



SPEC® CINT2006 Result

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Hewlett-Packard Company

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

SPECint_rate2006 = 33.6

SPECint_rate_base2006 = 32.3

CPU2006 license: 3

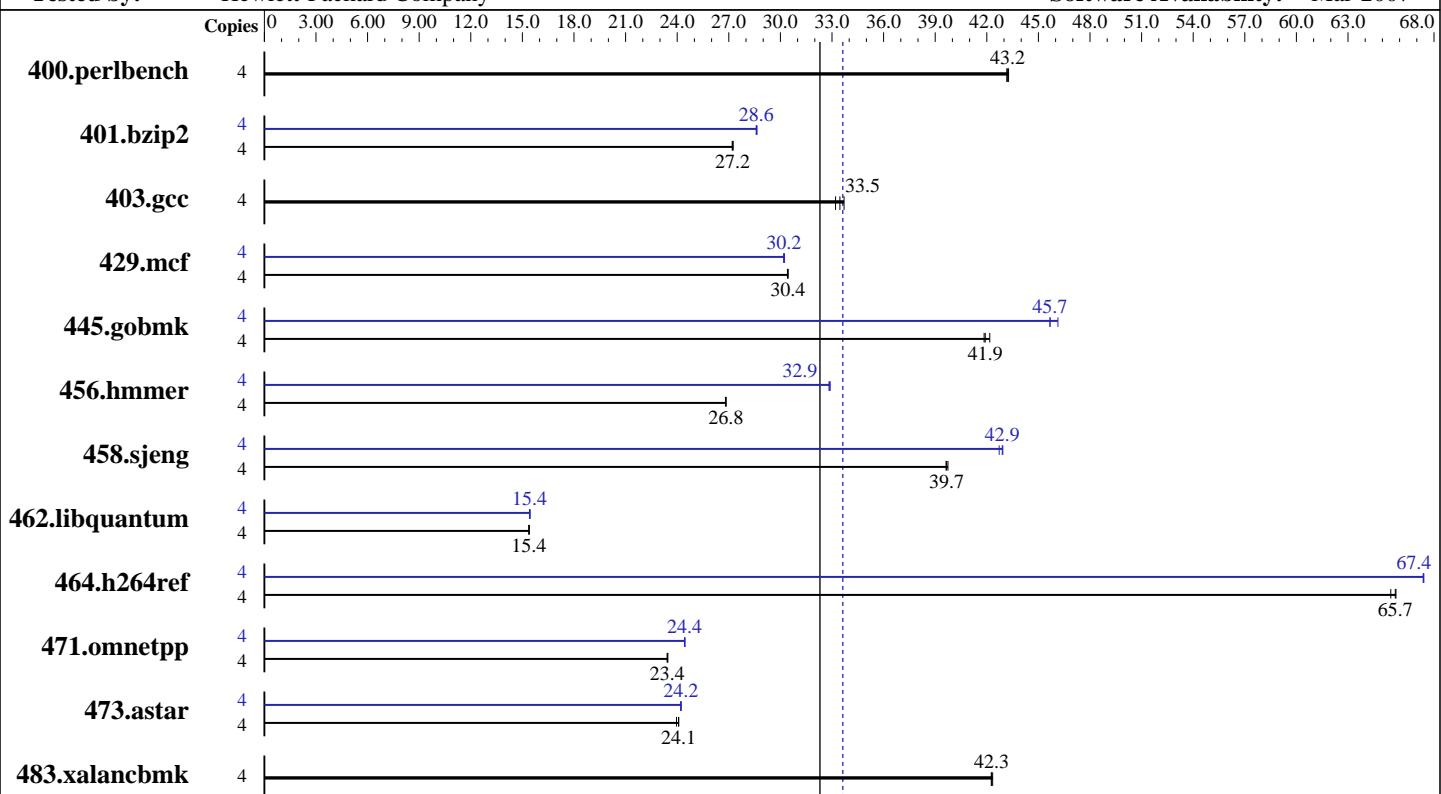
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Jun-2007

Hardware Availability: Jan-2007

Software Availability: Mar-2007



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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: 4 cores, 1 chip, 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)
Compiler: kernel 2.6.16.21-0.8-smp
Auto Parallel: Intel C++ Compiler for Intel EM64T-based
File System: applications, Version 9.1
System State: Build , Package ID: l_cc_c_9.1.049
Base Pointers: No
Peak Pointers: ext2
Other Software: 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	4	903	43.3	904	43.2	905	43.2	4	903	43.3	904	43.2	905	43.2
401.bzip2	4	1418	27.2	1419	27.2	1416	27.3	4	1349	28.6	1348	28.6	1350	28.6
403.gcc	4	955	33.7	970	33.2	962	33.5	4	955	33.7	970	33.2	962	33.5
429.mcf	4	1199	30.4	1198	30.4	1200	30.4	4	1206	30.2	1208	30.2	1208	30.2
445.gobmk	4	1001	41.9	995	42.2	1003	41.8	4	919	45.7	909	46.1	919	45.7
456.hmmer	4	1392	26.8	1390	26.8	1390	26.8	4	1135	32.9	1137	32.8	1136	32.9
458.sjeng	4	1220	39.7	1221	39.6	1218	39.7	4	1128	42.9	1133	42.7	1127	42.9
462.libquantum	4	5391	15.4	5388	15.4	5381	15.4	4	5375	15.4	5363	15.5	5377	15.4
464.h264ref	4	1352	65.5	1346	65.7	1346	65.8	4	1314	67.4	1313	67.4	1314	67.4
471.omnetpp	4	1067	23.4	1067	23.4	1066	23.5	4	1023	24.4	1022	24.5	1024	24.4
473.astar	4	1166	24.1	1172	24.0	1166	24.1	4	1159	24.2	1160	24.2	1160	24.2
483.xalancbmk	4	653	42.3	652	42.3	653	42.3	4	653	42.3	652	42.3	653	42.3

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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