SPEC® CFP2006 Result
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Acer Incorporated

Acer AR320 F2 (Intel Core i3-2100)

SPECfp®2006 = 48.9

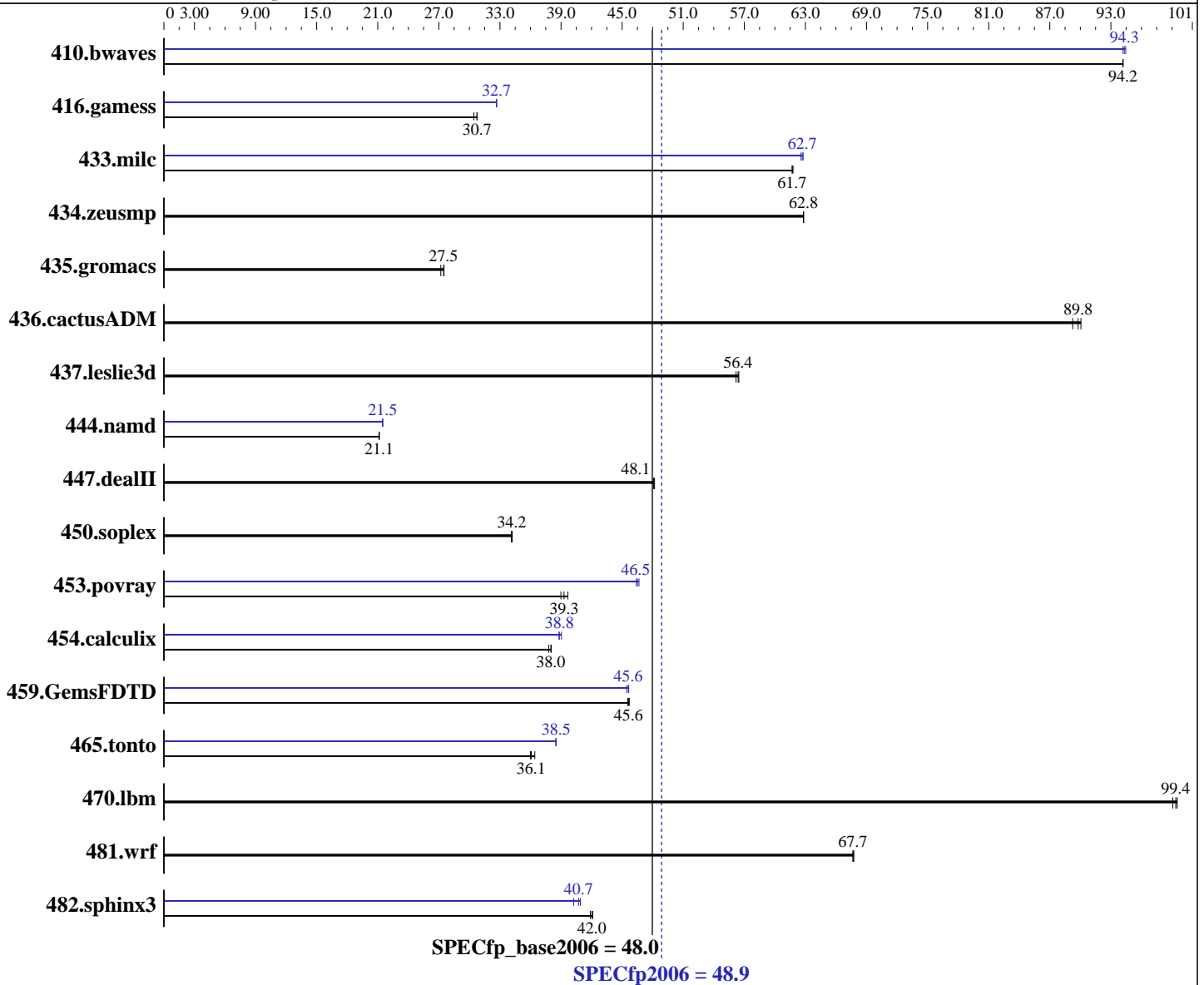### SPECfp_base2006 = 48.0

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

Test date: Mar-2012
Hardware Availability: Jan-2012
Software Availability: Dec-2011

410.bwaves	94.3 / 94.2
416.gamess	32.7 / 30.7
433.milc	62.7 / 61.7
434.zeusmp	62.8
435.gromacs	27.5
436.cactusADM	89.8
437.leslie3d	56.4
444.namd	21.5 / 21.1
447.dealII	48.1
450.soplex	34.2
453.povray	46.5 / 39.3
454.calculix	38.8 / 38.0
459.GemsFDTD	45.6 / 45.6
465.tonto	38.5 / 36.1
470.lbm	99.4
481.wrf	67.7
482.sphinx3	40.7 / 42.0

SPECfp_base2006 = 48.0

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Hardware
CPU Name: Intel Core i3-2100
CPU Characteristics:
CPU MHz: 3100
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip, 2 threads/core
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core
Continued on next page

Software
Operating System: Red Hat Enterprise Linux Server release 6.1 (Santiago)
2.6.32-131.0.15.el6.x86_64
Compiler: C/C++: Version 12.1.0.225 of Intel C++ Studio XE for Linux;
Fortran: Version 12.1.0.225 of Intel Fortran Studio XE for Linux
Auto Parallel: Yes
File System: ext4
Continued on next page

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L3 Cache:	3 MB I+D on chip per chip	System State:	Run level 3 (multi-user)
Other Cache:	None	Base Pointers:	64-bit
Memory:	8 GB (2 x 4 GB 2Rx8 PC3-10600E-9,ECC)	Peak Pointers:	32/64-bit
Disk Subsystem:	1 x 500 GB SATA, 7200RPM	Other Software:	None
Other Hardware:	None		

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	144	94.2	144	94.2	**144**	**94.2**	144	94.2	**144**	**94.3**	144	94.5
416.gamess	637	30.8	643	30.4	**637**	**30.7**	**599**	**32.7**	600	32.6	599	32.7
433.milc	**149**	**61.7**	149	61.8	149	61.7	**146**	**62.7**	147	62.6	146	62.8
434.zeusmp	145	62.8	**145**	**62.8**	145	62.8	145	62.8	**145**	**62.8**	145	62.8
435.gromacs	**260**	**27.5**	260	27.5	263	27.2	**260**	**27.5**	260	27.5	263	27.2
436.cactusADM	133	90.1	**133**	**89.8**	134	89.2	133	90.1	**133**	**89.8**	134	89.2
437.leslie3d	167	56.2	**167**	**56.4**	166	56.5	167	56.2	**167**	**56.4**	166	56.5
444.namd	379	21.1	**379**	**21.1**	379	21.1	374	21.5	**373**	**21.5**	373	21.5
447.dealII	237	48.2	238	48.1	**238**	**48.1**	237	48.2	238	48.1	**238**	**48.1**
450.soplex	244	34.2	**244**	**34.2**	244	34.1	244	34.2	**244**	**34.2**	244	34.1
453.povray	**135**	**39.3**	136	39.0	134	39.7	114	46.7	115	46.4	**114**	**46.5**
454.calculix	217	38.0	218	37.8	**217**	**38.0**	**212**	**38.8**	211	39.0	213	38.8
459.GemsFDTD	**233**	**45.6**	232	45.7	233	45.5	232	45.6	**233**	**45.6**	233	45.5
465.tonto	273	36.0	270	36.4	**273**	**36.1**	255	38.5	256	38.5	**256**	**38.5**
470.lbm	138	99.5	139	99.1	**138**	**99.4**	138	99.5	139	99.1	**138**	**99.4**
481.wrf	**165**	**67.7**	165	67.8	165	67.7	**165**	**67.7**	165	67.8	165	67.7
482.sphinx3	465	41.9	463	42.1	**464**	**42.0**	484	40.3	477	40.9	**479**	**40.7**

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 $ $Date:: 2011-10-11 #$ 6f2ebdff5032aaa42e583f96b07f99d3
    running on localhost.localdomain Sat Mar 3 01:16:46 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) Core(TM) i3-2100 CPU @ 3.10GHz
                        Continued on next page

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Platform Notes (Continued)

```
      1 "physical id"s (chips)
      4 "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 : 2
      siblings  : 4
      physical 0: cores 0 1
   cache size : 3072 KB

 From /proc/meminfo
   MemTotal:        8046960 kB
   HugePages_Total:       0
   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 Mar 3 01:15

 SPEC is set to: /usr/cpu2006
   Filesystem     Type     Size  Used Avail Use% Mounted on
   /dev/mapper/VolGroup-lv_root
                  ext4      50G   17G   31G  36% /

 Additional information from dmidecode:
   Memory:
   2x Nanya NT4GC72B8PG0NF-DI 4 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 = "2"

  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
```

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General Notes (Continued)

```
runspec command invoked through numactl i.e.:
numactl --interleave=all runspec <etc>
```

Base Compiler Invocation

C benchmarks:
```
icc    -m64
```

C++ benchmarks:
```
icpc   -m64
```

Fortran benchmarks:
```
ifort -m64
```

Benchmarks using both Fortran and C:
```
icc    -m64 ifort -m64
```

Base Portability Flags

```
    410.bwaves: -DSPEC_CPU_LP64
    416.gamess: -DSPEC_CPU_LP64
      433.milc: -DSPEC_CPU_LP64
    434.zeusmp: -DSPEC_CPU_LP64
   435.gromacs: -DSPEC_CPU_LP64 -nofor_main
  436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
   437.leslie3d: -DSPEC_CPU_LP64
      444.namd: -DSPEC_CPU_LP64
     447.dealII: -DSPEC_CPU_LP64
     450.soplex: -DSPEC_CPU_LP64
     453.povray: -DSPEC_CPU_LP64
   454.calculix: -DSPEC_CPU_LP64 -nofor_main
  459.GemsFDTD: -DSPEC_CPU_LP64
      465.tonto: -DSPEC_CPU_LP64
       470.lbm: -DSPEC_CPU_LP64
       481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
    482.sphinx3: -DSPEC_CPU_LP64
```

Base Optimization Flags

C benchmarks:
```
-xAVX -ipo -O3 -no-prec-div -static -parallel -opt-prefetch
-ansi-alias
```

C++ benchmarks:
```
-xAVX -ipo -O3 -no-prec-div -static -opt-prefetch -ansi-alias
```

Acer Incorporated	$SPECfp2006 =$	48.9
Acer AR320 F2 (Intel Core i3-2100)	$SPECfp\_base2006 =$	48.0

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Base Optimization Flags (Continued)

Fortran benchmarks:
```
-xAVX -ipo -O3 -no-prec-div -static -parallel -opt-prefetch
```

Benchmarks using both Fortran and C:
```
-xAVX -ipo -O3 -no-prec-div -static -parallel -opt-prefetch
-ansi-alias
```

Peak Compiler Invocation

C benchmarks:
```
icc    -m64
```

C++ benchmarks:
```
icpc   -m64
```

Fortran benchmarks:
```
ifort -m64
```

Benchmarks using both Fortran and C:
```
icc    -m64 ifort -m64
```

Peak Portability Flags

```
Same as Base Portability Flags
```

Peak Optimization Flags

C benchmarks:

```
   433.milc: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
             -no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32
             -ansi-alias
```

```
   470.lbm: basepeak = yes
```

```
482.sphinx3: -xAVX -ipo -O3 -no-prec-div -unroll2 -ansi-alias
             -parallel
```

C++ benchmarks:

```
  444.namd: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
            -no-prec-div(pass 2) -prof-use(pass 2) -fno-alias
            -auto-ilp32
```

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Peak Optimization Flags (Continued)

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xAVX -ipo -O3 -no-prec-div -opt-prefetch -parallel
-static

416.gamess: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2
-inline-level=0 -scalar-rep- -static

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2
-inline-level=0 -opt-prefetch -parallel

465.tonto: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -inline-calloc
-opt-malloc-options=3 -auto -unroll4

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: -xAVX -ipo -O3 -no-prec-div -auto-ilp32 -ansi-alias

481.wrf: basepeak = yes

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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