SPEC® CINT2006 Result

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Hewlett-Packard Company

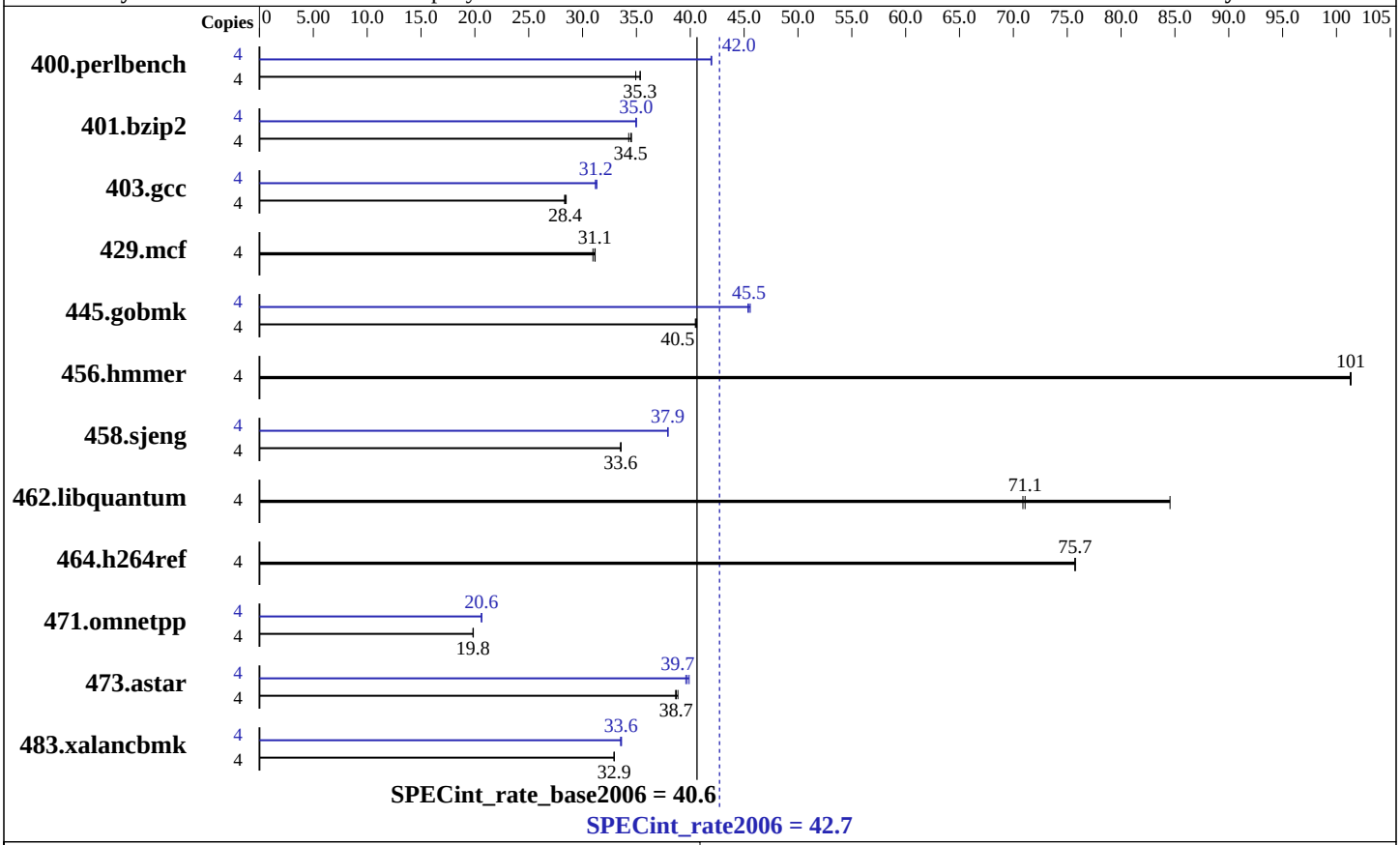
HP Integrity rx2620
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECint®_rate2006 = 42.7

SPECint_rate_base2006 = 40.6

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 9040
CPU Characteristics:	1.6GHz/18MB, 400MHz FSB
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 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:	9 MB I+D on chip per core
Other Cache:	None
Memory:	24 GB (12x2GB DIMMs)
Disk Subsystem:	36GB 15K RPM SCSI
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	1119	34.9	**1106**	**35.3**	1105	35.4	4	932	41.9	931	42.0	**931**	**42.0**
401.bzip2	4	1126	34.3	**1119**	**34.5**	1118	34.5	4	1103	35.0	1104	35.0	**1104**	**35.0**
403.gcc	4	1137	28.3	**1135**	**28.4**	1131	28.5	4	**1031**	**31.2**	1032	31.2	1028	31.3
429.mcf	4	1178	31.0	**1171**	**31.1**	1170	31.2	4	1178	31.0	**1171**	**31.1**	1170	31.2
445.gobmk	4	1037	40.5	1034	40.6	**1036**	**40.5**	4	**923**	**45.5**	921	45.6	925	45.4
456.hmmer	4	368	101	368	101	**368**	**101**	4	368	101	368	101	**368**	**101**
458.sjeng	4	1444	33.5	**1442**	**33.6**	1442	33.6	4	1277	37.9	1276	37.9	**1276**	**37.9**
462.libquantum	4	980	84.5	1169	70.9	**1166**	**71.1**	4	980	84.5	1169	70.9	**1166**	**71.1**
464.h264ref	4	1168	75.8	1169	75.7	**1169**	**75.7**	4	1168	75.8	1169	75.7	**1169**	**75.7**
471.omnetpp	4	1261	19.8	**1259**	**19.8**	1259	19.9	4	1213	20.6	**1212**	**20.6**	1212	20.6
473.astar	4	**726**	**38.7**	723	38.9	727	38.6	4	**707**	**39.7**	704	39.9	709	39.6
483.xalancbmk	4	838	32.9	838	32.9	**838**	**32.9**	4	821	33.6	823	33.5	**822**	**33.6**

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
```

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

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Base Portability Flags (Continued)

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

456.hmmer: basepeak = yes

Continued on next page

Peak Optimization Flags (Continued)

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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