SPEC® CINT2006 Result

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Hewlett-Packard Company

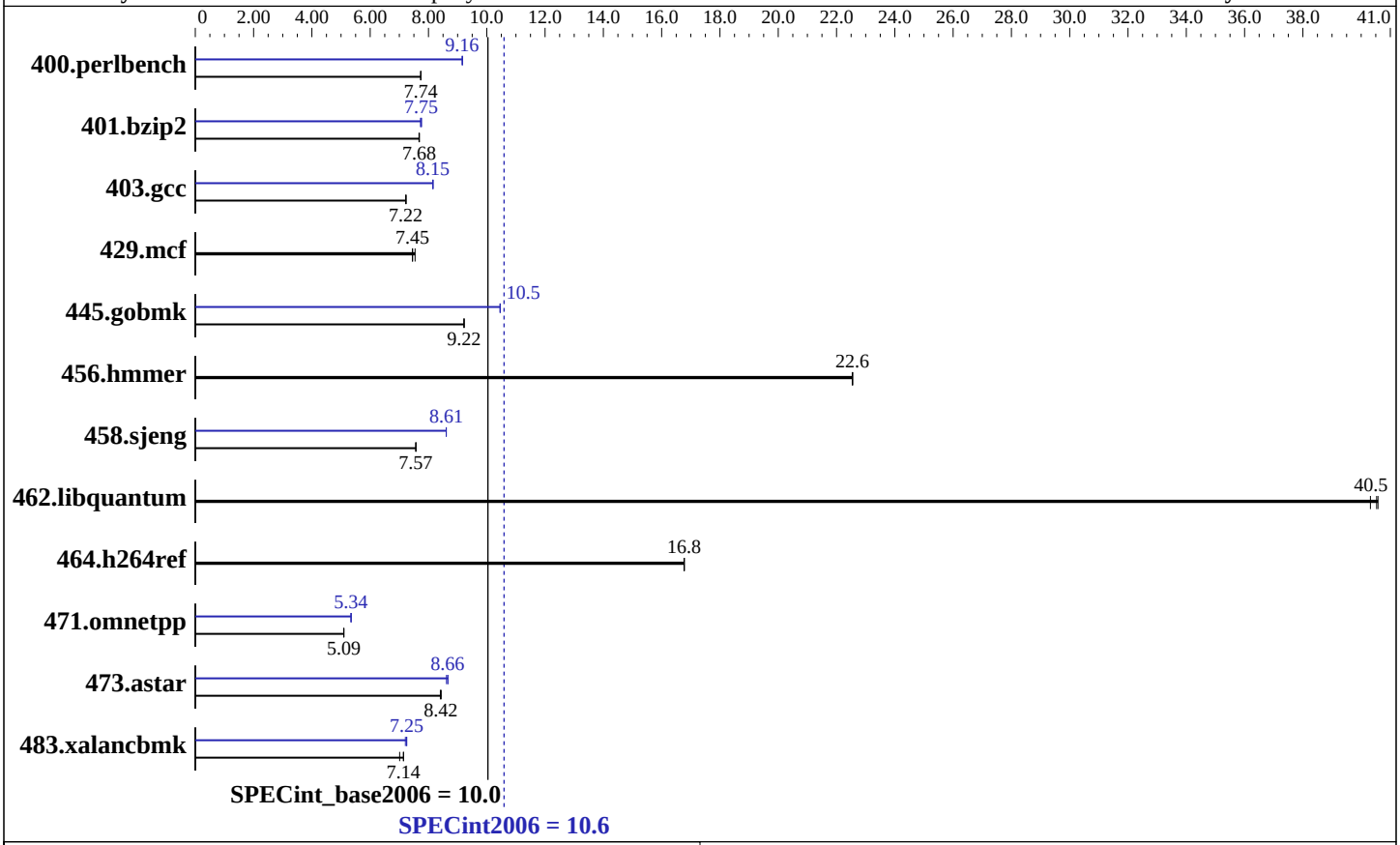
HP Integrity rx3600
(1.4GHz/12MB Dual-Core Intel Itanium 2)

SPECint®2006 = 10.6

SPECint_base2006 = 10.0

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

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



Hardware

CPU Name:	Dual-Core Intel Itanium 2 9020
CPU Characteristics:	1.4GHz/12MB, 533MHz 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:	6 MB I+D on chip per core
Other Cache:	None
Memory:	16 GB (8x2GB DIMMs, AD124A 8-DIMM memory carrier)
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 9.1 for Linux (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	**1263**	**7.74**	1263	7.74	1263	7.73	1065	9.17	**1067**	**9.16**	1067	9.16
401.bzip2	1257	7.67	1255	7.69	**1256**	**7.68**	1249	7.73	**1246**	**7.75**	1243	7.76
403.gcc	**1114**	**7.22**	1113	7.23	1115	7.22	**987**	**8.15**	988	8.15	987	8.16
429.mcf	1224	7.45	1210	7.54	**1224**	**7.45**	1224	7.45	1210	7.54	**1224**	**7.45**
445.gobmk	1137	9.22	1138	9.22	**1138**	**9.22**	1003	10.5	**1003**	**10.5**	1003	10.5
456.hmmer	414	22.5	414	22.6	**414**	**22.6**	414	22.5	414	22.6	**414**	**22.6**
458.sjeng	1599	7.57	1599	7.57	**1599**	**7.57**	1406	8.61	1405	8.61	**1406**	**8.61**
462.libquantum	514	40.3	**511**	**40.5**	511	40.6	514	40.3	**511**	**40.5**	511	40.6
464.h264ref	1319	16.8	1319	16.8	**1319**	**16.8**	1319	16.8	1319	16.8	**1319**	**16.8**
471.omnetpp	1227	5.09	1226	5.10	**1227**	**5.09**	1169	5.35	1170	5.34	**1170**	**5.34**
473.astar	**834**	**8.42**	832	8.44	835	8.41	815	8.62	810	8.67	**810**	**8.66**
483.xalancbmk	**967**	**7.14**	984	7.01	966	7.14	**952**	**7.25**	951	7.25	957	7.21

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
```

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

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Base 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 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

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

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Peak Optimization Flags (Continued)

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.20090715.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.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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