



# SPEC® CFP2006 Result

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## Acer Incorporated

SPECfp®2006 = 48.8

## Acer AT310 F2 (Intel Core i3-2100)

SPECfp\_base2006 = 47.9

CPU2006 license: 97

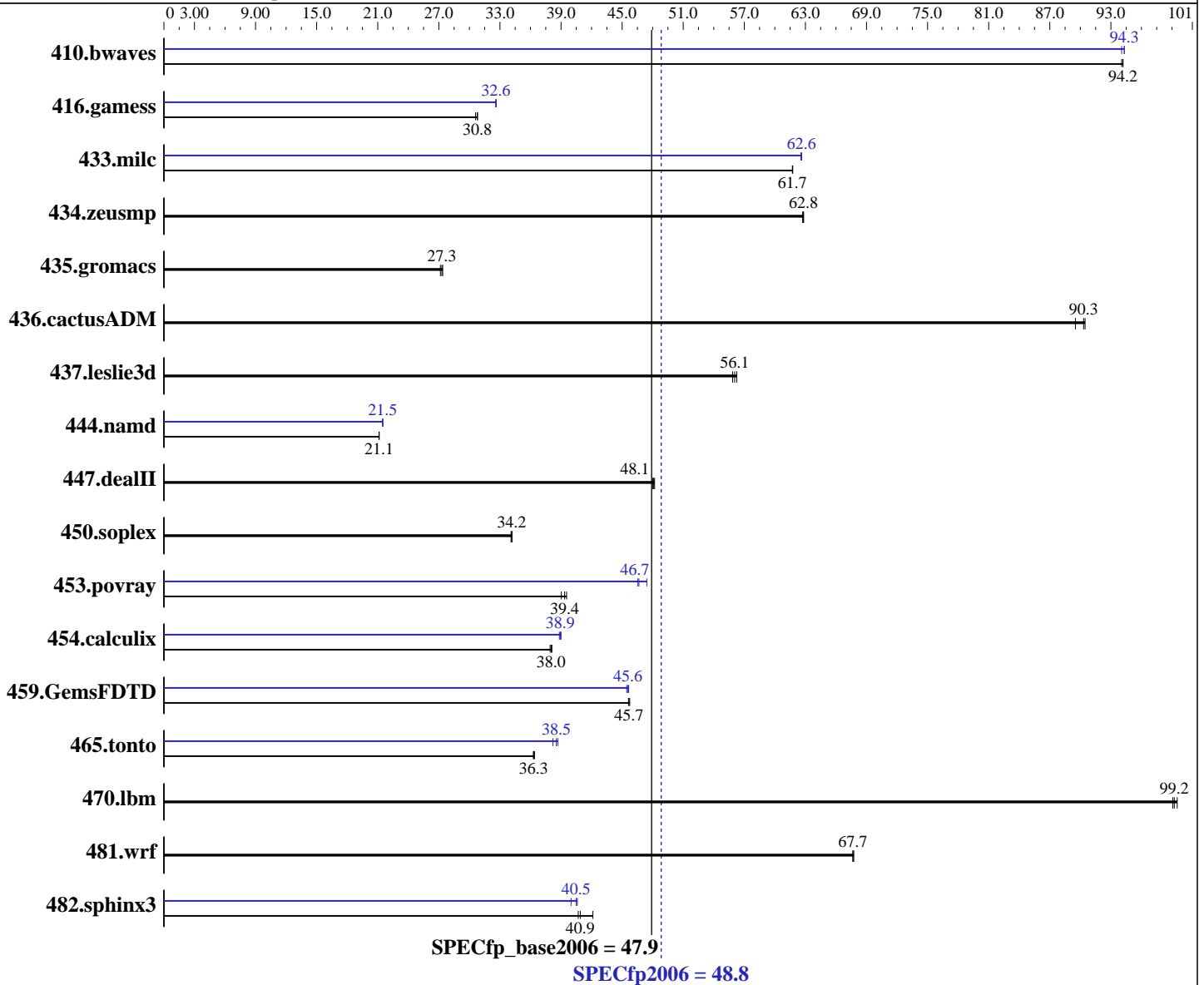
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jan-2012

Hardware Availability: Jan-2012

Software Availability: Dec-2011



### 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

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### Software

Operating System: Red Hat Enterprise Linux Server release 6.1  
 Kernel 2.6.32-131.0.15.el6.x86\_64-default  
 Compiler: C/C++/Fortran: Version 12.1.0.225 of Intel Compiler XE  
 Build 20110803  
 Auto Parallel: Yes  
 File System: ext3  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit

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

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	144	94.1	144	94.2	<b>144</b>	<b>94.2</b>	<b>144</b>	<b>94.3</b>	144	94.1	144	94.3
416.gamess	<b>636</b>	<b>30.8</b>	636	30.8	640	30.6	601	32.6	600	32.6	<b>601</b>	<b>32.6</b>
433.milc	<b>149</b>	<b>61.7</b>	149	61.7	149	61.8	147	62.6	147	62.6	<b>147</b>	<b>62.6</b>
434.zeusmp	145	62.8	145	62.7	<b>145</b>	<b>62.8</b>	145	62.8	145	62.7	<b>145</b>	<b>62.8</b>
435.gromacs	261	27.4	263	27.2	<b>262</b>	<b>27.3</b>	261	27.4	263	27.2	<b>262</b>	<b>27.3</b>
436.cactusADM	132	90.5	133	89.5	<b>132</b>	<b>90.3</b>	132	90.5	133	89.5	<b>132</b>	<b>90.3</b>
437.leslie3d	<b>168</b>	<b>56.1</b>	167	56.3	168	55.9	<b>168</b>	<b>56.1</b>	167	56.3	168	55.9
444.namd	380	21.1	<b>380</b>	<b>21.1</b>	379	21.1	<b>373</b>	<b>21.5</b>	373	21.5	373	21.5
447.dealII	<b>238</b>	<b>48.1</b>	237	48.2	238	48.0	<b>238</b>	<b>48.1</b>	237	48.2	238	48.0
450.soplex	245	34.1	244	34.2	<b>244</b>	<b>34.2</b>	245	34.1	244	34.2	<b>244</b>	<b>34.2</b>
453.povray	135	39.5	136	39.0	<b>135</b>	<b>39.4</b>	<b>114</b>	<b>46.7</b>	114	46.5	112	47.4
454.calculix	217	38.1	218	37.9	<b>217</b>	<b>38.0</b>	212	38.8	<b>212</b>	<b>38.9</b>	212	39.0
459.GemsFDTD	233	45.6	<b>232</b>	<b>45.7</b>	232	45.7	233	45.5	232	45.6	<b>233</b>	<b>45.6</b>
465.tonto	270	36.4	<b>271</b>	<b>36.3</b>	271	36.3	<b>255</b>	<b>38.5</b>	254	38.7	258	38.2
470.lbm	139	99.1	138	99.5	<b>138</b>	<b>99.2</b>	139	99.1	138	99.5	<b>138</b>	<b>99.2</b>
481.wrf	165	67.8	165	67.7	<b>165</b>	<b>67.7</b>	165	67.8	165	67.7	<b>165</b>	<b>67.7</b>
482.sphinx3	<b>477</b>	<b>40.9</b>	463	42.1	479	40.7	487	40.0	480	40.6	<b>481</b>	<b>40.5</b>

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 Wed Jan 4 10:08:21 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
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```



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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 Jan 4 10:07

SPEC is set to: /usr/cpu2006
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/mapper/VolGroup-lv_root
  ext4         50G    27G   21G   57% /

Additional information from dmidecode:

(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 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>

```



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## 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.lelie3d: -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

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



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## 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

447.dealIII: 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

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## Peak Optimization Flags (Continued)

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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 For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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