SPEC® CINT2006 Result
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Hewlett-Packard Company

ProLiant DL380 G5
(3.5 GHz, Intel Xeon X5270)

SPECint®2006 =   30.1

SPECint_base2006 =   26.4

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

Benchmark results:

Benchmark	Peak	Base
400.perlbench	29.3	23.8
401.bzip2	20.8	19.3
403.gcc	22.0	16.9
429.mcf	29.6	29.6
445.gobmk	25.4	23.2
456.hmmer	30.3	19.8
458.sjeng	24.1	23.0
462.libquantum		183
464.h264ref	41.1	34.2
471.omnetpp	17.6	16.0
473.astar	19.9	17.0
483.xalancbmk		28.4

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SPECint2006 = 30.1

Hardware

CPU Name: Intel Xeon X5270
CPU Characteristics: 3.5 GHz, 6 MB L2 shared, 1333 MHz system bus
CPU MHz: 3500
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: 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: Yes
File System: ext3
System State: Run level 3 (multi-user)
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: MicroQuill SmartHeap Library 8.1
Binutils 2.18.50.0.7.20080502

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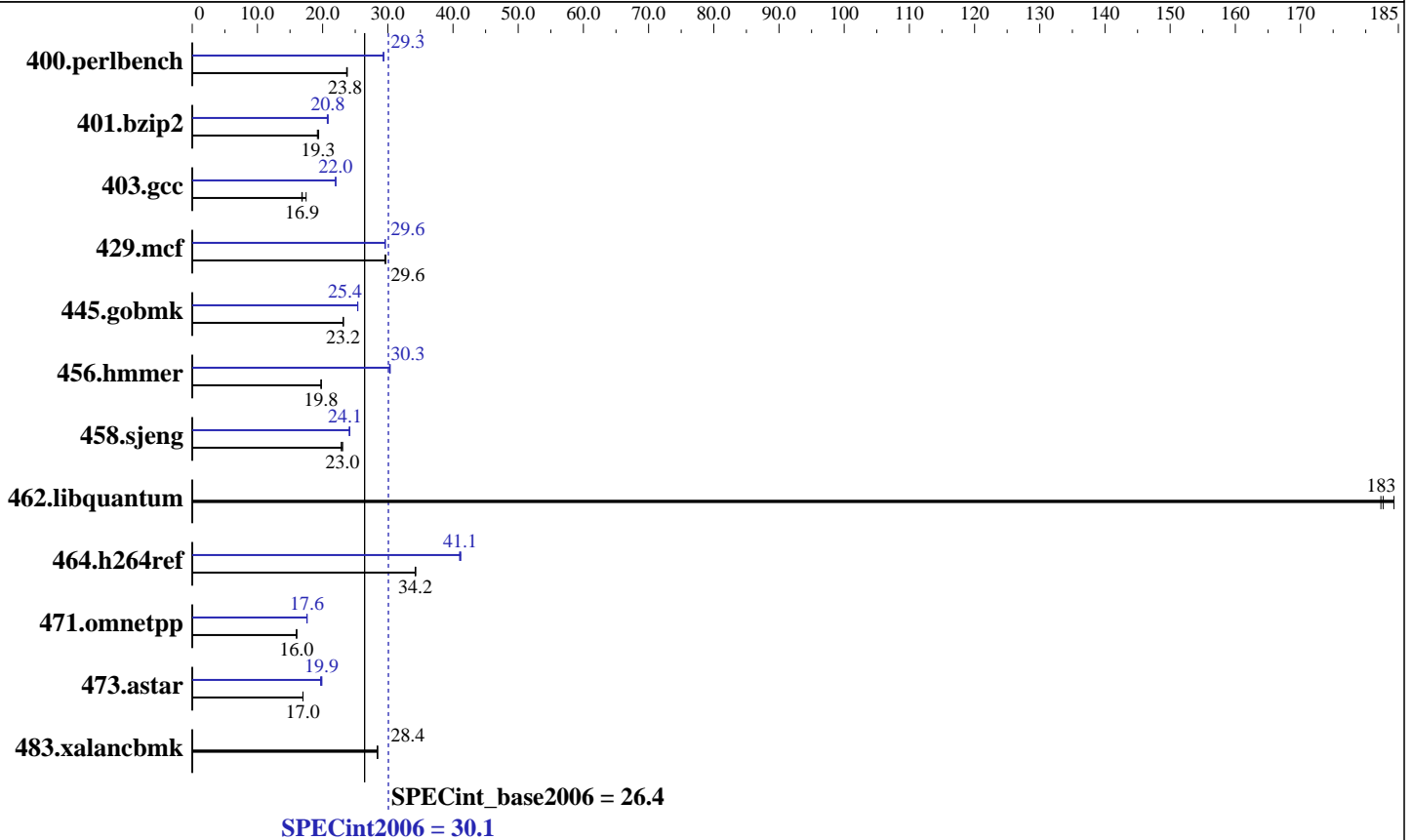
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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	411	23.8	**411**	**23.8**	412	23.7	333	29.4	333	29.3	**333**	**29.3**
401.bzip2	503	19.2	498	19.4	**500**	**19.3**	**464**	**20.8**	463	20.8	466	20.7
403.gcc	479	16.8	461	17.5	**477**	**16.9**	366	22.0	366	22.0	**366**	**22.0**
429.mcf	308	29.6	**308**	**29.6**	307	29.7	308	29.6	308	29.6	**308**	**29.6**
445.gobmk	**453**	**23.2**	453	23.2	453	23.2	413	25.4	**413**	**25.4**	413	25.4
456.hmmer	472	19.8	**472**	**19.8**	472	19.8	308	30.3	**308**	**30.3**	307	30.3
458.sjeng	525	23.0	**525**	**23.0**	530	22.8	**501**	**24.1**	501	24.2	502	24.1
462.libquantum	**113**	**183**	112	184	114	182	**113**	**183**	112	184	114	182
464.h264ref	647	34.2	646	34.3	**647**	**34.2**	**539**	**41.1**	540	41.0	537	41.2
471.omnetpp	391	16.0	390	16.0	**390**	**16.0**	355	17.6	355	17.6	**355**	**17.6**
473.astar	**413**	**17.0**	413	17.0	414	17.0	357	19.7	**354**	**19.9**	353	19.9
483.xalancbmk	**243**	**28.4**	243	28.4	243	28.4	**243**	**28.4**	243	28.4	243	28.4

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
```

Platform Notes

```
BIOS configuration:
  Power Regulator set to Static High Performance Mode
```

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
```

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Base Optimization Flags

C benchmarks:
```
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel
-par-runtime-control -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
```

Peak Compiler Invocation

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

```
401.bzip2: /opt/intel/Compiler/11.0/042/bin/intel64/icc
           -L/opt/intel/Compiler/11.0/042/ipp/em64t/lib
           -I/opt/intel/Compiler/11.0/042/ipp/em64t/include
```

```
456.hmmer: /opt/intel/Compiler/11.0/042/bin/intel64/icc
           -L/opt/intel/Compiler/11.0/042/ipp/em64t/lib
           -I/opt/intel/Compiler/11.0/042/ipp/em64t/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:

Continued on next page

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Peak Optimization Flags (Continued)

```
   400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
                  -no-prec-div -static -ansi-alias -opt-prefetch

      401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
                 -no-prec-div -static -auto-ilp32 -opt-prefetch
                 -ansi-alias

        403.gcc: -xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
                 -opt-malloc-options=3

        429.mcf: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

      445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -O2 -ipo
                 -no-prec-div -ansi-alias

      456.hmmer: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll2
                 -ansi-alias -auto-ilp32

      458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
                 -no-prec-div -static -unroll4

  462.libquantum: basepeak = yes

     464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
                  -no-prec-div -static -unroll2 -ansi-alias

C++ benchmarks:

     471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
                  -no-prec-div -ansi-alias -opt-ra-region-strategy=block
                  -Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

       473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
                  -no-prec-div -ansi-alias -opt-ra-region-strategy=routine
                  -Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

   483.xalancbmk: basepeak = yes
```

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

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You can also download the XML flags sources by saving the following links:

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

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

Tested with SPEC CPU2006 v1.1.
Report generated on Tue Jul 22 19:35:15 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 16 September 2008.