



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 45.9

HP Integrity rx3600
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECint_rate_base2006 = 43.6

CPU2006 license: 03

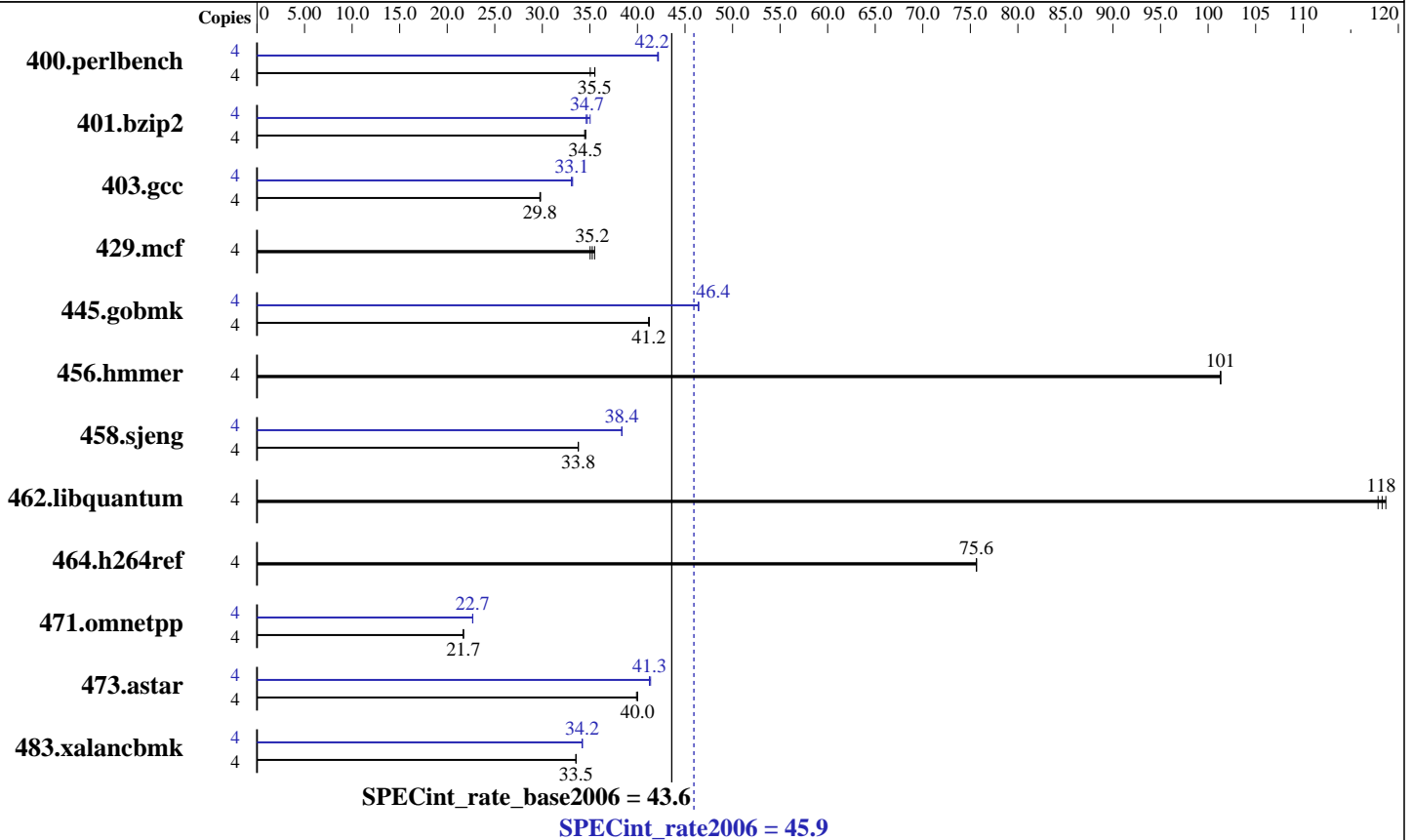
Test date: Nov-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Nov-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9040
 CPU Characteristics: 1.6GHz/18MB, 533MHz 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: 16 GB (8x2GB DIMMs, AD124A 8-DIMM memory carrier)
 Disk Subsystem: 2x73GB 10K RPM SAS (mirrored)
 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	1115	35.0	<u>1101</u>	<u>35.5</u>	1100	35.5	4	<u>927</u>	<u>42.2</u>	928	42.1	926	42.2
401.bzip2	4	1120	34.5	1117	34.6	<u>1118</u>	<u>34.5</u>	4	1102	35.0	<u>1112</u>	<u>34.7</u>	1115	34.6
403.gcc	4	1082	29.8	<u>1082</u>	<u>29.8</u>	1080	29.8	4	970	33.2	<u>973</u>	<u>33.1</u>	974	33.1
429.mcf	4	1028	35.5	1042	35.0	<u>1035</u>	<u>35.2</u>	4	1028	35.5	1042	35.0	<u>1035</u>	<u>35.2</u>
445.gobmk	4	1019	41.2	1017	41.3	<u>1018</u>	<u>41.2</u>	4	905	46.4	<u>904</u>	<u>46.4</u>	904	46.4
456.hmmer	4	368	101	<u>368</u>	<u>101</u>	368	101	4	368	101	<u>368</u>	<u>101</u>	368	101
458.sjeng	4	1432	33.8	1433	33.8	<u>1433</u>	<u>33.8</u>	4	1262	38.4	<u>1262</u>	<u>38.4</u>	1261	38.4
462.libquantum	4	703	118	698	119	<u>701</u>	<u>118</u>	4	703	118	698	119	<u>701</u>	<u>118</u>
464.h264ref	4	1170	75.7	<u>1170</u>	<u>75.6</u>	1171	75.6	4	1170	75.7	<u>1170</u>	<u>75.6</u>	1171	75.6
471.omnetpp	4	1152	21.7	1153	21.7	<u>1152</u>	<u>21.7</u>	4	1103	22.7	<u>1102</u>	<u>22.7</u>	1102	22.7
473.astar	4	702	40.0	704	39.9	<u>702</u>	<u>40.0</u>	4	681	41.3	<u>681</u>	<u>41.3</u>	679	41.4
483.xalancbmk	4	823	33.5	823	33.5	<u>823</u>	<u>33.5</u>	4	<u>807</u>	<u>34.2</u>	807	34.2	807	34.2

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.

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