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 |

<table>
<thead>
<tr>
<th>Test Code</th>
<th>Result</th>
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<tbody>
<tr>
<td>400.perlbench</td>
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<td>429.mcf</td>
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<tr>
<td>462.libquantum</td>
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<tr>
<td>471.omnetpp</td>
<td>5.34</td>
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<tr>
<td>473.astar</td>
<td>8.66</td>
</tr>
<tr>
<td>483.xalancbmk</td>
<td>7.35</td>
</tr>
</tbody>
</table>

**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
- 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
- Memory: 16 GB (6x2GB DIMMs, AD124A 8-DIMM memory carrier)
- Disk Subsystem: 2x73GB 10K RPM SAS (mirrored)
- Other Cache: 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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SPECint2006 = 10.6
SPECint_base2006 = 10.0

Results Table

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<thead>
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<th>Ratio</th>
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</table>

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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.