SPEC® CINT2006 Result
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Hewlett-Packard Company

ProLiant BL480c
(3.33 GHz, Intel Xeon processor X5260)

SPECint®_rate2006 = 82.2
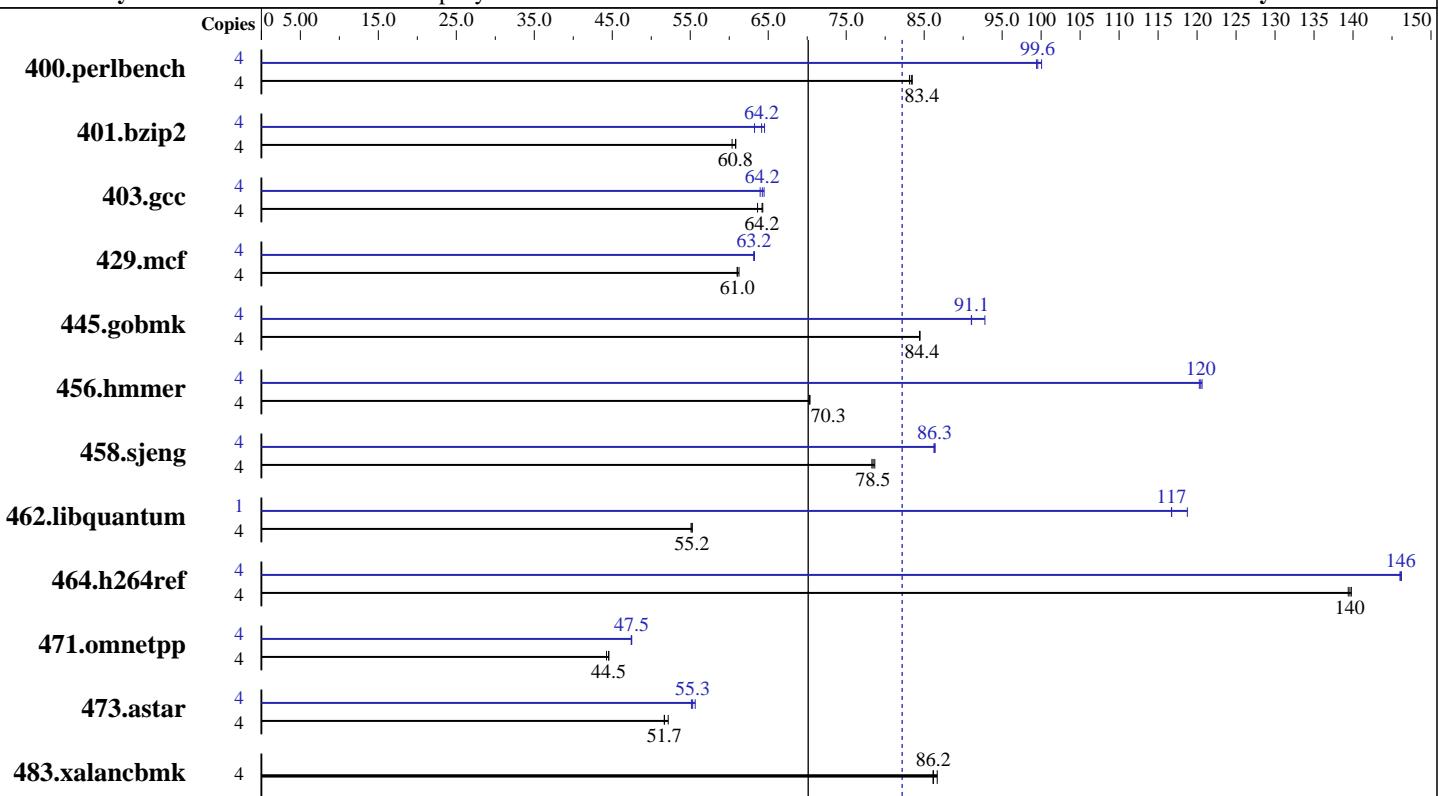
SPECint_rate_base2006 = 70.1

CPU2006 license: 3

Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007

Benchmark	Copies	Result
400.perlbench	4	99.6
	4	83.4
401.bzip2	4	64.2
	4	60.8
403.gcc	4	64.2
	4	64.2
429.mcf	4	63.2
	4	61.0
445.gobmk	4	91.1
	4	84.4
456.hmmer	4	120
	4	70.3
458.sjeng	4	86.3
	4	78.5
462.libquantum	1	117
	4	55.2
464.h264ref	4	146
	4	140
471.omnetpp	4	47.5
	4	44.5
473.astar	4	55.3
	4	51.7
483.xalancbmk	4	86.2

SPECint_rate_base2006 = 70.1

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Hardware

CPU Name:	Intel Xeon X5260
CPU Characteristics:	3.33 GHz, 6 MB L2 shared, 1333 MHz system bus
CPU MHz:	3333
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	6 MB I+D on chip per chip
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

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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	**469**	**83.4**	468	83.5	470	83.1	4	391	100	393	99.4	**392**	**99.6**
401.bzip2	4	639	60.4	634	60.8	**635**	**60.8**	4	**602**	**64.2**	598	64.5	610	63.2
403.gcc	4	506	63.6	501	64.3	**501**	**64.2**	4	503	64.0	**501**	**64.2**	499	64.5
429.mcf	4	598	61.0	**598**	**61.0**	596	61.3	4	**577**	**63.2**	578	63.1	577	63.2
445.gobmk	4	497	84.5	497	84.4	**497**	**84.4**	4	**461**	**91.1**	452	92.8	461	91.0
456.hmmer	4	**531**	**70.3**	531	70.3	530	70.4	4	309	121	310	120	**310**	**120**
458.sjeng	4	618	78.3	**617**	**78.5**	615	78.7	4	560	86.4	**561**	**86.3**	561	86.3
462.libquantum	4	1500	55.3	**1501**	**55.2**	1504	55.1	1	**177**	**117**	178	117	174	119
464.h264ref	4	635	139	**634**	**140**	633	140	4	**606**	**146**	605	146	606	146
471.omnetpp	4	**561**	**44.5**	561	44.6	565	44.3	4	527	47.4	526	47.5	**526**	**47.5**
473.astar	4	543	51.7	**543**	**51.7**	538	52.2	4	**508**	**55.3**	505	55.6	509	55.2
483.xalancbmk	4	318	86.7	320	86.1	**320**	**86.2**	4	318	86.7	320	86.1	**320**	**86.2**

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
```

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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/cpu2006.1.0/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
483.xalancbmk: -DSPEC_CPU_LINUX
```

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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/cpu2006.1.0/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/cpu2006.1.0/SmartHeap_8.1/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-int-flags.20090714.00.html

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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.20090714.00.xml

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