SPEC® CINT2006 Result
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Hewlett-Packard Company

ProLiant DL120 G5
(2.83 GHz, Intel Xeon X3360)

SPECint®_rate2006 = 74.6
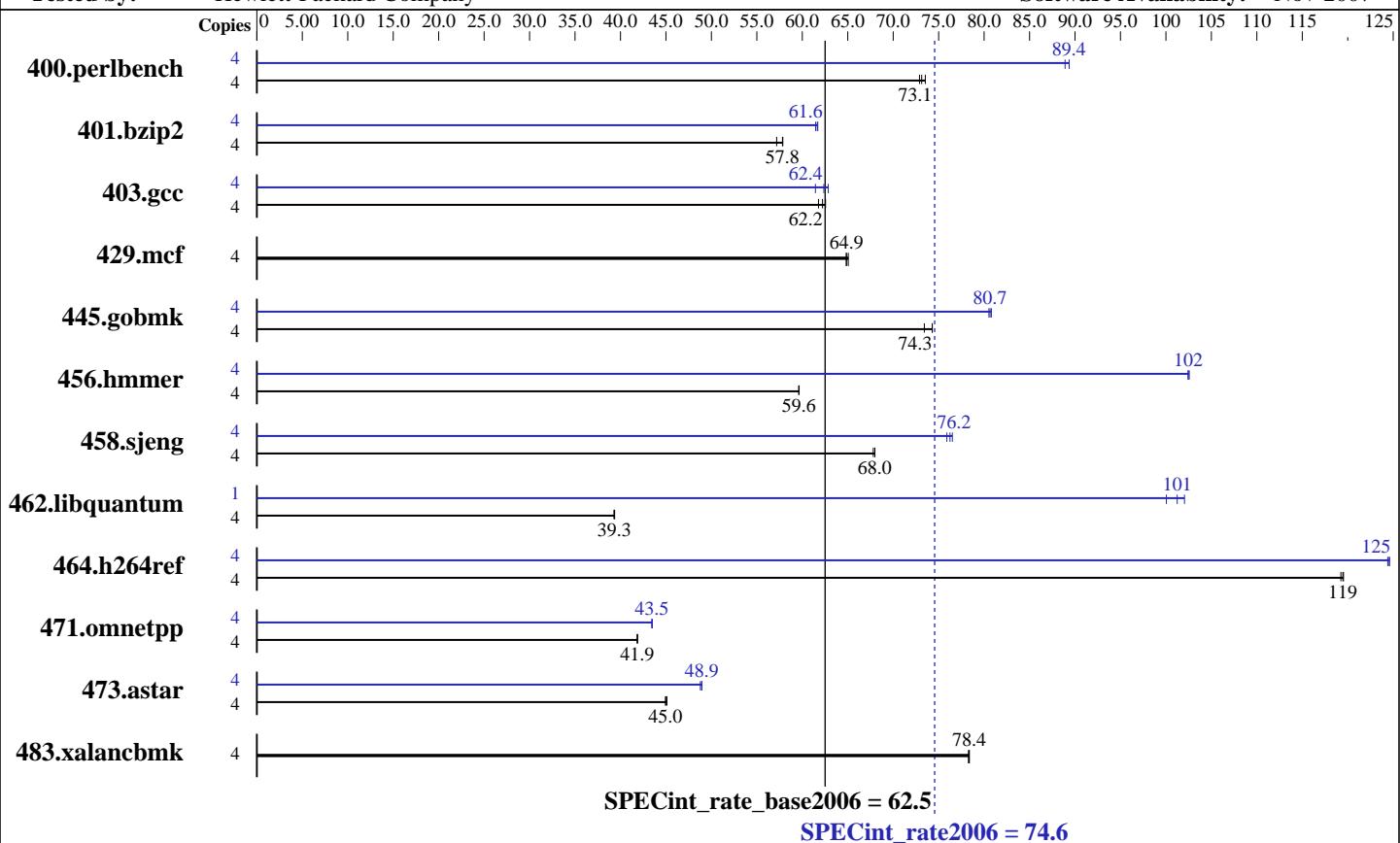
SPECint_rate_base2006 = 62.5

CPU2006 license: 3

Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Jun-2008

Hardware Availability: Sep-2008

Software Availability: Nov-2007

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Benchmark	Copies	Value
400.perlbench	4 / 4	89.4 / 73.1
401.bzip2	4 / 4	61.6 / 57.8
403.gcc	4 / 4	62.4 / 62.2
429.mcf	4	64.9
445.gobmk	4 / 4	80.7 / 74.3
456.hmmer	4 / 4	102 / 59.6
458.sjeng	4 / 4	76.2 / 68.0
462.libquantum	1 / 4	101 / 39.3
464.h264ref	4 / 4	125 / 119
471.omnetpp	4 / 4	43.5 / 41.9
473.astar	4 / 4	48.9 / 45.0
483.xalancbmk	4	78.4

Hardware

CPU Name:	Intel Xeon X3360
CPU Characteristics:	2.83 GHz, 2x6 MB L2 shared, 1333 MHz system bus
CPU MHz:	2833
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
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:	8 GB (4x2 GB PC2-6400E CL6)
Disk Subsystem:	1x160 GB 7.2 K SATA
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 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008
Auto Parallel:	Yes
File System:	ext2
System State:	Run level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library 8.1 binutils-2.17.50

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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	531	73.5	536	72.9	**534**	**73.1**	4	**437**	**89.4**	437	89.4	440	88.9
401.bzip2	4	667	57.9	675	57.2	**668**	**57.8**	4	**626**	**61.6**	628	61.5	626	61.7
403.gcc	4	**517**	**62.2**	515	62.6	521	61.8	4	**516**	**62.4**	512	62.9	524	61.4
429.mcf	4	561	65.1	**562**	**64.9**	563	64.8	4	561	65.1	**562**	**64.9**	563	64.8
445.gobmk	4	571	73.4	**565**	**74.3**	565	74.3	4	**520**	**80.7**	521	80.5	519	80.8
456.hmmer	4	626	59.7	626	59.6	**626**	**59.6**	4	364	103	364	102	**364**	**102**
458.sjeng	4	**712**	**68.0**	714	67.8	712	68.0	4	638	75.9	633	76.5	**635**	**76.2**
462.libquantum	4	2106	39.4	**2108**	**39.3**	2109	39.3	1	203	102	**205**	**101**	207	100
464.h264ref	4	**741**	**119**	742	119	741	120	4	712	124	710	125	**711**	**125**
471.omnetpp	4	597	41.9	597	41.9	**597**	**41.9**	4	**575**	**43.5**	575	43.5	575	43.5
473.astar	4	623	45.1	**624**	**45.0**	625	45.0	4	574	49.0	**574**	**48.9**	576	48.8
483.xalancbmk	4	**352**	**78.4**	353	78.3	352	78.4	4	**352**	**78.4**	353	78.3	352	78.4

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:
  Adjacent Cache Line Prefetch Disabled
```

Base Compiler Invocation

C benchmarks:
```
icc
```

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

Base Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
```

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Base Portability Flags (Continued)

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/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: `basepeak = yes`

> 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/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/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.20090713.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.20090713.xml

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For other inquiries, please contact webmaster@spec.org.

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