# SPEC® CINT2006 Result

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## Hewlett-Packard Company

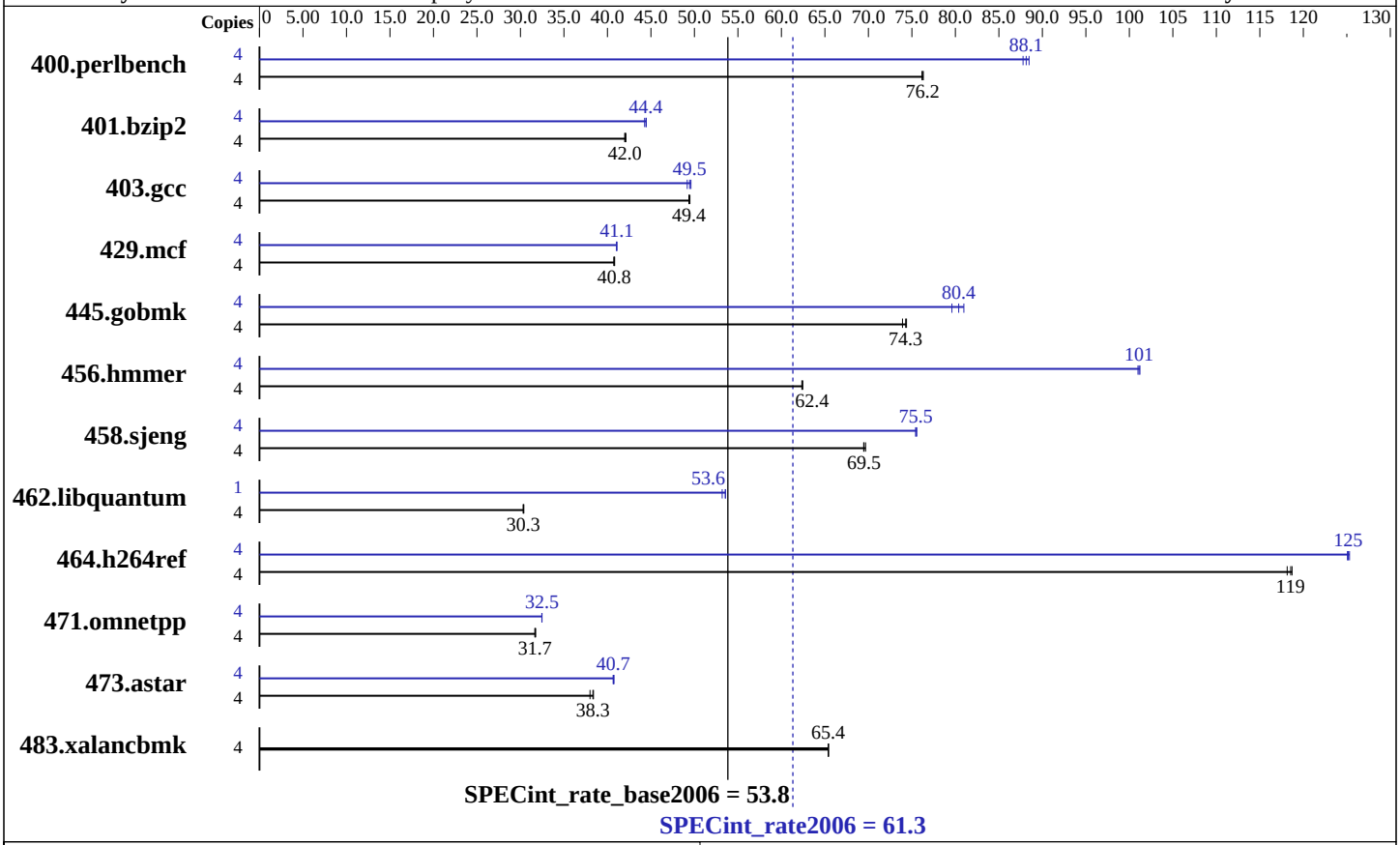
ProLiant DL380 G5
(3.0 GHz, Intel Xeon processor X5365)

SPECint®_rate2006 = 61.3

SPECint_rate_base2006 = 53.8

**CPU2006 license:** 3
**Test sponsor:** Hewlett-Packard Company
**Tested by:** Hewlett-Packard Company

**Test date:** Aug-2007
**Hardware Availability:** Sep-2007
**Software Availability:** Nov-2007




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5365 |
| CPU Characteristics: | 3.0 GHz, 2x4 MB L2 shared, 1333 MHz system bus |
| CPU MHz: | 3000 |
| 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 (8x2 GB PC2-5300F CL5) |
| Disk Subsystem: | 1x72 GB 15 K SAS |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | SuSE Linux Enterprise Server 10 (x86_64) SP1<br>kernel 2.6.16.46-0.12-smp |
| Compiler: | Intel C++ Compiler for Linux32 and Linux64<br>version 10.1<br>Build 20070725 |
| Auto Parallel: | Yes |
| 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<br>binutils-2.17.50 |

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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 | **513** | **76.2** | 512 | 76.3 | 513 | 76.2 | 4 | 445 | 87.8 | **443** | **88.1** | 442 | 88.5 |
| 401.bzip2 | 4 | 919 | 42.0 | **919** | **42.0** | 916 | 42.1 | 4 | **869** | **44.4** | 872 | 44.3 | 868 | 44.5 |
| 403.gcc | 4 | 652 | 49.4 | **652** | **49.4** | 651 | 49.5 | 4 | **651** | **49.5** | 649 | 49.6 | 655 | 49.2 |
| 429.mcf | 4 | **894** | **40.8** | 893 | 40.8 | 896 | 40.7 | 4 | 888 | 41.1 | 889 | 41.0 | **888** | **41.1** |
| 445.gobmk | 4 | 564 | 74.4 | **565** | **74.3** | 568 | 73.9 | 4 | 518 | 81.0 | 527 | 79.6 | **522** | **80.4** |
| 456.hmmer | 4 | 598 | 62.5 | 599 | 62.4 | **598** | **62.4** | 4 | 370 | 101 | **369** | **101** | 369 | 101 |
| 458.sjeng | 4 | 697 | 69.5 | 695 | 69.7 | **696** | **69.5** | 4 | 640 | 75.6 | 642 | 75.4 | **641** | **75.5** |
| 462.libquantum | 4 | 2733 | 30.3 | **2733** | **30.3** | 2727 | 30.4 | 1 | 387 | 53.6 | 390 | 53.2 | **387** | **53.6** |
| 464.h264ref | 4 | 746 | 119 | 749 | 118 | **747** | **119** | 4 | 706 | 125 | **707** | **125** | 708 | 125 |
| 471.omnetpp | 4 | 787 | 31.8 | 790 | 31.7 | **789** | **31.7** | 4 | 770 | 32.5 | 770 | 32.5 | **770** | **32.5** |
| 473.astar | 4 | 731 | 38.4 | **733** | **38.3** | 739 | 38.0 | 4 | **690** | **40.7** | 691 | 40.7 | 689 | 40.8 |
| 483.xalancbmk | 4 | 422 | 65.4 | 422 | 65.4 | **422** | **65.4** | 4 | 422 | 65.4 | 422 | 65.4 | **422** | **65.4** |

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 stacksize to unlimited prior to run
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
KMP_STACKSIZE set to 64M
```

## Platform Notes

```
BIOS configuration:
  Power Regulator set to Static High Performance Mode
  Adjacent Sector Prefetch Disabled
```

## Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

## Base Portability Flags

400.perlbench: `-DSPEC_CPU_LINUX_IA32`

Continued on next page

## Base Portability Flags (Continued)

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
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`

# 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/HP-Intel-ic10.1-linux-flags.20090714.01.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/HP-Intel-ic10.1-linux-flags.20090714.01.xml


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