SPEC® CINT2006 Result

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Hewlett-Packard Company

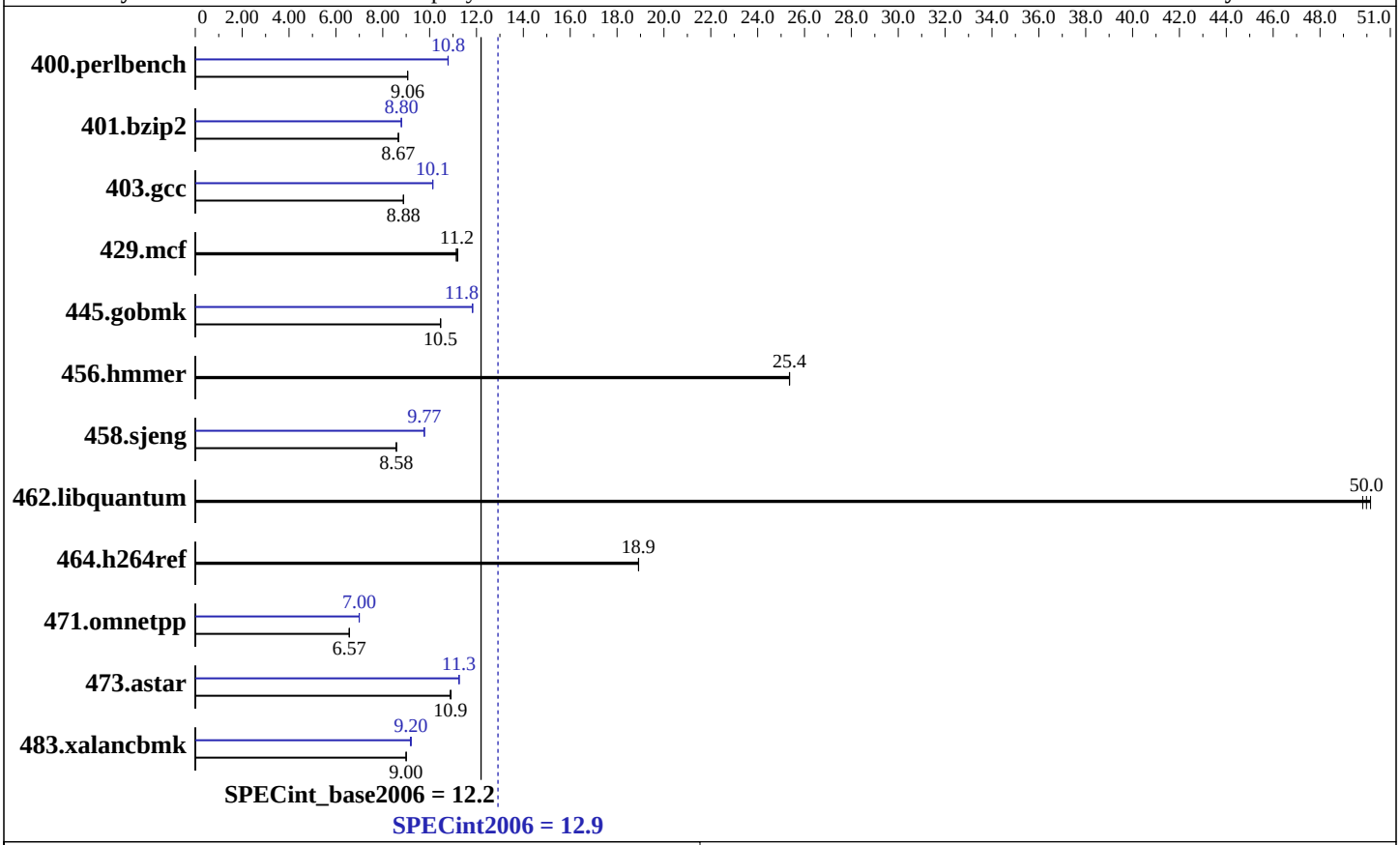
HP Integrity rx6600
(1.6GHz/24MB Dual-Core Intel Itanium 2)

SPECint®2006 = 12.9

SPECint_base2006 = 12.2

CPU2006 license: 03
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company

Test date: Oct-2006
Hardware Availability: Sep-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Dual-Core Intel Itanium 2 9050
CPU Characteristics:	1.6GHz/24MB, 533MHz FSB
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1-4 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:	12 MB I+D on chip per core
Other Cache:	None
Memory:	24 GB (24x1GB DIMMs)
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	1078	9.06	**1078**	**9.06**	1077	9.07	906	10.8	905	10.8	**905**	**10.8**
401.bzip2	1113	8.67	**1113**	**8.67**	1113	8.67	**1097**	**8.80**	1097	8.79	1097	8.80
403.gcc	907	8.88	**906**	**8.88**	906	8.89	794	10.1	**794**	**10.1**	795	10.1
429.mcf	814	11.2	819	11.1	**816**	**11.2**	814	11.2	819	11.1	**816**	**11.2**
445.gobmk	1002	10.5	**1002**	**10.5**	1002	10.5	886	11.8	**887**	**11.8**	887	11.8
456.hmmer	**368**	**25.4**	368	25.4	368	25.4	**368**	**25.4**	368	25.4	368	25.4
458.sjeng	1410	8.58	1410	8.58	**1410**	**8.58**	1238	9.77	1238	9.78	**1238**	**9.77**
462.libquantum	416	49.8	413	50.2	**415**	**50.0**	416	49.8	413	50.2	**415**	**50.0**
464.h264ref	1170	18.9	**1170**	**18.9**	1170	18.9	1170	18.9	**1170**	**18.9**	1170	18.9
471.omnetpp	951	6.58	951	6.57	**951**	**6.57**	894	6.99	893	7.00	**893**	**7.00**
473.astar	645	10.9	643	10.9	**644**	**10.9**	**624**	**11.3**	624	11.3	623	11.3
483.xalancbmk	**767**	**9.00**	766	9.00	767	8.99	752	9.18	**750**	**9.20**	749	9.21

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
```

General Notes

```
Submitted_by: "Kirby Collins" <kirby.collins@hp.com>
Submitted: Wed Nov  1 13:19:48 2006
Submission: cpu2006-20061016-00117.sub
```

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
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

Continued on next page

Peak Optimization Flags (Continued)

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

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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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