



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint®_rate2006 = 6.37

HP BladeSystem bc2000 Blade PC
(1.2GHz AMD Athlon 64 2100+)

SPECint_rate_base2006 = 5.74

CPU2006 license: 3

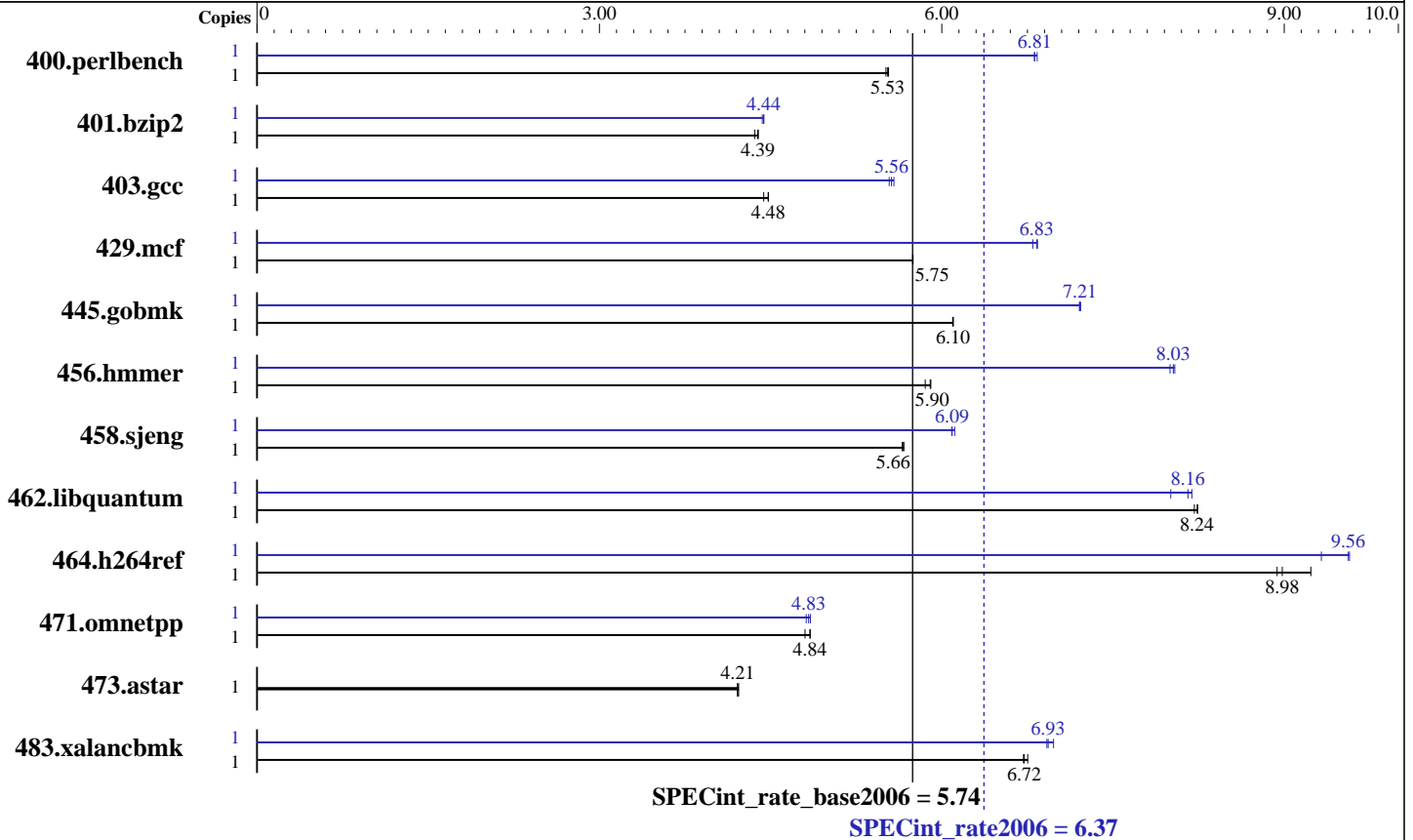
Test sponsor: Hewlett-Packard Company

Tested by: AMD Performance Labs

Test date: Dec-2007

Hardware Availability: Jun-2007

Software Availability: Mar-2008



Hardware

CPU Name: AMD Athlon 64 2100+
 CPU Characteristics:
 CPU MHz: 1200
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 64 KB I + 64 KB D on chip per chip
 Secondary Cache: 512 KB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (1x2GB, DDR2-667 CL5 ECC Reg Dual Rank)
 Disk Subsystem: 1x80 GB SATA, 5400 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-default
 Compiler: QLogic PathScale Compiler Suite, Release 3.0
 Auto Parallel: No
 File System: ext3
 System State: Multi-user, run level 3
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap 8.0 32 bit Library for Linux



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint_rate2006 = 6.37

HP BladeSystem bc2000 Blade PC
(1.2GHz AMD Athlon 64 2100+)

SPECint_rate_base2006 = 5.74

CPU2006 license: 3

Test date: Dec-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jun-2007

Tested by: AMD Performance Labs

Software Availability: Mar-2008

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1	1766	5.53	1773	5.51	1768	5.53	1	1429	6.84	1434	6.81	1434	6.81
401.bzip2	1	2213	4.36	2197	4.39	2200	4.39	1	2173	4.44	2173	4.44	2180	4.43
403.gcc	1	1813	4.44	1797	4.48	1797	4.48	1	1443	5.58	1448	5.56	1453	5.54
429.mcf	1	1587	5.75	1588	5.74	1587	5.75	1	1342	6.80	1334	6.84	1335	6.83
445.gobmk	1	1720	6.10	1720	6.10	1721	6.10	1	1454	7.22	1456	7.21	1455	7.21
456.hmmer	1	1582	5.90	1594	5.85	1580	5.90	1	1166	8.00	1160	8.04	1162	8.03
458.sjeng	1	2135	5.67	2140	5.65	2137	5.66	1	1987	6.09	1979	6.11	1988	6.09
462.libquantum	1	2514	8.24	2515	8.24	2523	8.21	1	2588	8.01	2530	8.19	2540	8.16
464.h264ref	1	2464	8.98	2397	9.23	2476	8.94	1	2312	9.57	2315	9.56	2373	9.33
471.omnetpp	1	1289	4.85	1302	4.80	1290	4.84	1	1289	4.85	1293	4.83	1299	4.81
473.astar	1	1667	4.21	1664	4.22	1668	4.21	1	1667	4.21	1664	4.22	1668	4.21
483.xalancbmk	1	1027	6.72	1026	6.72	1022	6.75	1	997	6.92	989	6.98	995	6.93

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

taskset utility used to bind cores to processes

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Base Portability Flags

```

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
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
483.xalancbmk: -DSPEC_CPU_LINUX

```



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint_rate2006 = 6.37

HP BladeSystem bc2000 Blade PC
(1.2GHz AMD Athlon 64 2100+)

SPECint_rate_base2006 = 5.74

CPU2006 license: 3

Test date: Dec-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jun-2007

Tested by: AMD Performance Labs

Software Availability: Mar-2008

Base Optimization Flags

C benchmarks:

-Ofast -OPT:malloc_alg=1

C++ benchmarks:

-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

Peak Compiler Invocation

C benchmarks:

pathcc

C++ benchmarks:

pathCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -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
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-LNO:opt=0

401.bzip2: -O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint

403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
-OPT:Ofast

429.mcf: -m32 -O3 -ipa
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

445.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off
-WOPT:retype_expr=on

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECint_rate2006 = 6.37

HP BladeSystem bc2000 Blade PC
(1.2GHz AMD Athlon 64 2100+)

SPECint_rate_base2006 = 5.74

CPU2006 license: 3

Test date: Dec-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jun-2007

Tested by: AMD Performance Labs

Software Availability: Mar-2008

Peak Optimization Flags (Continued)

456.hmmmer: -O2 -OPT:alias=disjoint -OPT:malloc_alg=1 -CG:cflow=0

458.sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=50000 -IPA:pu_reorder=2

462.libquantum: -O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: -Ofast -CG:gcm=off -m32
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.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 Tue Jul 22 16:05:22 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 23 January 2008.