



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®2006 = 12.3

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

SPECint_base2006 = 11.6

CPU2006 license: 03

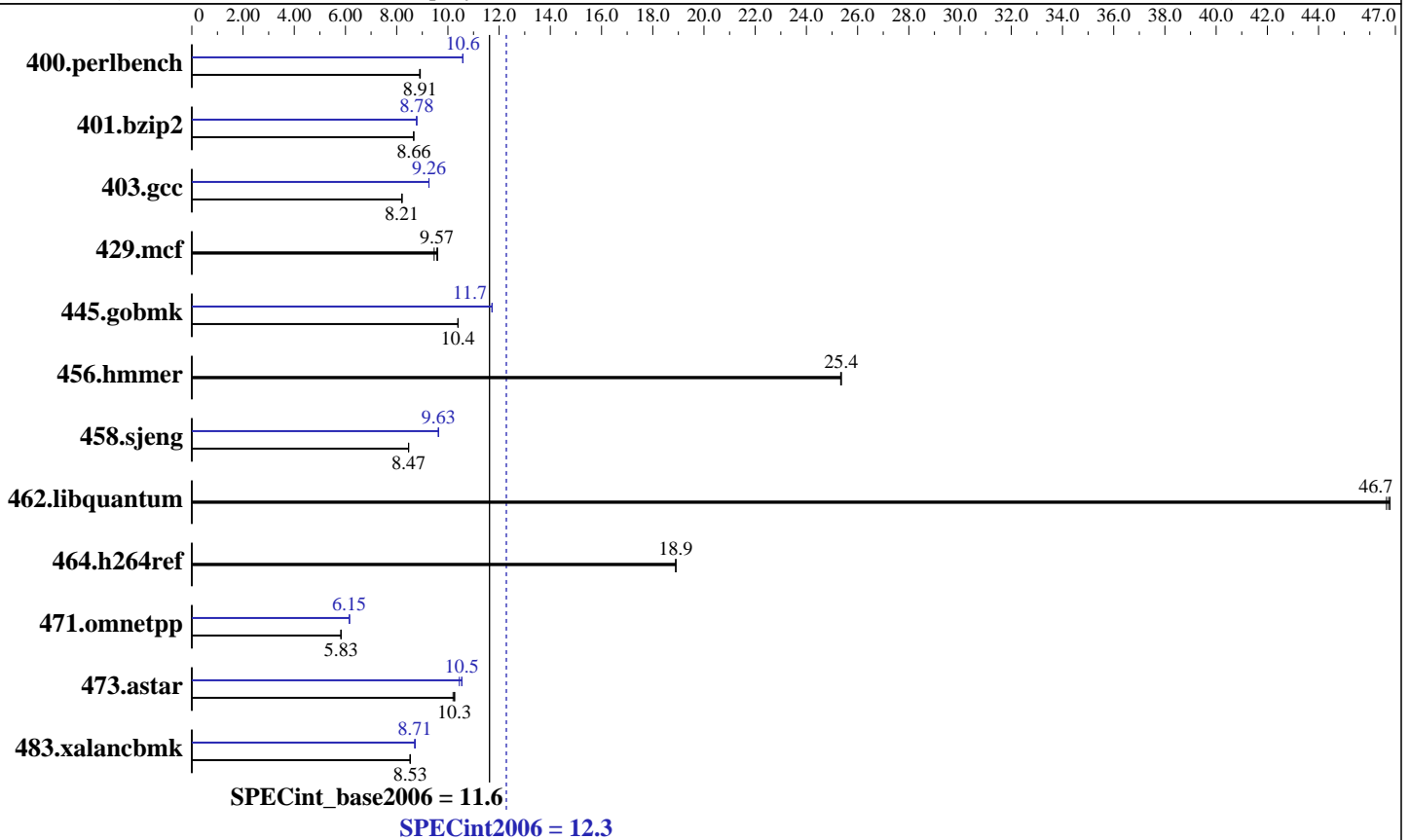
Test date: Nov-2006

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: 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: 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>1096</u>	<u>8.91</u>	1095	8.92	1098	8.90	923	10.6	924	10.6	<u>923</u>	<u>10.6</u>
401.bzip2	1114	8.66	<u>1114</u>	<u>8.66</u>	1114	8.67	1098	8.79	1100	8.77	<u>1099</u>	<u>8.78</u>
403.gcc	<u>981</u>	<u>8.21</u>	981	8.21	981	8.20	869	9.26	870	9.26	<u>869</u>	<u>9.26</u>
429.mcf	<u>953</u>	<u>9.57</u>	950	9.60	964	9.46	<u>953</u>	<u>9.57</u>	950	9.60	964	9.46
445.gobmk	1009	10.4	1009	10.4	<u>1009</u>	<u>10.4</u>	894	11.7	895	11.7	<u>895</u>	<u>11.7</u>
456.hmmer	<u>368</u>	<u>25.4</u>	368	25.4	368	25.3	<u>368</u>	<u>25.4</u>	368	25.4	368	25.3
458.sjeng	1429	8.47	1430	8.46	<u>1429</u>	<u>8.47</u>	1256	9.63	<u>1256</u>	<u>9.63</u>	1257	9.63
462.libquantum	444	46.7	<u>443</u>	<u>46.7</u>	443	46.8	444	46.7	<u>443</u>	<u>46.7</u>	443	46.8
464.h264ref	1171	18.9	<u>1171</u>	<u>18.9</u>	1171	18.9	1171	18.9	<u>1171</u>	<u>18.9</u>	1171	18.9
471.omnetpp	<u>1073</u>	<u>5.83</u>	1072	5.83	1074	5.82	1016	6.15	1015	6.15	<u>1016</u>	<u>6.15</u>
473.astar	684	10.3	688	10.2	<u>685</u>	<u>10.3</u>	672	10.4	<u>666</u>	<u>10.5</u>	666	10.5
483.xalancbmk	808	8.54	810	8.52	<u>809</u>	<u>8.53</u>	793	8.70	791	8.73	<u>792</u>	<u>8.71</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

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.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 10:04:11 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 28 November 2006.