



SPEC® CINT2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint®2006 = 12.9

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

SPECint_base2006 = 12.2

CPU2006 license: 03

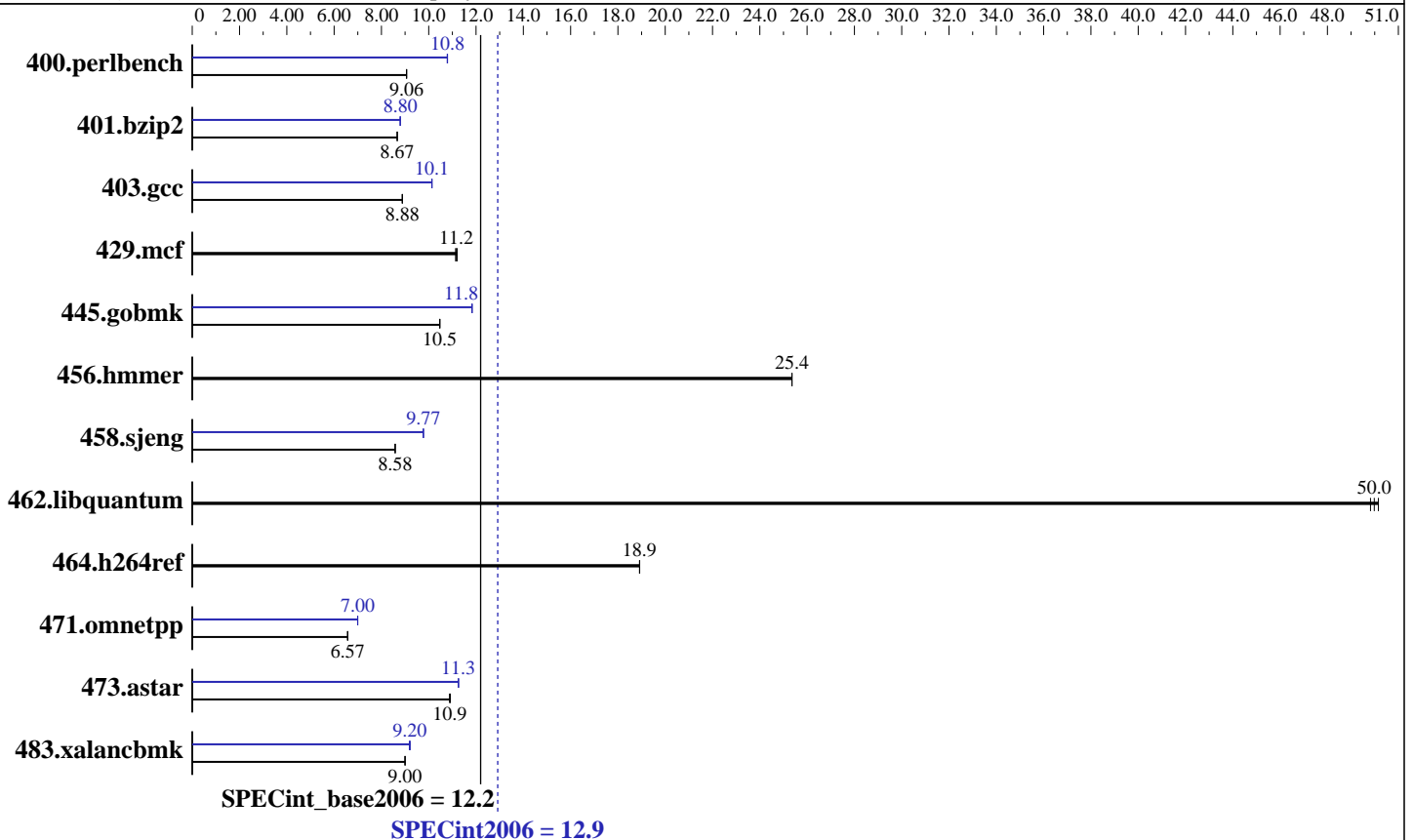
Test date: Oct-2006

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 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



SPEC CINT2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint2006 = 12.9

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

SPECint_base2006 = 12.2

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

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.hammer	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

Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



SPEC CINT2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint2006 = 12.9

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

SPECint_base2006 = 12.2

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

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.hmmmer: -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 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

```

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint2006 = 12.9

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

SPECint_base2006 = 12.2

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

Peak Optimization Flags (Continued)

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

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Wed Jul 15 11:42:37 2009 by SPEC CPU2006 PS/PDF formatter v6323.