SPEC® CINT2006 Result

NEC Corporation
Express5800/120Ri-2
(Intel Xeon processor 5130)

SPEClnt®2006 = 15.5
SPEClnt_base2006 = 14.1

Hardware

CPU Name: Intel Xeon 5130
CPU Characteristics: 2.00 GHz, 4 MB L2, 1333 MHz bus
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1.2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1x73.2 GB SAS, 15000RPM
Other Hardware: None

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp for x86_64
Compiler: Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070426 Package ID: l_cc_p_10.0.023
Auto Parallel: No
File System: ext2
System State: Multiuser, Runlevel 3
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: MicroQuill SmartHeap library 8.1
binutils-2.17.tar.gz, Version 2.17

CPU2006 license: 9006
Test sponsor: NEC Corporation
Tested by: NEC Corporation
Test date: Oct-2007
Hardware Availability: May-2007
Tested by: NEC Corporation
Software Availability: Jun-2007
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Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode

The Express5800/120Rg-1(Intel Xeon Prosessor 5130) and the Express5800/120Ri-2(Intel Xeon Prosessor 5130) models are electronically equivalent. The results have been measured on a Express5800/120Ri-2(Intel Xeon Prosessor 5130) model.

Base Compiler Invocation

C benchmarks:
   icc

C++ benchmarks:
   icpc

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
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<td>722</td>
<td>13.5</td>
<td>709</td>
<td>13.8</td>
<td>708</td>
<td>13.8</td>
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<td>16.3</td>
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<td>16.4</td>
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<td>401.bzip2</td>
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<td>10.5</td>
<td>928</td>
<td>10.4</td>
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<td>14.6</td>
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<td>14.6</td>
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<td>456.hmmer</td>
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<td>888</td>
<td>10.5</td>
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<td>10.5</td>
<td>702</td>
<td>13.3</td>
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<tr>
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<td>1003</td>
<td>12.1</td>
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<td>393</td>
<td>17.5</td>
</tr>
</tbody>
</table>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.
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Hardware Availability: May-2007
Software Availability: Jun-2007

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
- fast

C++ benchmarks:
- -xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
- -L/opt/SmartHeap_8.1/lib -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc
401.bzip2: /opt/intel/cce/10.0.023/bin/icc
- -L/opt/intel/cce/10.0.023/lib
- -I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
- -L/opt/intel/cce/10.0.023/lib
- -I/opt/intel/cce/10.0.023/include

C++ benchmarks:
icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

Continued on next page
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Peak Portability Flags (Continued)
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:
400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast
403.gcc: basepeak = yes
429.mcf: -fast -prefetch
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec_div -ansi-alias
456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0
-prefetch -opt-streaming-stores always
464.h264ref: Same as 456.hmmer

C++ benchmarks:
471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec_div -ansi-alias -W1,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap
473.astar: Same as 471.omnetpp
483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca
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The flags file that was used to format this result can be browsed at

You can also download the XML flags source by saving the following link:

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