# SPEC® CINT2006 Result

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## Hewlett-Packard Company

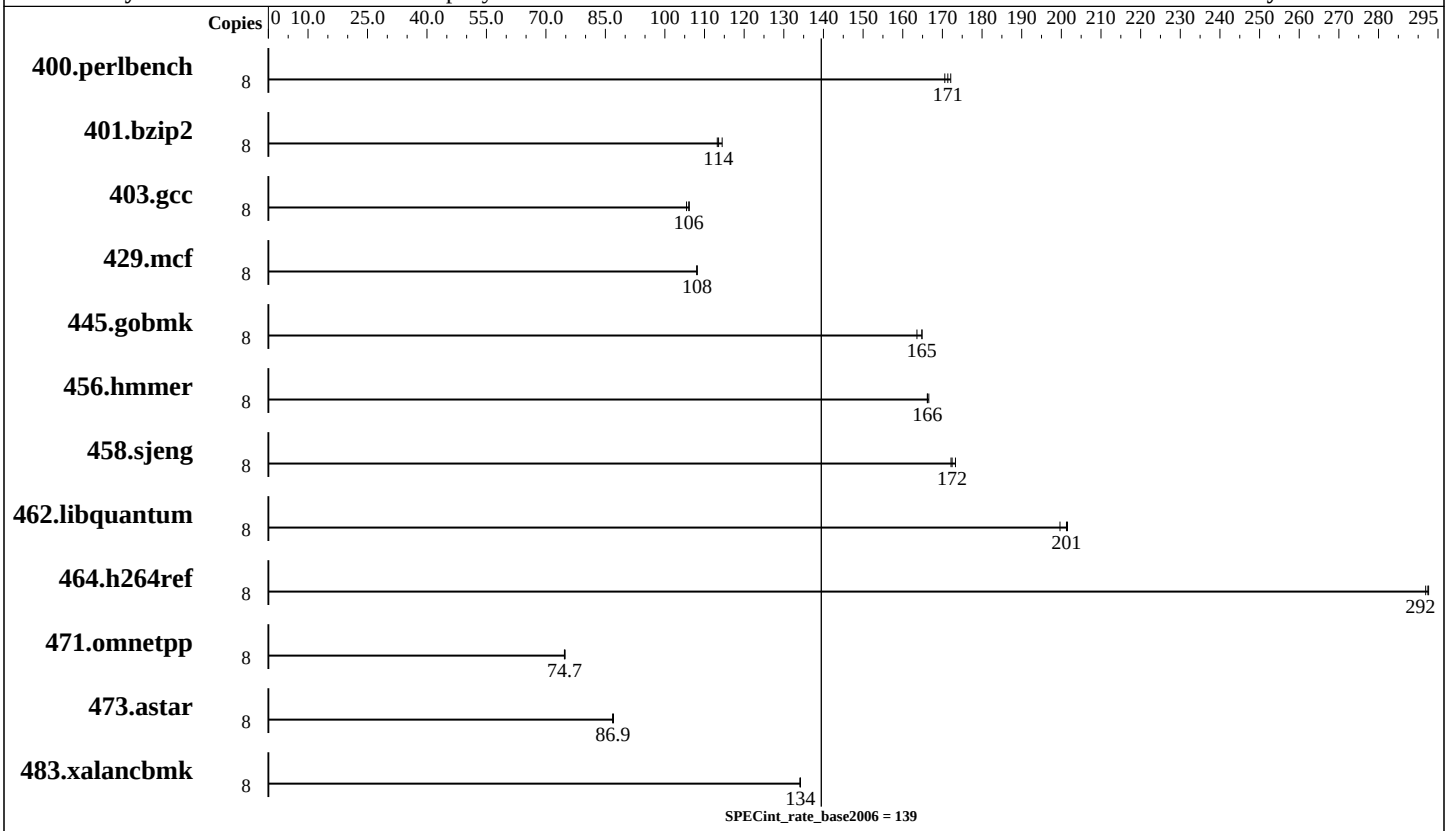
ProLiant DL360 G5
(3.33 GHz, Intel Xeon X5470)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 139

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

**Test date:** Aug-2008
**Hardware Availability:** Sep-2008
**Software Availability:** Nov-2008




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5470 |
| CPU Characteristics: | 3.33 GHz, 2x6 MB L2 shared, 1333 MHz system bus |
| CPU MHz: | 3333 |
| 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: | 12 MB I+D on chip per chip, 6 MB shared / 2 cores |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 16 GB (8x2 GB PC2-5300F CL5) |
| Disk Subsystem: | 1x146 GB 10 K SAS |
| 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 11.0 for Linux Build 20080730 Package ID: l_cproc_b_11.0.042 |
| Auto Parallel: | No |
| File System: | ext2 |
| System State: | Run level 3 (multi-user) |
| Base Pointers: | 32-bit |
| Peak Pointers: | Not Applicable |
| Other Software: | MicroQuill SmartHeap Library 8.1 Binutils 2.18.50.0.7.20080502 |

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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 | **456** | **171** | 458 | 171 | 454 | 172 | | | | | | | |
| 401.bzip2 | 8 | 682 | 113 | 675 | 114 | **680** | **114** | | | | | | | |
| 403.gcc | 8 | 611 | 105 | 607 | 106 | **607** | **106** | | | | | | | |
| 429.mcf | 8 | 675 | 108 | 675 | 108 | **675** | **108** | | | | | | | |
| 445.gobmk | 8 | **509** | **165** | 513 | 164 | 509 | 165 | | | | | | | |
| 456.hmmer | 8 | **449** | **166** | 449 | 166 | 448 | 167 | | | | | | | |
| 458.sjeng | 8 | 562 | 172 | 559 | 173 | **561** | **172** | | | | | | | |
| 462.libquantum | 8 | 830 | 200 | **823** | **201** | 822 | 202 | | | | | | | |
| 464.h264ref | 8 | 605 | 293 | **605** | **292** | 607 | 292 | | | | | | | |
| 471.omnetpp | 8 | 670 | 74.7 | 668 | 74.8 | **669** | **74.7** | | | | | | | |
| 473.astar | 8 | 647 | 86.8 | **646** | **86.9** | 645 | 87.0 | | | | | | | |
| 483.xalancbmk | 8 | 412 | 134 | **411** | **134** | 411 | 134 | | | | | | | |

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

## Submit Notes

```
The config file option 'submit' was used.
 taskset was used to bind processes to cores except
 for 462.libquantum peak
```

## Operating System Notes

```
'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
```

## Platform Notes

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

## 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`

## Base Optimization Flags

C benchmarks:
`-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc -opt-malloc-options=3 -opt-prefetch`

C++ benchmarks:
`-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap`

## Base 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/HP-Intel-Linux-Settings-flags.20090713.00.html
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revD.20090713.00.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/HP-Intel-Linux-Settings-flags.20090713.00.xml
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revD.20090713.00.xml


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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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