Acer Incorporated
Altos R380 F2 (Intel Xeon E5-2690)

SPECi%20int%20rate2006%20=%20690
SPECi%20nt%20_rate%20base2006%20=%20661

CPU2006%20license:%2097
Test%20sponsor:%20Acer%20Incorporated
Tested%20by:%20Acer%20Incorporated

Test%20date:%20Mar-2013
Hardware%20Availability:%20Apr-2013
Software%20Availability:%20Jun-2012

Acer%20Incorporated

Altos%20R380%20F2%20(Intel%20Xeon%20E5-2690)

SPECint_rate2006%20=%20690
SPECint_rate_base2006%20=%20661

Hardware

CPU%20Name:%20Intel%20Xeon%20E5-2690
CPU%20Characteristics:%20Intel%20Turbo%20Boost%20Technology%20up%20to%203.80%20GHz
CPU%20MHz:%202900
FPU:%20Integrated
CPU(s)%20enabled:%2016%20cores, 2%20chips, 8%20cores/chip, 2%20threads/core
CPU(s)%20orderable:%202%20chip
Primary%20Cache:%2032%20KB%20I%20+32%20KB%20D%20on%20chip%20per%20core
Secondary%20Cache:%20256%20KB%20I+D%20on%20chip%20per%20core
L3%20Cache:%2020%20MB%20I+D%20on%20chip%20per%20chip
Other%20Cache:%20None
Memory:%20128%20GB%20(16%20x%208%20GB%202Rx4%20PC3-12800R-11,%20ECC)
Disk%20Subsystem:%201%20x%201%20TB%20SATA,%207200%20RPM
Other%20Hardware:%20None

Software

Operating%20System:%20Red%20Hat%20Enterprise%20Linux%20Server%20release%206.3
(Santiago)
2.6.32-279.el6.x86_64
Compiler:%20C/C++%20Version%2012.1.0.225%20of%20Intel%20C++%20Studio%20XE
for%20Linux
Auto%20Parallel:%20No
File%20System:%20ext4
System%20State:%20Run%20level%203%20(multi-user)
Base%20Pointers:%2032-bit
Peak%20Pointers:%2032/64-bit
Other%20Software:%20Microquill%20SmartHeap%20V9.01
Results Table

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<th>Ratio</th>
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<td>324</td>
<td>681</td>
</tr>
</tbody>
</table>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Platform Notes

Sysinfo program /usr/cpu2006/config/sysinfo.rev6800
$Rev: 6800 $ $Date:: 2011-10-11 #$ 6f2ebdff5032aaa42e583f96b07f99d3
running on altorsr380f2 Sat Mar 16 09:42:56 2013

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see: http://www.spec.org/cpu2006/Docs/config.html#sysinfo

From /proc/cpuinfo
  model name : Intel(R) Xeon(R) CPU E5-2690 0 @ 2.90GHz
  2 "physical id"s (chips)
  32 "processors"
  cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
    cpu cores : 8
    siblings : 16

Continued on next page
Acer Incorporated
Altos R380 F2 (Intel Xeon E5-2690)

SPECint_rate2006 = 690
SPECint_rate_base2006 = 661

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Platform Notes (Continued)

physical 0: cores 0 1 2 3 4 5 6 7
physical 1: cores 0 1 2 3 4 5 6 7

cache size : 20480 KB

From /proc/meminfo
MemTotal: 132114000 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

/usr/bin/lsb_release -d
Red Hat Enterprise Linux Server release 6.3 (Santiago)

From /etc/*release* /etc/*version*
redhat-release: Red Hat Enterprise Linux Server release 6.3 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.3 (Santiago)

uname -a:
Linux altosr380f2 2.6.32-279.el6.x86_64 #1 SMP Wed Jun 13 18:24:36 EDT 2012
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Mar 15 11:50

SPEC is set to: /usr/cpu2006
Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/vg_altosr380f2-lv_root
ext4 913G 50G 817G 6% /

Additional information from dmidecode:
Memory:
16x Hynix HMT31GR7CFR4C-PB 8 GB 1600 MHz 2 rank

(End of data from sysinfo program)

General Notes

Environment variables set by runspec before the start of the run:
LD_LIBRARY_PATH = "/usr/cpu2006/libs/32:/usr/cpu2006/libs/64"

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB
memory using RHEL5.5
Transparent Huge Pages enabled with:
echo always > /sys/kernel/mm/redhat_transparent_hugepage/enabled
Filesystem page cache cleared with:
echo 1 > /proc/sys/vm/drop_caches
runcspec command invoked through numactl i.e.:
umactl --interleave=all runspec <etc>
Altos R360 F2 and Altos R380 F2 are electronically equivalent.
This result was measured on Altos R380 F2.
Acer Incorporated
Altos R380 F2 (Intel Xeon E5-2690)

SPECint_rate2006 = 690
SPECint_rate_base2006 = 661

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Mar-2013
Hardware Availability: Apr-2013
Software Availability: Jun-2012

Base Compiler Invocation

C benchmarks:
icc -m32
C++ benchmarks:
icpc -m32

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-xAVX -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3
C++ benchmarks:
-xAVX -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3
-Wl,-z,muldefs -L/smartheap -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc -m32
400.perlbench: icc -m64
401.bzip2: icc -m64
456.hmmer: icc -m64
458.sjeng: icc -m64
C++ benchmarks:
icpc -m32
Acer Incorporated

Altos R380 F2 (Intel Xeon E5-2690)

SPECint_rate2006 = 690
SPECint_rate_base2006 = 661

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Mar-2013
Hardware Availability: Apr-2013
Software Availability: Jun-2012

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -auto-ilp32

401.bzip2: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch
-auto-ilp32 -ansi-alias

403.gcc: -xAVX -ipo -O3 -no-prec-div

429.mcf: basepeak = yes

445.gobmk: -xAVX(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
-ansi-alias -opt-mem-layout-trans=3

456.hmmer: -xAVX -ipo -O3 -no-prec-div -unroll2 -auto-ilp32

458.sjeng: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4
-auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -ansi-alias
-opt-ra-region-strategy=block -Wl,-z,muldefs
-L/smartheap -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes
### SPEC CINT2006 Result

**Acer Incorporated**  
Altos R380 F2 (Intel Xeon E5-2690)  

| SPECint_rate2006 | 690 |
| SPECint_rate_base2006 | 661 |

**CPU2006 license:** 97  
**Test sponsor:** Acer Incorporated  
**Tested by:** Acer Incorporated  

| Test date | Mar-2013 |
| Hardware Availability | Apr-2013 |
| Software Availability | Jun-2012 |

#### Peak Other Flags

**C benchmarks:**

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at [http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html](http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html)

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

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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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