



SPEC[®] CINT2006 Result

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Hewlett-Packard Company

SPECint[®]2006 = 12.0

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

SPECint_base2006 = 11.4

CPU2006 license: 03

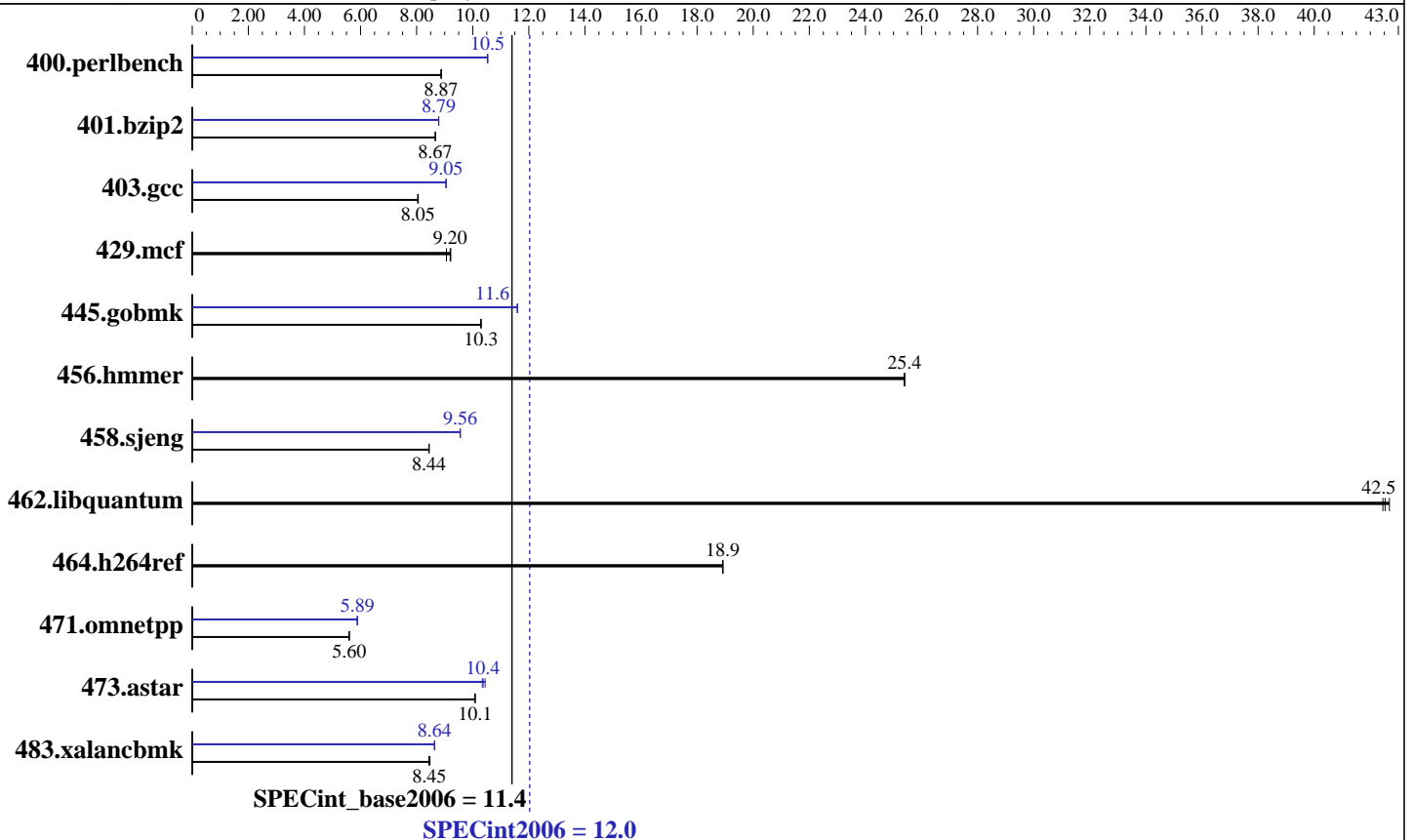
Test date: Oct-2006

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: 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: 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1099	8.89	<u>1101</u>	<u>8.87</u>	1102	8.87	<u>928</u>	<u>10.5</u>	929	10.5	927	10.5
401.bzip2	<u>1113</u>	<u>8.67</u>	1113	8.67	1114	8.67	1098	8.79	<u>1098</u>	<u>8.79</u>	1099	8.78
403.gcc	1001	8.04	999	8.06	<u>1000</u>	<u>8.05</u>	<u>889</u>	<u>9.05</u>	889	9.05	890	9.05
429.mcf	989	9.22	1006	9.06	<u>992</u>	<u>9.20</u>	989	9.22	1006	9.06	<u>992</u>	<u>9.20</u>
445.gobmk	<u>1019</u>	<u>10.3</u>	1019	10.3	1018	10.3	905	11.6	<u>905</u>	<u>11.6</u>	905	11.6
456.hmmer	<u>367</u>	<u>25.4</u>	367	25.4	367	25.4	<u>367</u>	<u>25.4</u>	367	25.4	367	25.4
458.sjeng	1433	8.44	<u>1433</u>	<u>8.44</u>	1433	8.44	<u>1266</u>	<u>9.56</u>	1267	9.55	1266	9.56
462.libquantum	488	42.4	485	42.7	<u>487</u>	<u>42.5</u>	488	42.4	485	42.7	<u>487</u>	<u>42.5</u>
464.h264ref	1170	18.9	1170	18.9	<u>1170</u>	<u>18.9</u>	1170	18.9	1170	18.9	<u>1170</u>	<u>18.9</u>
471.omnetpp	1117	5.60	1117	5.60	<u>1117</u>	<u>5.60</u>	1061	5.89	<u>1061</u>	<u>5.89</u>	1063	5.88
473.astar	696	10.1	696	10.1	<u>696</u>	<u>10.1</u>	<u>677</u>	<u>10.4</u>	679	10.3	672	10.4
483.xalancbmk	814	8.48	<u>817</u>	<u>8.45</u>	818	8.44	799	8.63	<u>799</u>	<u>8.64</u>	798	8.65

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

Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

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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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 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.hmmmer: 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

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Peak Optimization Flags (Continued)

```
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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