SPEC® CINT2006 Result

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Hewlett-Packard Company

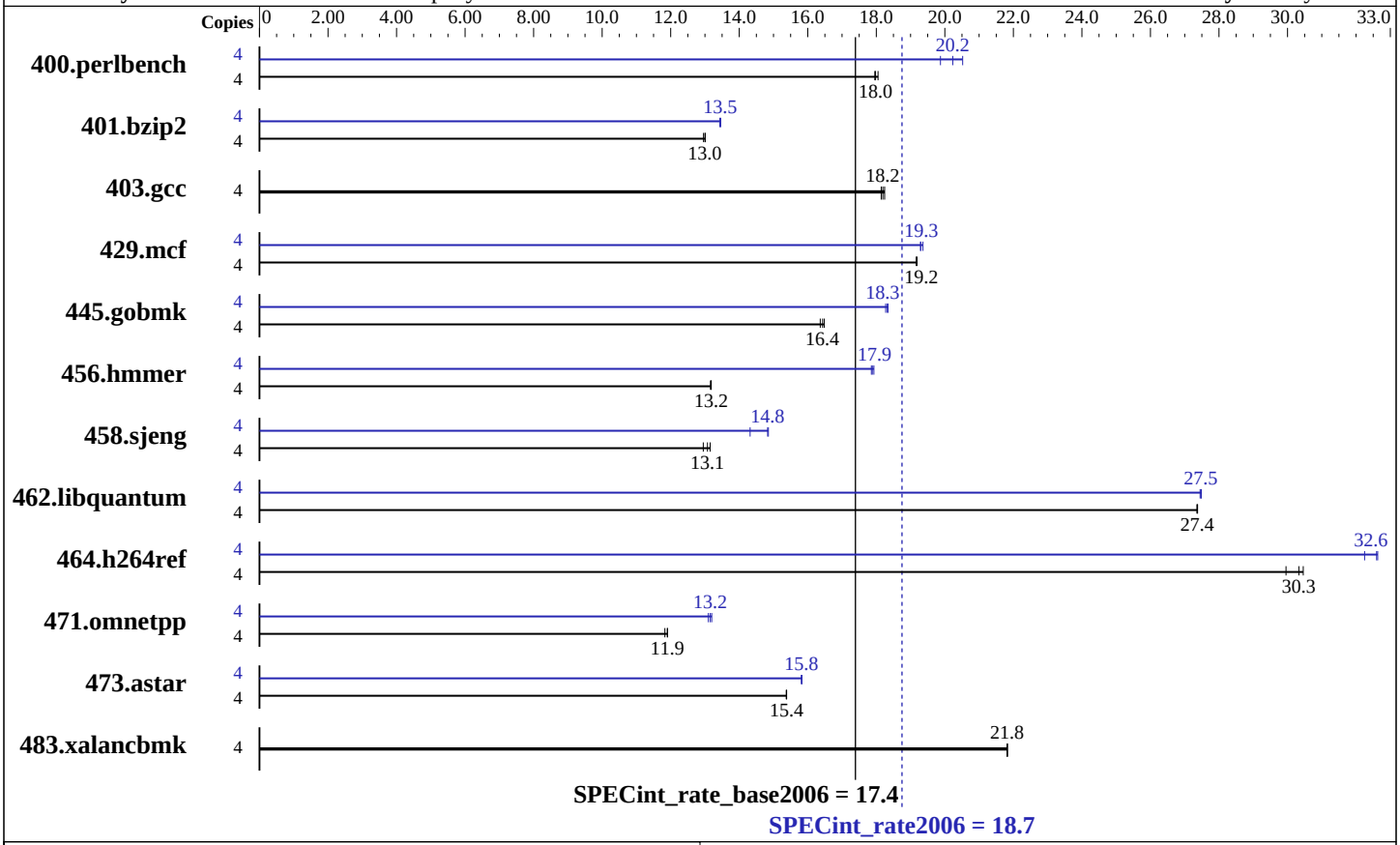
ProLiant DL580 G4
(2.6 GHz, Intel Xeon processor 7110M)

SPECint®_rate2006 = 18.7

SPECint_rate_base2006 = 17.4

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

Test date: Sep-2007
Hardware Availability: Aug-2006
Software Availability: May-2007



Hardware

CPU Name:	Intel Xeon 7110M
CPU Characteristics:	2.6 GHz, 800 MHz system bus
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip, 2 threads/core
CPU(s) orderable:	1,2,4 chips
Primary Cache:	12 K micro-ops I + 16 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	4 MB I+D on chip per chip
Other Cache:	None
Memory:	32 GB (16x2 GB PC2-3200R)
Disk Subsystem:	1x72 GB 15 K SAS
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64) kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for IA32/EM64T applications, Version 10.0 Build 20070426 Package ID: l_cc_p_10.0.023
Auto Parallel:	No
File System:	ext2
System State:	Multi-user run level 3
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap 8.1 libraries

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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	**2174**	**18.0**	2165	18.1	2176	18.0	4	**1932**	**20.2**	1967	19.9	1904	20.5
401.bzip2	4	**2969**	**13.0**	2968	13.0	2979	13.0	4	**2870**	**13.5**	2874	13.4	2868	13.5
403.gcc	4	1765	18.2	1775	18.1	**1770**	**18.2**	4	1765	18.2	1775	18.1	**1770**	**18.2**
429.mcf	4	1901	19.2	1903	19.2	**1903**	**19.2**	4	**1890**	**19.3**	1891	19.3	1884	19.4
445.gobmk	4	2546	16.5	2564	16.4	**2553**	**16.4**	4	2288	18.3	**2290**	**18.3**	2296	18.3
456.hmmer	4	2836	13.2	**2832**	**13.2**	2831	13.2	4	2090	17.9	2081	17.9	**2087**	**17.9**
458.sjeng	4	3680	13.2	3737	13.0	**3702**	**13.1**	4	**3264**	**14.8**	3259	14.9	3381	14.3
462.libquantum	4	3029	27.4	3028	27.4	**3029**	**27.4**	4	**3017**	**27.5**	3015	27.5	3019	27.4
464.h264ref	4	2955	30.0	2906	30.5	**2918**	**30.3**	4	2713	32.6	2745	32.2	**2715**	**32.6**
471.omnetpp	4	**2101**	**11.9**	2113	11.8	2100	11.9	4	1909	13.1	1894	13.2	**1900**	**13.2**
473.astar	4	1827	15.4	1825	15.4	**1826**	**15.4**	4	1776	15.8	**1775**	**15.8**	1774	15.8
483.xalancbmk	4	1265	21.8	1265	21.8	**1265**	**21.8**	4	1265	21.8	1265	21.8	**1265**	**21.8**

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

Platform Notes

BIOS configuration:
 Power Regulator Disabled
 Adjacent Sector Prefetch Enabled
 Hardware Prefetcher Enabled
 Hyper-Threading Technology Enabled

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

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

Continued on next page

Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-xP -ipo -O3 -static -no-prec-div

C++ benchmarks:
-xP -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/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/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:

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

401.bzip2: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-xP -ipo -O3 -no-prec-div`

403.gcc: `basepeak = yes`

429.mcf: `-xP -ipo -O3 -static -no-prec-div -prefetch -L/cpu2006/SmartHeap_8.1/lib -lsmartheap`

445.gobmk: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-xP -O2 -ipo -no-prec_div -ansi-alias`

456.hmmer: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-xP -ipo -O3 -static -no-prec-div -unroll2 -ansi-alias`

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

462.libquantum: `Same as 458.sjeng`

464.h264ref: `Same as 456.hmmer`

C++ benchmarks:

471.omnetpp: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-xP -O3 -ipo -no-prec_div -ansi-alias -Wl,-z,muldefs -L/cpu2006/SmartHeap_8.1/lib -lsmartheap`

473.astar: `Same as 471.omnetpp`

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-ic10-flags.20090714.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/hp-ic10-flags.20090714.xml`

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