



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 36.2

HP Integrity rx2620
(1.4GHz/12MB Dual-Core Intel Itanium 2)

SPECint_rate_base2006 = 34.5

CPU2006 license: 03

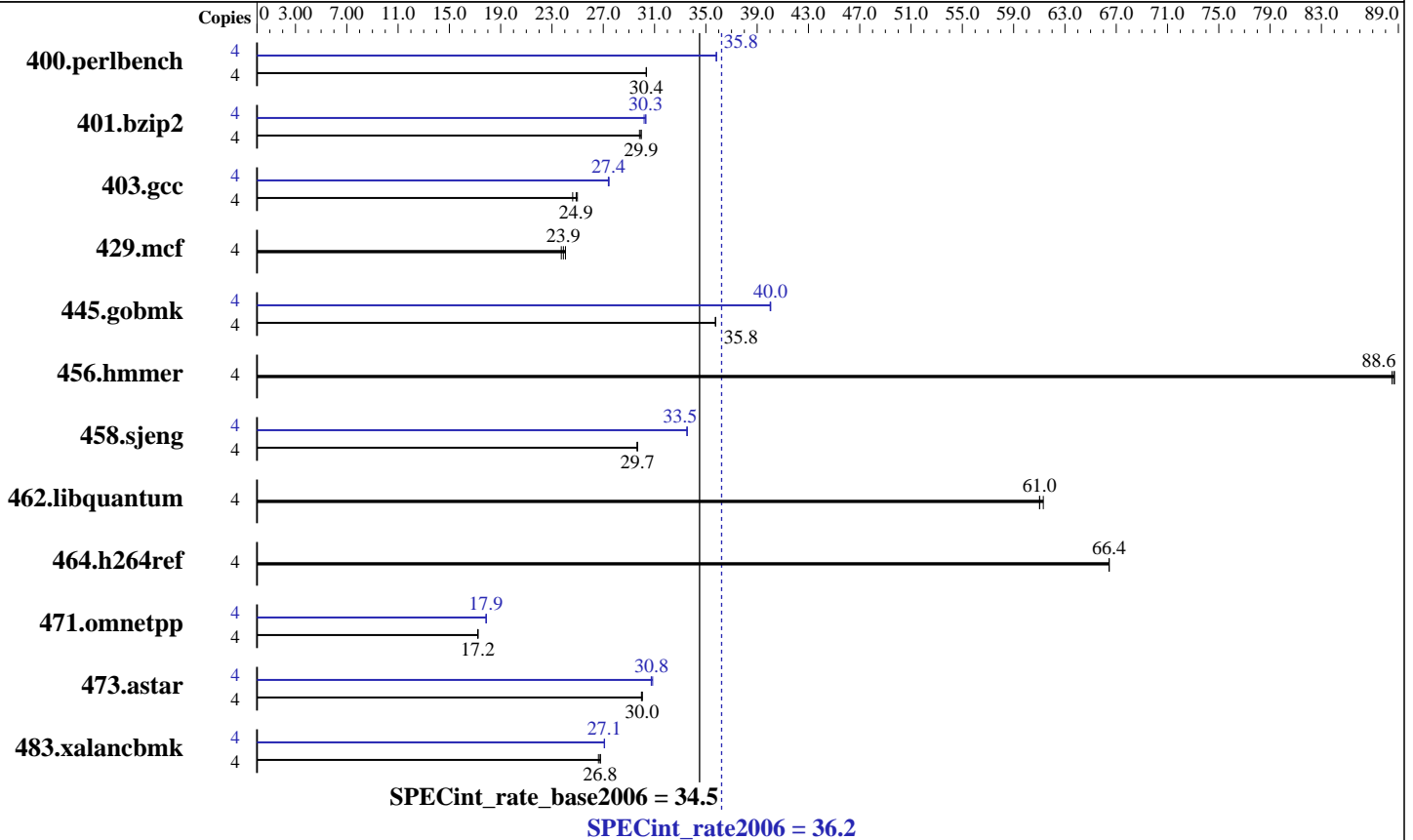
Test date: Nov-2006

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 9015
 CPU Characteristics: 1.4GHz/12MB, 400MHz FSB
 CPU MHz: 1400
 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: 6 MB I+D on chip per core
 Other Cache: None
 Memory: 24 GB (12x2GB DIMMs)
 Disk Subsystem: 146GB 10K 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	1288	30.3	1287	30.4	<u>1287</u>	<u>30.4</u>	4	1091	35.8	1091	35.8	<u>1091</u>	<u>35.8</u>		
401.bzip2	4	<u>1289</u>	<u>29.9</u>	1294	29.8	1288	30.0	4	1279	30.2	<u>1273</u>	<u>30.3</u>	1273	30.3		
403.gcc	4	1289	25.0	<u>1294</u>	<u>24.9</u>	1308	24.6	4	<u>1175</u>	<u>27.4</u>	1173	27.5	1175	27.4		
429.mcf	4	1537	23.7	<u>1527</u>	<u>23.9</u>	1517	24.1	4	1537	23.7	<u>1527</u>	<u>23.9</u>	1517	24.1		
445.gobmk	4	1173	35.8	<u>1174</u>	<u>35.8</u>	1174	35.7	4	1049	40.0	<u>1048</u>	<u>40.0</u>	1047	40.1		
456.hmmer	4	421	88.7	422	88.5	<u>421</u>	<u>88.6</u>	4	421	88.7	422	88.5	<u>421</u>	<u>88.6</u>		
458.sjeng	4	<u>1632</u>	<u>29.7</u>	1633	29.6	1632	29.7	4	1444	33.5	1443	33.5	<u>1443</u>	<u>33.5</u>		
462.libquantum	4	1352	61.3	<u>1358</u>	<u>61.0</u>	1358	61.0	4	1352	61.3	<u>1358</u>	<u>61.0</u>	1358	61.0		
464.h264ref	4	1332	66.5	1332	66.4	<u>1332</u>	<u>66.4</u>	4	1332	66.5	1332	66.4	<u>1332</u>	<u>66.4</u>		
471.omnetpp	4	1451	17.2	<u>1451</u>	<u>17.2</u>	1453	17.2	4	<u>1400</u>	<u>17.9</u>	1400	17.9	1397	17.9		
473.astar	4	937	30.0	935	30.0	<u>935</u>	<u>30.0</u>	4	<u>913</u>	<u>30.8</u>	910	30.9	913	30.7		
483.xalancbmk	4	1031	26.8	<u>1032</u>	<u>26.8</u>	1037	26.6	4	1018	27.1	1019	27.1	<u>1019</u>	<u>27.1</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

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Base Portability Flags (Continued)

473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -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 10:02:59 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 28 November 2006.