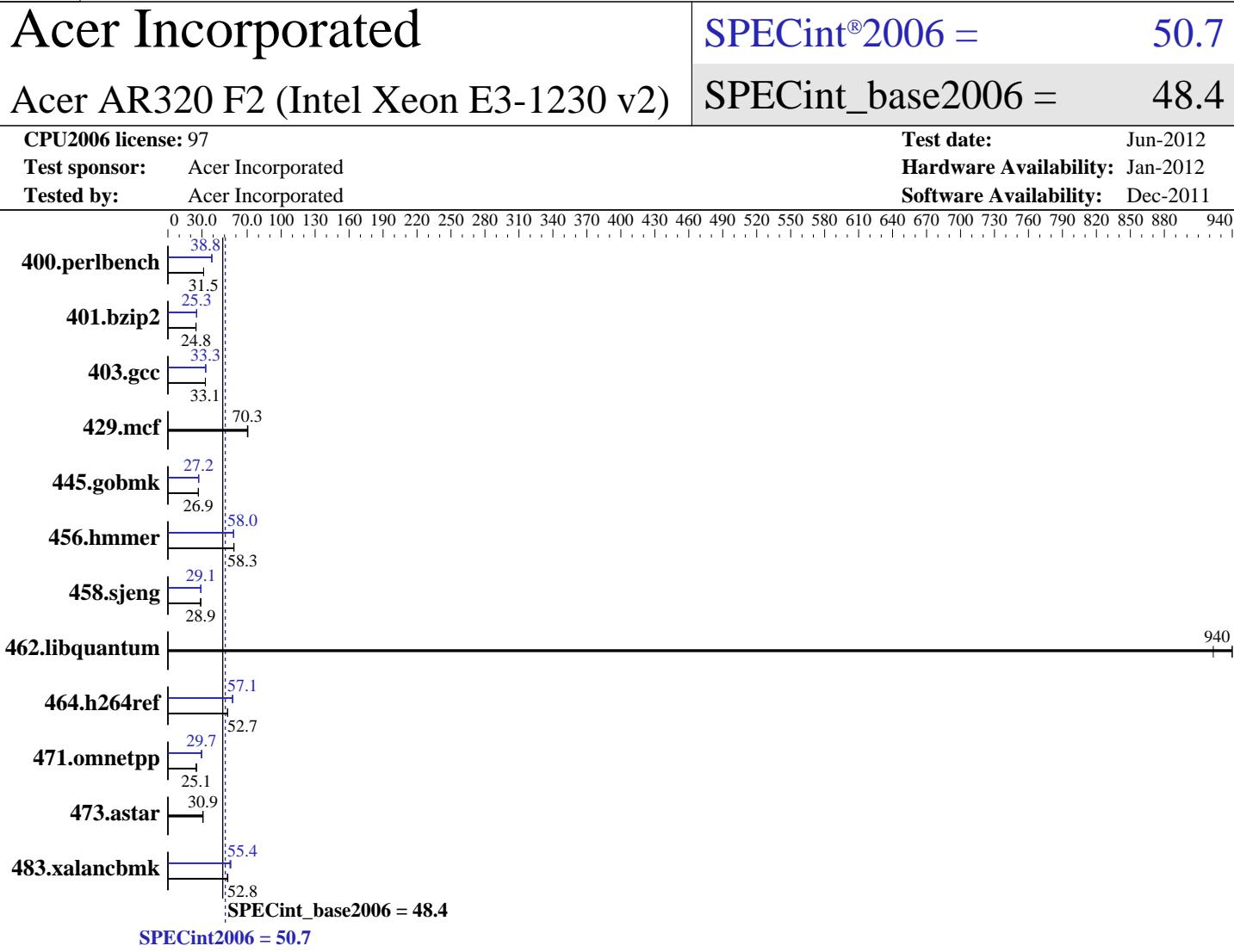




SPEC® CINT2006 Result

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Hardware		Software
CPU Name:	Intel Xeon E3-1230 v2	Operating System: Red Hat Enterprise Linux Server release 6.1 (Santiago) 2.6.32-131.0.15.el6.x86_64
CPU Characteristics:	Intel Turbo Boost Technology up to 3.70 GHz	Compiler: C/C++: Version 12.1.0.225 of Intel C++ Studio XE for Linux
CPU MHz:	3300	Auto Parallel: Yes
FPU:	Integrated	File System: ext4
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core	System State: Run level 3 (multi-user)
CPU(s) orderable:	1 chip	Base Pointers: 32/64-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers: 32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software: Microquill SmartHeap V9.01
L3 Cache:	8 MB I+D on chip per chip	
Other Cache:	None	
Memory:	16 GB (2 x 8 GB 2Rx8 PC3-10600E-9,ECC)	
Disk Subsystem:	1 x 500 GB SATA, 7200 RPM	
Other Hardware:	None	



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SPECint2006 = 50.7

Acer AR320 F2 (Intel Xeon E3-1230 v2)

SPECint_base2006 = 48.4

CPU2006 license: 97

Test date: Jun-2012

Test sponsor: Acer Incorporated

Hardware Availability: Jan-2012

Tested by: Acer Incorporated

Software Availability: Dec-2011

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	310	31.5	310	31.5	310	31.5	252	38.8	252	38.8	252	38.8
401.bzip2	389	24.8	389	24.8	389	24.8	381	25.3	381	25.4	381	25.3
403.gcc	243	33.1	243	33.1	243	33.1	241	33.3	241	33.4	242	33.3
429.mcf	130	70.3	129	70.7	130	70.3	130	70.3	129	70.7	130	70.3
445.gobmk	390	26.9	390	26.9	390	26.9	386	27.2	386	27.2	386	27.2
456.hmmer	160	58.3	160	58.3	160	58.3	161	58.0	161	58.0	161	58.0
458.sjeng	418	28.9	418	28.9	418	29.0	416	29.1	416	29.1	416	29.1
462.libquantum	22.0	940	22.0	940	22.4	923	22.0	940	22.0	940	22.4	923
464.h264ref	420	52.7	420	52.7	420	52.7	387	57.1	387	57.1	387	57.1
471.omnetpp	249	25.1	250	25.0	248	25.2	210	29.7	210	29.8	211	29.6
473.astar	226	31.0	227	30.9	228	30.9	226	31.0	227	30.9	228	30.9
483.xalancbmk	131	52.5	131	52.8	130	52.9	124	55.5	125	55.4	126	54.8

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

Operating System Notes

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

Platform Notes

```
Sysinfo program /usr/cpu2006/config/sysinfo.rev6800
$Rev: 6800 $ $Date::: 2011-10-11 #$
running on localhost.localdomain Fri Jun 15 19:14:09 2012
```

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 E3-1230 V2 @ 3.30GHz
        1 "physical id"s (chips)
        8 "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 : 4
        siblings : 8
        physical 0: cores 0 1 2 3
cache size : 8192 KB
```

```
From /proc/meminfo
MemTotal:      16300896 kB
HugePages_Total: 0
```

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Platform Notes (Continued)

Hugepagesize: 2048 kB

```
/usr/bin/lsb_release -d
Red Hat Enterprise Linux Server release 6.1 (Santiago)
```

```
From /etc/*release* /etc/*version*
redhat-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server
```

```
uname -a:
Linux localhost.localdomain 2.6.32-131.0.15.el6.x86_64 #1 SMP Tue May 10
15:42:40 EDT 2011 x86_64 x86_64 x86_64 GNU/Linux
```

run-level 3 Jun 15 19:12 last=5

```
SPEC is set to: /usr/cpu2006
Filesystem      Type   Size  Used Avail Use% Mounted on
/dev/mapper/VolGroup-lv_root
                  ext4    50G   42G   5.2G  90%  /
```

Additional information from dmidecode:

```
Memory:
2x Hynix/Hyundai HMT41GU7MFR8A-H9 8 GB 1333 MHz 2 rank
```

(End of data from sysinfo program)

General Notes

Environment variables set by runspec before the start of the run:

KMP_AFFINITY = "granularity=fine,scatter"

LD_LIBRARY_PATH = "/usr/cpu2006/libs/32:/usr/cpu2006/libs/64"

OMP_NUM_THREADS = "4"

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB memory using RHEL6.1

Transparent Huge Pages enabled with:

```
echo always > /sys/kernel/mm/redhat_transparent_hugepage/enabled
runspec command invoked through numactl i.e.:
numactl --interleave=all runspec <etc>
```

Base Compiler Invocation

C benchmarks:

```
icc -m64
```

C++ benchmarks:

```
icpc -m64
```



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Base Portability Flags

```
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
 401.bzip2: -DSPEC_CPU_LP64
 403.gcc: -DSPEC_CPU_LP64
 429.mcf: -DSPEC_CPU_LP64
 445.gobmk: -DSPEC_CPU_LP64
 456.hammer: -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
 473.astar: -DSPEC_CPU_LP64
 483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
```

Base Optimization Flags

C benchmarks:

```
-xAVX -ipo -O3 -no-prec-div -parallel -opt-prefetch -auto-p32
```

C++ benchmarks:

```
-xAVX -ipo -O3 -no-prec-div -opt-prefetch -auto-p32 -Wl,-z,muldefs
-L/smartheap -lsmartheap64
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks (except as noted below):

```
icc -m64
```

```
400.perlbench: icc -m32
```

```
445.gobmk: icc -m32
```

```
464.h264ref: icc -m32
```

C++ benchmarks (except as noted below):

```
icpc -m32
```

```
473.astar: icpc -m64
```



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CPU2006 license: 97	Test date:	Jun-2012
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Tested by: Acer Incorporated	Software Availability:	Dec-2011

Peak Portability Flags

```

400.perlbench: -DSPEC_CPU_LINUX_IA32
 401.bzip2: -DSPEC_CPU_LP64
   403.gcc: -DSPEC_CPU_LP64
   429.mcf: -DSPEC_CPU_LP64
 456.hmmer: -DSPEC_CPU_LP64
 458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
   473.astar: -DSPEC_CPU_LP64
 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) -opt-prefetch
               -ansi-alias

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

403.gcc: -xAVX -ipo -O3 -no-prec-div -inline-calloc
          -opt-malloc-options=3 -auto-ilp32

429.mcf: basepeak = yes

445.gobmk: -xAVX(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
               -ansi-alias

456.hmmer: -xAVX -ipo -O3 -no-prec-div -unroll12 -auto-ilp32
               -ansi-alias

458.sjeng: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
               -no-prec-div(pass 2) -prof-use(pass 2) -unroll14

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) -unroll12
               -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)
               -opt-ra-region-strategy=block           -ansi-alias
               -Wl,-z,muldefs -L/smartheap -lsmartheap

```

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Software Availability: Dec-2011

Peak Optimization Flags (Continued)

473.astar: basepeak = yes

483.xalancbmk: -xAVX -ipo -O3 -no-prec-div -opt-prefetch -ansi-alias
-Wl,-z,muldefs -L/smartheap -lsmartheap

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>

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

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.xml>

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

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