SPEC® CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

ProLiant DL380 G5
(3.16 GHz, Intel Xeon X5460)

SPECint®_rate2006 =   73.0
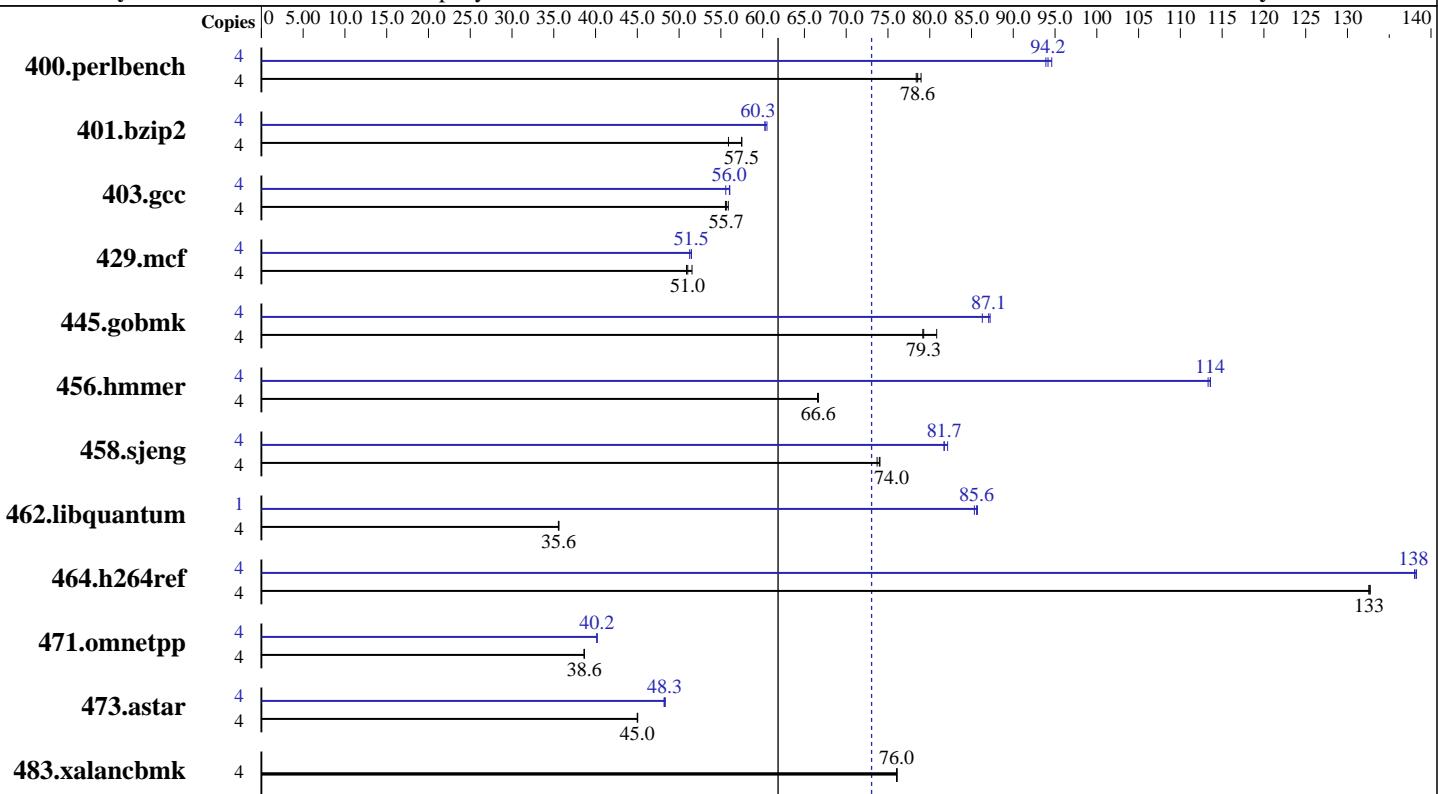
SPECint_rate_base2006 = 61.8

CPU2006 license: 3

Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Jan-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007

Copies 0 5.00 10.0 15.0 20.0 25.0 30.0 35.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100 105 110 115 120 125 130 140

Benchmark	Copies	Peak	Base
400.perlbench	4 / 4	94.2	78.6
401.bzip2	4 / 4	60.3	57.5
403.gcc	4 / 4	56.0	55.7
429.mcf	4 / 4	51.5	51.0
445.gobmk	4 / 4	87.1	79.3
456.hmmer	4 / 4	114	66.6
458.sjeng	4 / 4	81.7	74.0
462.libquantum	1 / 4	85.6	35.6
464.h264ref	4 / 4	138	133
471.omnetpp	4 / 4	40.2	38.6
473.astar	4 / 4	48.3	45.0
483.xalancbmk	4		76.0

SPECint_rate_base2006 = 61.8

SPECint_rate2006 = 73.0

Hardware

CPU Name:	Intel Xeon X5460
CPU Characteristics:	3.16 GHz, 2x6 MB L2 shared, 1333 MHz system bus
CPU MHz:	3166
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:	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:	1x72 GB 15 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 for applications running on IA-32 and Intel 64, Version 10.1 Build 20070913 Package ID: l_cc_p_10.1.008
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 binutils-2.17.50

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

ProLiant DL380 G5
(3.16 GHz, Intel Xeon X5460)

SPECint_rate2006 = 73.0

SPECint_rate_base2006 = 61.8

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

Test date: Jan-2008
Hardware Availability: Jan-2008
Software Availability: Nov-2007

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	495	79.0	**497**	**78.6**	499	78.4	4	413	94.6	**415**	**94.2**	416	93.9
401.bzip2	4	671	57.5	**671**	**57.5**	690	55.9	4	**640**	**60.3**	638	60.5	640	60.3
403.gcc	4	576	55.9	580	55.5	**579**	**55.7**	4	**575**	**56.0**	574	56.1	579	55.6
429.mcf	4	708	51.5	**715**	**51.0**	717	50.9	4	709	51.5	712	51.3	**709**	**51.5**
445.gobmk	4	519	80.8	530	79.2	**529**	**79.3**	4	**482**	**87.1**	486	86.3	481	87.2
456.hmmer	4	560	66.7	561	66.6	**560**	**66.6**	4	329	114	329	113	**329**	**114**
458.sjeng	4	**654**	**74.0**	654	74.0	657	73.7	4	589	82.1	**592**	**81.7**	592	81.7
462.libquantum	4	2331	35.6	**2328**	**35.6**	2328	35.6	1	243	85.3	242	85.7	**242**	**85.6**
464.h264ref	4	**668**	**133**	667	133	668	133	4	**641**	**138**	640	138	641	138
471.omnetpp	4	647	38.7	**647**	**38.6**	647	38.6	4	622	40.2	622	40.2	**622**	**40.2**
473.astar	4	623	45.0	624	45.0	**624**	**45.0**	4	581	48.3	583	48.2	**582**	**48.3**
483.xalancbmk	4	363	76.1	**363**	**76.0**	363	76.0	4	363	76.1	**363**	**76.0**	363	76.0

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
   Hardware Prefetcher Disabled
```

Base Compiler Invocation

C benchmarks:
```
icc
```

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

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

ProLiant DL380 G5
(3.16 GHz, Intel Xeon X5460)

SPECint_rate2006 =   73.0

SPECint_rate_base2006 = 61.8

CPU2006 license: 3

Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Jan-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007

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/compiler/SmartHeap_8.1/lib -lsmartheap
```

Base Other Flags

C benchmarks:

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

Peak Compiler Invocation

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

```
    401.bzip2: /opt/intel/cce/10.1.008/bin/icc
            -L/opt/intel/cce/10.1.008/lib
            -I/opt/intel/cce/10.1.008/include
```

```
    456.hmmer: /opt/intel/cce/10.1.008/bin/icc
            -L/opt/intel/cce/10.1.008/lib
            -I/opt/intel/cce/10.1.008/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
```

SPEC CINT2006 Result

Hewlett-Packard Company

ProLiant DL380 G5
(3.16 GHz, Intel Xeon X5460)

SPECint_rate2006 =   73.0

SPECint_rate_base2006 = 61.8

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

Test date: Jan-2008
Hardware Availability: Jan-2008
Software Availability: Nov-2007

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/compiler/SmartHeap_8.1/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/compiler/SmartHeap_8.1/lib -lsmartheap`

   483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

Continued on next page

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

ProLiant DL380 G5
(3.16 GHz, Intel Xeon X5460)

SPECint_rate2006 =   73.0

SPECint_rate_base2006 = 61.8

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

Test date: Jan-2008
Hardware Availability: Jan-2008
Software Availability: Nov-2007

Peak Other Flags (Continued)

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-int-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-int-flags.20090714.01.xml

SPEC and SPECint are registered trademarks of the Standard Performance
Evaluation Corporation. All other brand and product names appearing in
this result are trademarks or registered trademarks of their respective
holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 16:02:23 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 19 February 2008.