



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 42.7

HP Integrity rx2620
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECint_rate_base2006 = 40.6

CPU2006 license: 03

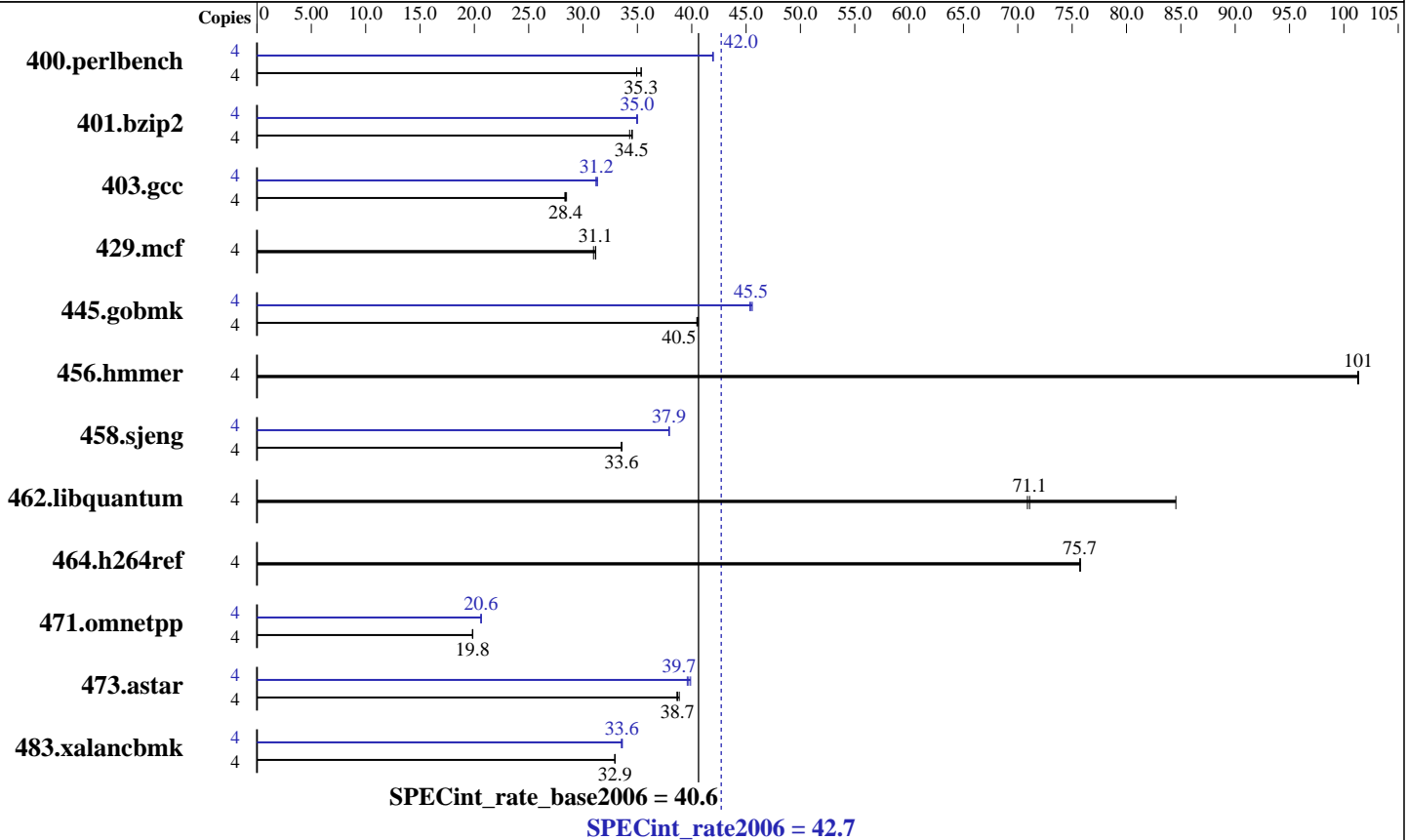
Test date: Oct-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9040
 CPU Characteristics: 1.6GHz/18MB, 400MHz FSB
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1-2 chips
 Primary Cache: 16 KB I + 16 KB D on chip per core
 Secondary Cache: 1 MB I + 256 KB D on chip per core
 L3 Cache: 9 MB I+D on chip per core
 Other Cache: None
 Memory: 24 GB (12x2GB DIMMs)
 Disk Subsystem: 36GB 15K RPM SCSI
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux AS release 4 (Update 4)
 Compiler: Intel C++ Compiler for Itanium version 9.1 (Build 20060818)
 Auto Parallel: No
 File System: ext3
 System State: Multi-user
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: MicroQuill Smartheap 8.0



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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	1119	34.9	<u>1106</u>	<u>35.3</u>	1105	35.4	4	932	41.9	931	42.0	<u>931</u>	<u>42.0</u>
401.bzip2	4	1126	34.3	<u>1119</u>	<u>34.5</u>	1118	34.5	4	1103	35.0	1104	35.0	<u>1104</u>	<u>35.0</u>
403.gcc	4	1137	28.3	<u>1135</u>	<u>28.4</u>	1131	28.5	4	<u>1031</u>	<u>31.2</u>	1032	31.2	1028	31.3
429.mcf	4	1178	31.0	<u>1171</u>	<u>31.1</u>	1170	31.2	4	1178	31.0	<u>1171</u>	<u>31.1</u>	1170	31.2
445.gobmk	4	1037	40.5	1034	40.6	<u>1036</u>	<u>40.5</u>	4	<u>923</u>	<u>45.5</u>	921	45.6	925	45.4
456.hmmer	4	368	101	368	101	<u>368</u>	<u>101</u>	4	368	101	368	101	<u>368</u>	<u>101</u>
458.sjeng	4	1444	33.5	<u>1442</u>	<u>33.6</u>	1442	33.6	4	1277	37.9	1276	37.9	<u>1276</u>	<u>37.9</u>
462.libquantum	4	980	84.5	1169	70.9	<u>1166</u>	<u>71.1</u>	4	980	84.5	1169	70.9	<u>1166</u>	<u>71.1</u>
464.h264ref	4	1168	75.8	1169	75.7	<u>1169</u>	<u>75.7</u>	4	1168	75.8	1169	75.7	<u>1169</u>	<u>75.7</u>
471.omnetpp	4	1261	19.8	<u>1259</u>	<u>19.8</u>	1259	19.9	4	1213	20.6	<u>1212</u>	<u>20.6</u>	1212	20.6
473.astar	4	<u>726</u>	<u>38.7</u>	723	38.9	727	38.6	4	<u>707</u>	<u>39.7</u>	704	39.9	709	39.6
483.xalancbmk	4	838	32.9	838	32.9	<u>838</u>	<u>32.9</u>	4	821	33.6	823	33.5	<u>822</u>	<u>33.6</u>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

stacksize set to unlimited prior to run

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_IA64
 401.bzip2: -DSPEC_CPU_LP64
 403.gcc: -DSPEC_CPU_LP64
 429.mcf: -DSPEC_CPU_LP64
 445.gobmk: -DSPEC_CPU_LP64
 456.hmmer: -DSPEC_CPU_LP64
 458.sjeng: -DSPEC_CPU_LP64
 462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
 464.h264ref: -DSPEC_CPU_LP64
 471.omnetpp: -DSPEC_CPU_LP64
 473.astar: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

483.xalanbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast -IPF_fp_relaxed -ansi-alias

C++ benchmarks:

-fast -IPF_fp_relaxed -ansi-alias -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

Peak Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: basepeak = yes

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Peak Optimization Flags (Continued)

458.sjeng: Same as 400.perlbench

462.libquantum: basepeak = yes

464.h264ref: basepeak = yes

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias -inline-factor=150 -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

483.xalancbmk: Same as 471.omnetpp

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.xml

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:03:14 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 28 November 2006.