



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®2006 = 10.6

HP Integrity rx3600
(1.4GHz/12MB Dual-Core Intel Itanium 2)

SPECint_base2006 = 10.0

CPU2006 license: 03

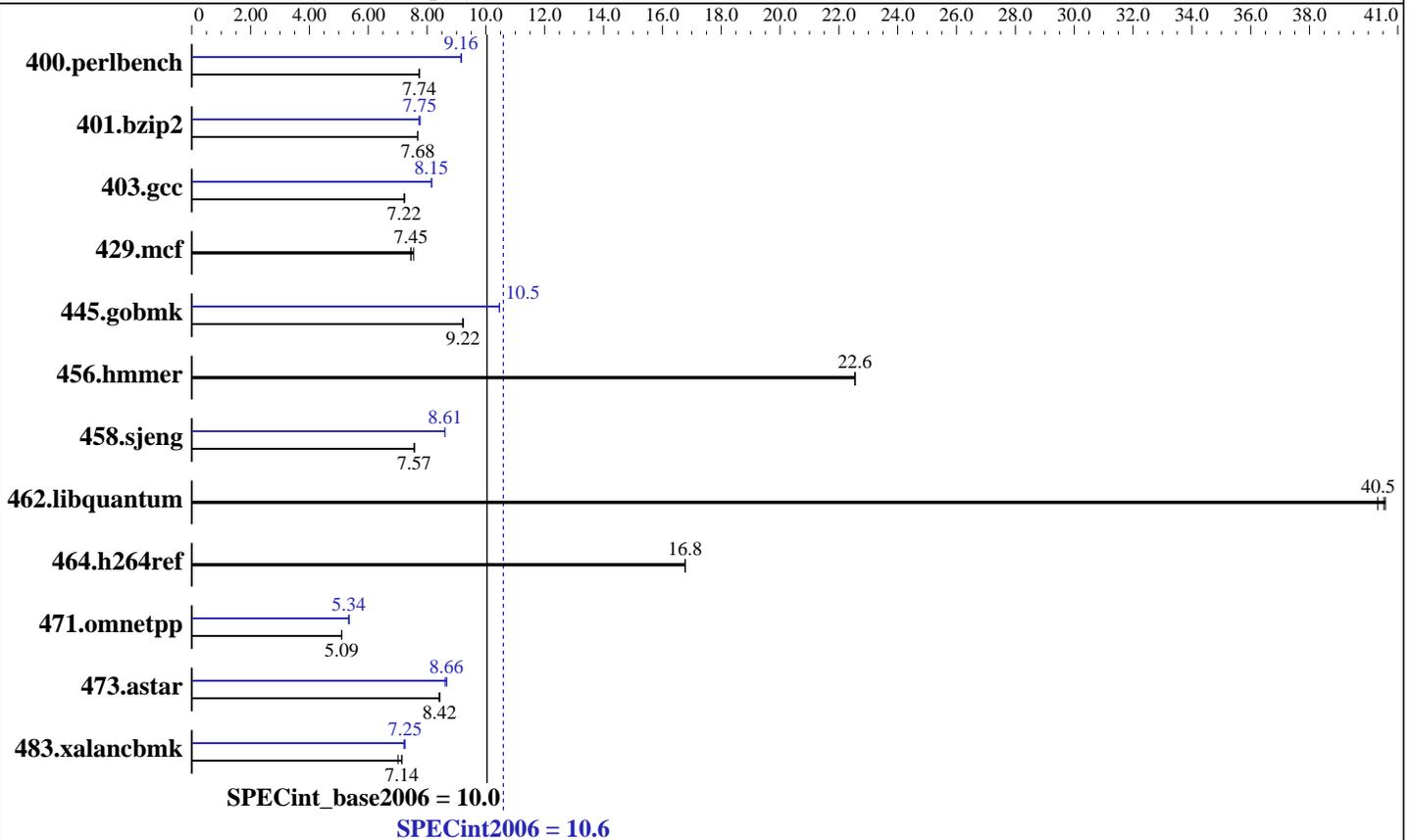
Test date: Dec-2006

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 9020
 CPU Characteristics: 1.4GHz/12MB, 533MHz FSB
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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: 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 9.1 for Linux (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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>1263</u>	<u>7.74</u>	1263	7.74	1263	7.73	1065	9.17	<u>1067</u>	<u>9.16</u>	1067	9.16
401.bzip2	1257	7.67	1255	7.69	<u>1256</u>	<u>7.68</u>	1249	7.73	<u>1246</u>	<u>7.75</u>	1243	7.76
403.gcc	<u>1114</u>	<u>7.22</u>	1113	7.23	1115	7.22	<u>987</u>	<u>8.15</u>	988	8.15	987	8.16
429.mcf	1224	7.45	1210	7.54	<u>1224</u>	<u>7.45</u>	1224	7.45	1210	7.54	<u>1224</u>	<u>7.45</u>
445.gobmk	1137	9.22	1138	9.22	<u>1138</u>	<u>9.22</u>	1003	10.5	<u>1003</u>	<u>10.5</u>	1003	10.5
456.hmmer	414	22.5	414	22.6	<u>414</u>	<u>22.6</u>	414	22.5	414	22.6	<u>414</u>	<u>22.6</u>
458.sjeng	1599	7.57	1599	7.57	<u>1599</u>	<u>7.57</u>	1406	8.61	1405	8.61	<u>1406</u>	<u>8.61</u>
462.libquantum	514	40.3	<u>511</u>	<u>40.5</u>	511	40.6	514	40.3	<u>511</u>	<u>40.5</u>	511	40.6
464.h264ref	1319	16.8	1319	16.8	<u>1319</u>	<u>16.8</u>	1319	16.8	1319	16.8	<u>1319</u>	<u>16.8</u>
471.omnetpp	1227	5.09	1226	5.10	<u>1227</u>	<u>5.09</u>	1169	5.35	1170	5.34	<u>1170</u>	<u>5.34</u>
473.astar	<u>834</u>	<u>8.42</u>	832	8.44	835	8.41	815	8.62	810	8.67	<u>810</u>	<u>8.66</u>
483.xalancbmk	<u>967</u>	<u>7.14</u>	984	7.01	966	7.14	<u>952</u>	<u>7.25</u>	951	7.25	957	7.21

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

system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in elilo.conf

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

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Base Portability Flags (Continued)

464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
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

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Peak Optimization Flags (Continued)

456.hmmcr: basepeak = yes

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.20090715.html

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

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.xml

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

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