SPEC® CINT2006 Result
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Hewlett-Packard Company

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

SPECint®_rate2006 =   38.9

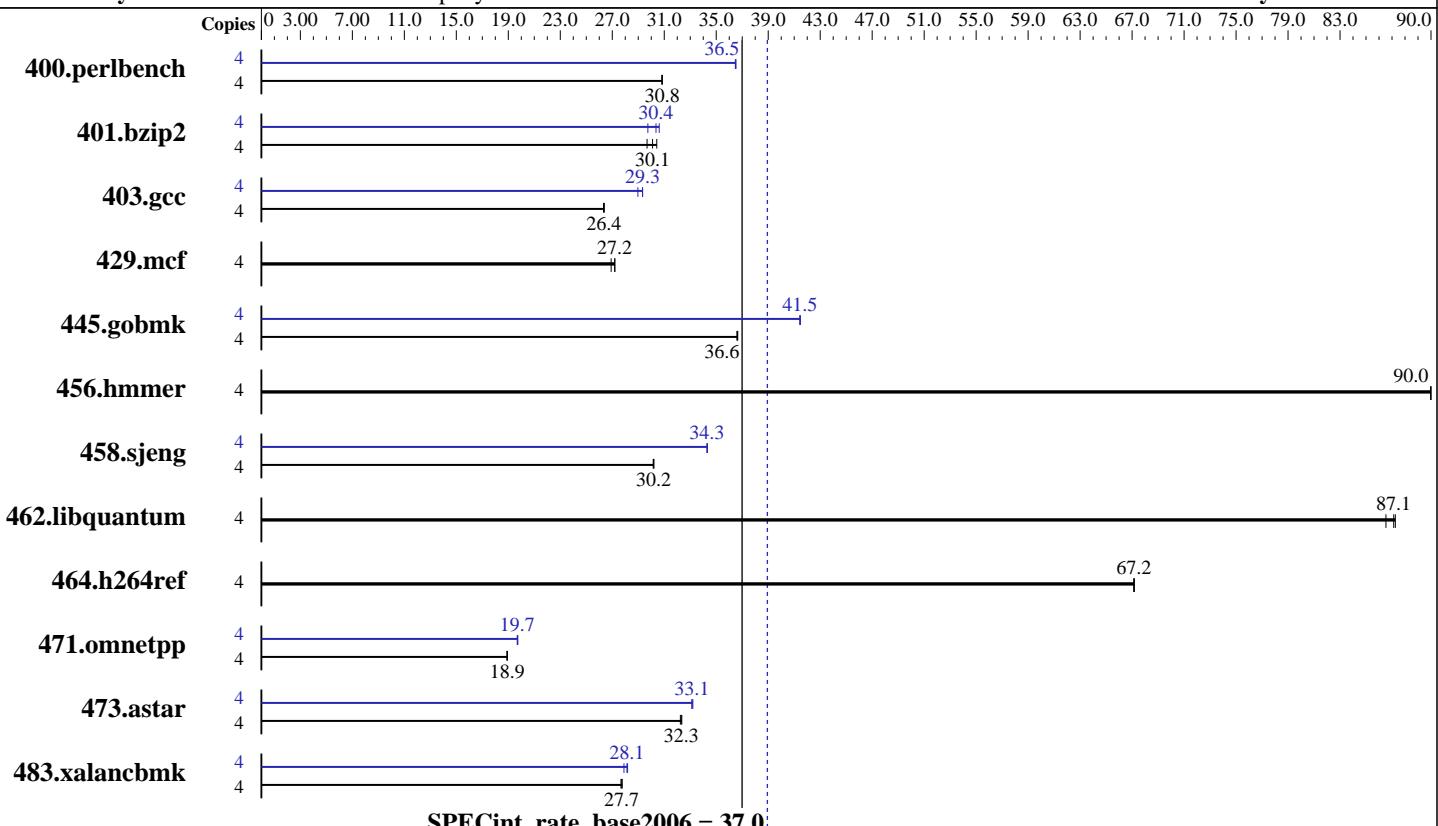SPECint_rate_base2006 = 37.0

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

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

Copies 0 3.00 7.00 11.0 15.0 19.0 23.0 27.0 31.0 35.0 39.0 43.0 47.0 51.0 55.0 59.0 63.0 67.0 71.0 75.0 79.0 83.0 90.0

Benchmark	Copies	Value
400.perlbench	4	36.5
	4	30.8
401.bzip2	4	30.4
	4	30.1
403.gcc	4	29.3
	4	26.4
429.mcf	4	27.2
445.gobmk	4	41.5
	4	36.6
456.hmmer	4	90.0
458.sjeng	4	34.3
	4	30.2
462.libquantum	4	87.1
464.h264ref	4	67.2
471.omnetpp	4	19.7
	4	18.9
473.astar	4	33.1
	4	32.3
483.xalancbmk	4	28.1
	4	27.7

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Hardware

CPU Name: Dual-Core Intel Itanium 2 9020
CPU Characteristics: 1.4GHz/12MB, 533MHz FSB
CPU MHz: 1400
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: 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 Copies	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Copies	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
400.perlbench	4	**1267**	**30.8**	1267	30.8	1268	30.8	4	1070	36.5	**1071**	**36.5**	1072	36.5
401.bzip2	4	1301	29.7	**1282**	**30.1**	1269	30.4	4	**1271**	**30.4**	1261	30.6	1298	29.7
403.gcc	4	1223	26.3	**1221**	**26.4**	1221	26.4	4	**1098**	**29.3**	1098	29.3	1111	29.0
429.mcf	4	1355	26.9	**1342**	**27.2**	1341	27.2	4	1355	26.9	**1342**	**27.2**	1341	27.2
445.gobmk	4	1145	36.7	**1146**	**36.6**	1147	36.6	4	1013	41.4	**1012**	**41.5**	1012	41.5
456.hmmer	4	**415**	**90.0**	415	90.0	415	90.0	4	**415**	**90.0**	415	90.0	415	90.0
458.sjeng	4	1605	30.1	1603	30.2	**1604**	**30.2**	4	1410	34.3	1411	34.3	**1411**	**34.3**
462.libquantum	4	950	87.3	958	86.5	**951**	**87.1**	4	950	87.3	958	86.5	**951**	**87.1**
464.h264ref	4	1318	67.2	1319	67.1	**1318**	**67.2**	4	1318	67.2	1319	67.1	**1318**	**67.2**
471.omnetpp	4	**1322**	**18.9**	1322	18.9	1322	18.9	4	**1269**	**19.7**	1269	19.7	1267	19.7
473.astar	4	**869**	**32.3**	868	32.4	871	32.2	4	846	33.2	848	33.1	**848**	**33.1**
483.xalancbmk	4	**995**	**27.7**	994	27.8	998	27.7	4	**981**	**28.1**	979	28.2	989	27.9

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

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Base Portability Flags (Continued)

```
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

 456.hmmer: basepeak = yes
```

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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.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 other inquiries, please contact webmaster@spec.org.

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