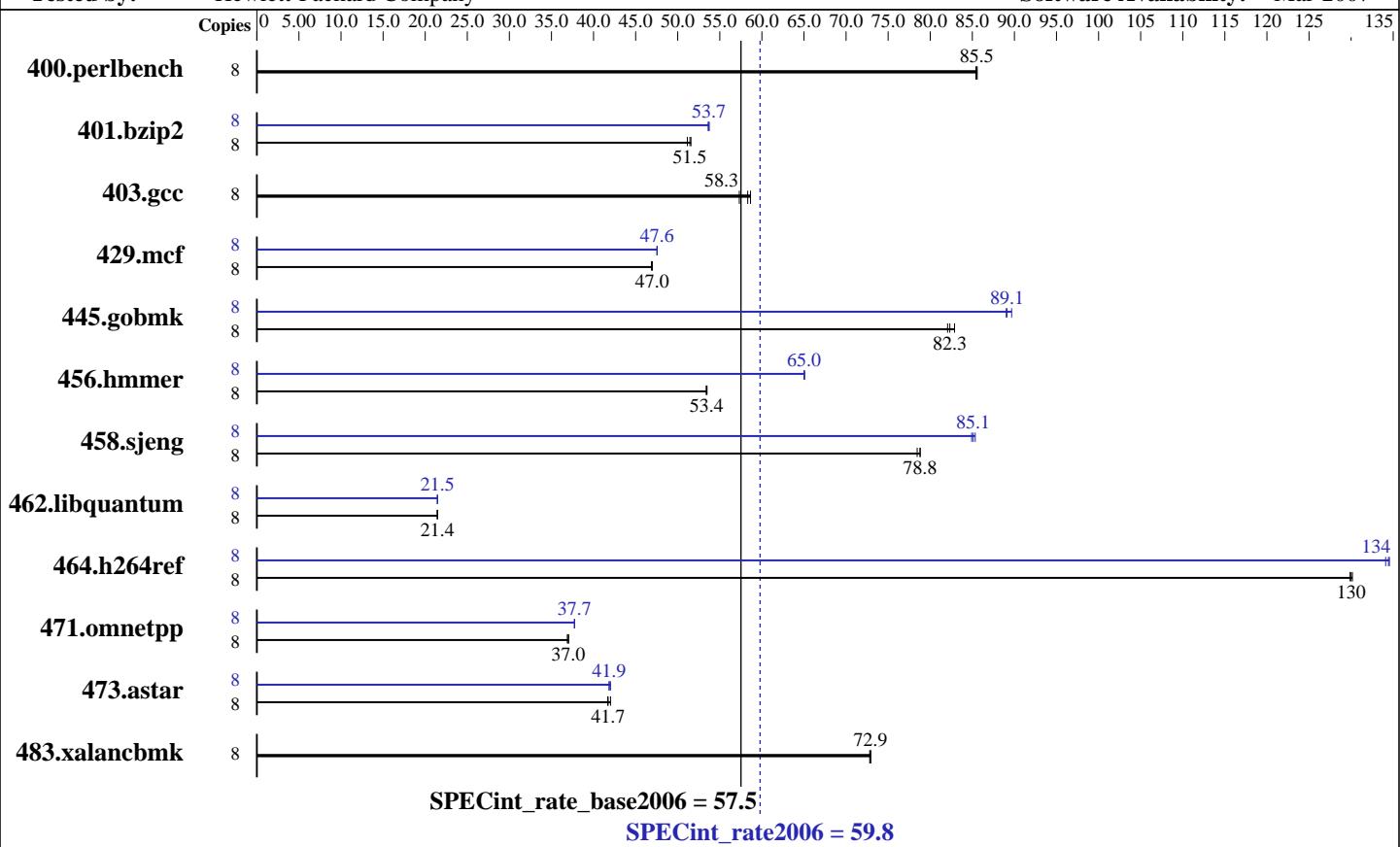
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Jun-2007

Hardware Availability: Jan-2007

Software Availability: Mar-2007



Hardware

CPU Name:	Intel Xeon E5310
CPU Characteristics:	1.60 GHz, 2x4 MB L2 shared, 1066 MHz system bus
CPU MHz:	1600
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:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (4x4 GB PC2-5300F CL5)
Disk Subsystem:	4x36 GB 10 K SAS
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64) kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Build , Package ID: l_cc_c_9.1.049
Auto Parallel:	No
File System:	ext2
System State:	Multi-user run level 3
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library 8.1



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	915	85.4	913	85.6	914	85.5	8	915	85.4	913	85.6	914	85.5
401.bzip2	8	1510	51.1	1497	51.6	1500	51.5	8	1440	53.6	1437	53.7	1437	53.7
403.gcc	8	1098	58.6	1104	58.3	1124	57.3	8	1098	58.6	1104	58.3	1124	57.3
429.mcf	8	1553	47.0	1556	46.9	1553	47.0	8	1534	47.6	1535	47.5	1534	47.6
445.gobmk	8	1012	82.9	1019	82.3	1023	82.1	8	936	89.7	943	89.0	942	89.1
456.hmmer	8	1398	53.4	1396	53.5	1397	53.4	8	1148	65.0	1147	65.1	1148	65.0
458.sjeng	8	1229	78.8	1234	78.4	1228	78.8	8	1140	84.9	1137	85.1	1134	85.3
462.libquantum	8	7718	21.5	7728	21.4	7739	21.4	8	7730	21.4	7723	21.5	7726	21.5
464.h264ref	8	1362	130	1360	130	1363	130	8	1317	134	1316	135	1320	134
471.omnetpp	8	1350	37.0	1352	37.0	1356	36.9	8	1325	37.7	1325	37.7	1325	37.7
473.astar	8	1346	41.7	1347	41.7	1337	42.0	8	1337	42.0	1342	41.8	1341	41.9
483.xalancbmk	8	758	72.8	757	72.9	757	72.9	8	758	72.8	757	72.9	757	72.9

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

Platform Notes

Power Regulator set to Static High Performance Mode in BIOS.

Adjacent Sector Prefetch Disabled in BIOS.

taskset utility used to bind CPU(s) to processes

ulimit -s unlimited set

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_X64

401.bzip2: -DSPEC_CPU_LP64

462.libquantum: -DSPEC_CPU_LINUX

483.xalancbmk: -DSPEC_CPU_LINUX



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Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:

```
-xP -O3 -ipo -no-prec-div  
-L/root/compiler/smartheap/SmartHeap_8.1/lib -lsmartheap
```

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

```
401.bzip2: /opt/intel/cce/9.1.049/bin/icc  
           -I/opt/intel/cce/9.1.049/include  
           -L/opt/intel/cce/9.1.049/lib
```

```
456.hmmer: /opt/intel/cce/9.1.049/bin/icc  
           -I/opt/intel/cce/9.1.049/include  
           -L/opt/intel/cce/9.1.049/lib
```

```
462.libquantum: /opt/intel/cce/9.1.049/bin/icc  
                -I/opt/intel/cce/9.1.049/include  
                -L/opt/intel/cce/9.1.049/lib
```

C++ benchmarks:
icpc

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_X64  
401.bzip2: -DSPEC_CPU_LP64  
462.libquantum: -DSPEC_CPU_LINUX  
483.xalancbmk: -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

400.perlbench: basepeak = yes

401.bzip2: -fast -auto_ilp32

403.gcc: basepeak = yes

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Peak Optimization Flags (Continued)

429.mcf: -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

445.gobmk: Same as 429.mcf

456.hmmer: Same as 429.mcf

458.sjeng: Same as 429.mcf

462.libquantum: Same as 429.mcf

464.h264ref: Same as 429.mcf

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -xP -O3 -ipo
-no-prec-div -fast -auto_ilp32
-L/root/compiler/smartheap/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32
-L/root/compiler/smartheap/SmartHeap_8.1/lib -lsmartheap

483.xalancbmk: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.00.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.00.xml>

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For other inquiries, please contact webmaster@spec.org.

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