SPEC® CINT2006 Result

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Hewlett-Packard Company

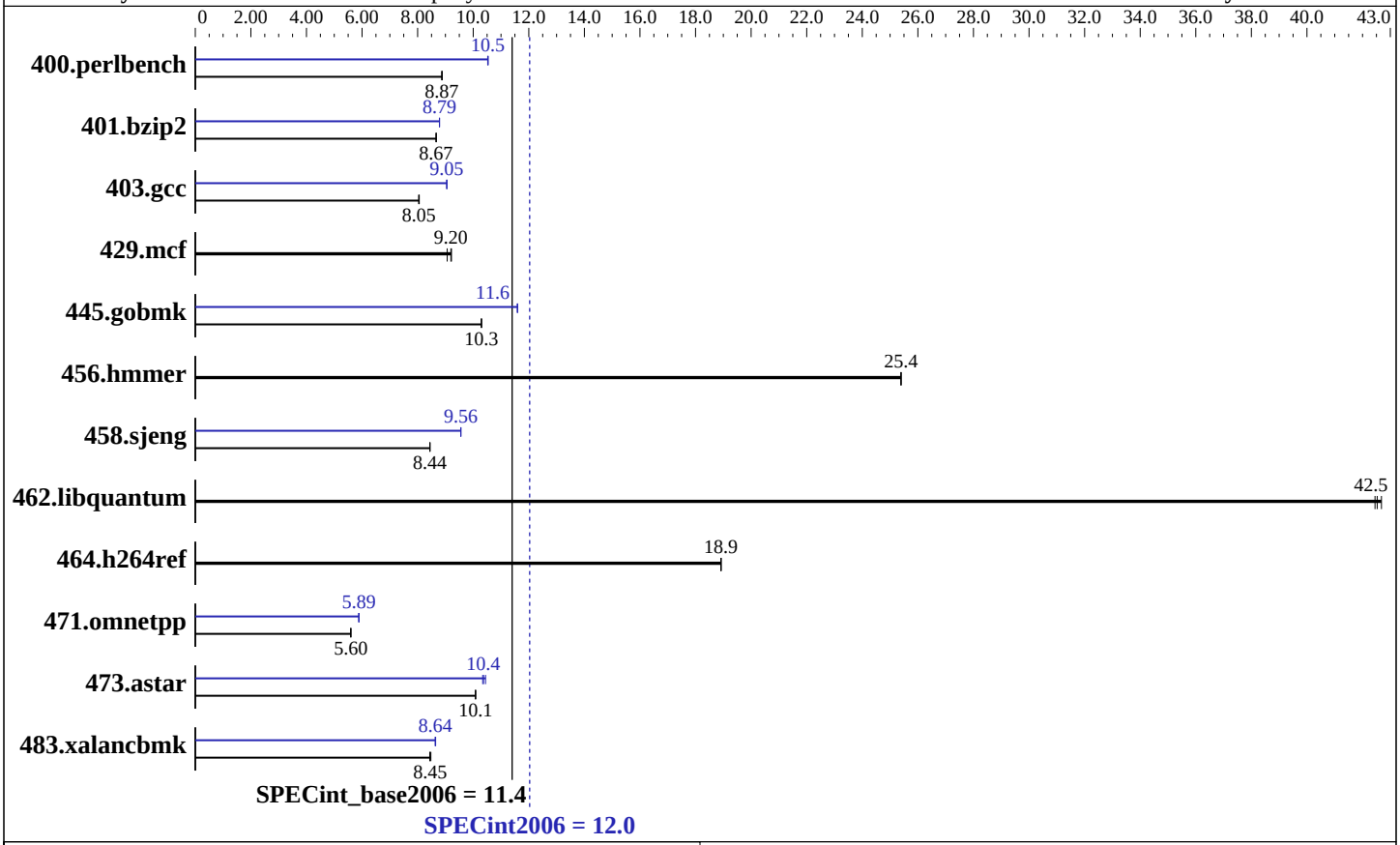
HP Integrity rx2620
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECint®2006 = 12.0

SPECint_base2006 = 11.4

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:	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:	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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1099	8.89	**1101**	**8.87**	1102	8.87	**928**	**10.5**	929	10.5	927	10.5
401.bzip2	**1113**	**8.67**	1113	8.67	1114	8.67	1098	8.79	**1098**	**8.79**	1099	8.78
403.gcc	1001	8.04	999	8.06	**1000**	**8.05**	**889**	**9.05**	889	9.05	890	9.05
429.mcf	989	9.22	1006	9.06	**992**	**9.20**	989	9.22	1006	9.06	**992**	**9.20**
445.gobmk	**1019**	**10.3**	1019	10.3	1018	10.3	905	11.6	**905**	**11.6**	905	11.6
456.hmmer	**367**	**25.4**	367	25.4	367	25.4	**367**	**25.4**	367	25.4	367	25.4
458.sjeng	1433	8.44	**1433**	**8.44**	1433	8.44	**1266**	**9.56**	1267	9.55	1266	9.56
462.libquantum	488	42.4	485	42.7	**487**	**42.5**	488	42.4	485	42.7	**487**	**42.5**
464.h264ref	1170	18.9	1170	18.9	**1170**	**18.9**	1170	18.9	1170	18.9	**1170**	**18.9**
471.omnetpp	1117	5.60	1117	5.60	**1117**	**5.60**	1061	5.89	**1061**	**5.89**	1063	5.88
473.astar	696	10.1	696	10.1	**696**	**10.1**	**677**	**10.4**	679	10.3	672	10.4
483.xalancbmk	814	8.48	**817**	**8.45**	818	8.44	799	8.63	**799**	**8.64**	798	8.65

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

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