SPEC® CINT2006 Result

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Hewlett-Packard Company

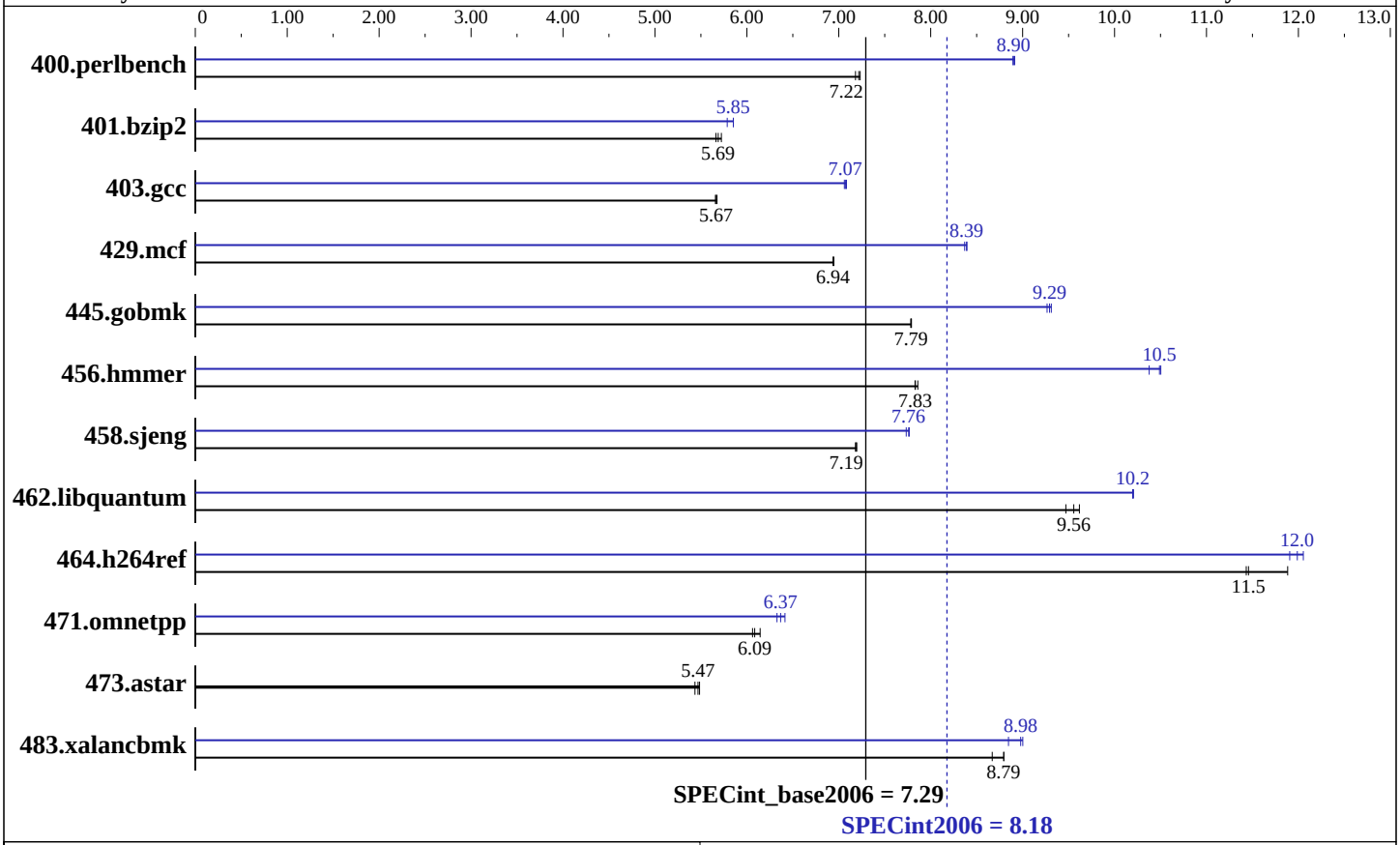
HP BladeSystem bc2500 Blade PC
(1.6GHz AMD Athlon 64 X2 3000+)

SPECint®2006 = 8.18

SPECint_base2006 = 7.29

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 X2 3000+
CPU Characteristics:	
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (2x2GB, 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-smp
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

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**1354**	**7.22**	1360	7.18	1351	7.23	1098	8.89	**1098**	**8.90**	1096	8.91
401.bzip2	1704	5.66	1686	5.72	**1696**	**5.69**	1668	5.79	1648	5.85	**1649**	**5.85**
403.gcc	1423	5.66	1418	5.68	**1421**	**5.67**	1140	7.06	1136	7.08	**1138**	**7.07**
429.mcf	**1314**	**6.94**	1313	6.95	1314	6.94	1086	8.39	**1087**	**8.39**	1090	8.37
445.gobmk	**1347**	**7.79**	1346	7.79	1348	7.78	1132	9.27	1126	9.31	**1129**	**9.29**
456.hmmer	**1191**	**7.83**	1187	7.86	1192	7.83	888	10.5	899	10.4	**890**	**10.5**
458.sjeng	1685	7.18	1682	7.20	**1684**	**7.19**	1558	7.77	1565	7.73	**1559**	**7.76**
462.libquantum	2154	9.62	2188	9.47	**2168**	**9.56**	2032	10.2	**2031**	**10.2**	2030	10.2
464.h264ref	**1932**	**11.5**	1936	11.4	1862	11.9	1859	11.9	1836	12.1	**1846**	**12.0**
471.omnetpp	1031	6.06	1017	6.14	**1027**	**6.09**	**982**	**6.37**	988	6.33	974	6.41
473.astar	1291	5.44	1280	5.49	**1284**	**5.47**	1291	5.44	1280	5.49	**1284**	**5.47**
483.xalancbmk	**785**	**8.79**	796	8.67	785	8.80	780	8.85	**768**	**8.98**	767	9.00

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

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`

Base Optimization Flags

C benchmarks:
`-Ofast -OPT:malloc_alg=1`

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Base Optimization Flags (Continued)

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.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

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

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

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Peak Optimization Flags (Continued)

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`

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 16:07:20 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 23 January 2008.