

# SPEC® CFP2006 Result

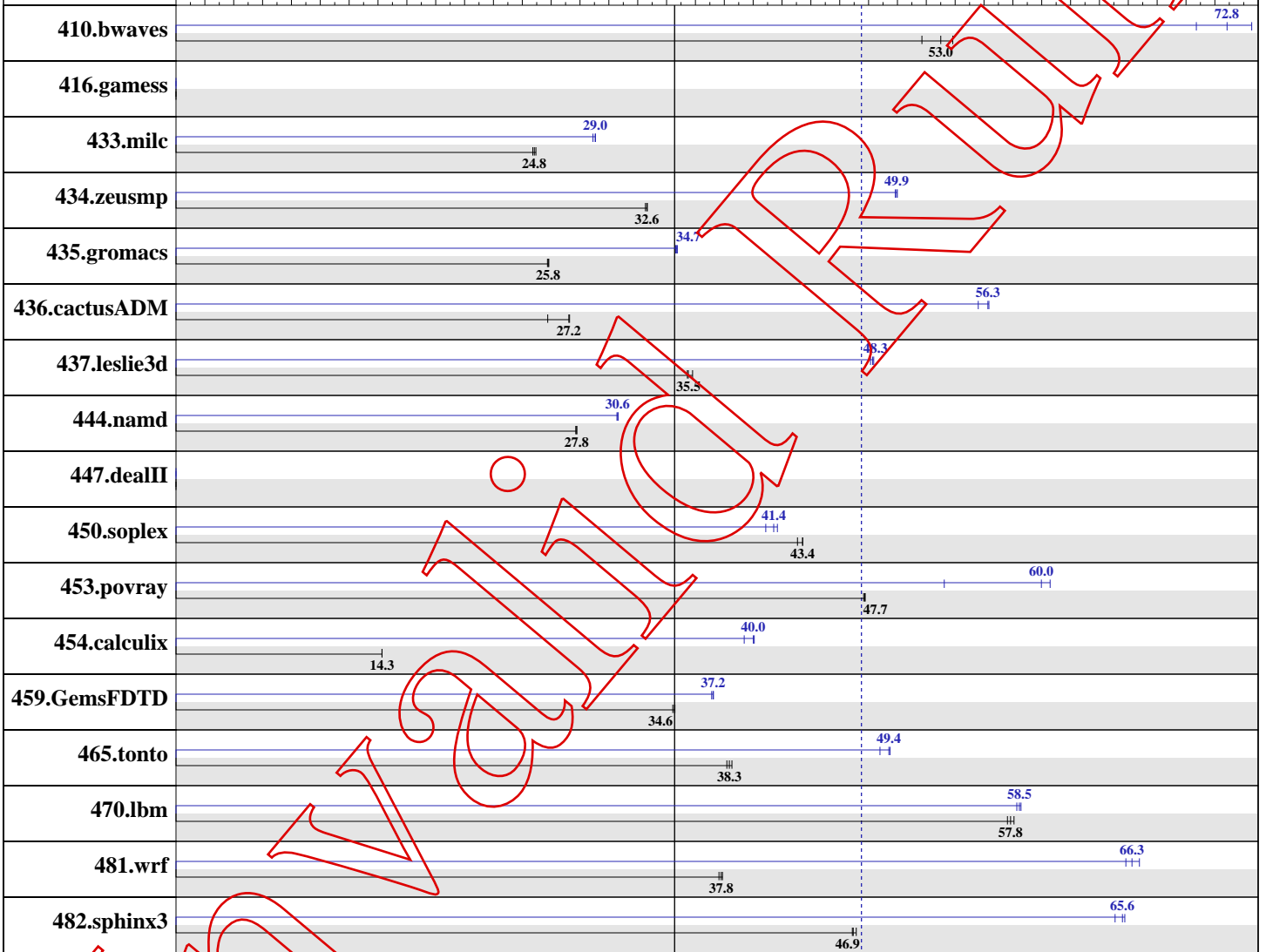
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SPECfp®2006 = 47.5

SPECfp\_base2006 = 34.6

CPU2006 license #: 0002991 | Test sponsor: | Test date: Jun 16, 2021 | Hardware Availability: Now | Software Availability: Now

0 2.00 4.00 6.00 8.00 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 75.0



SPECfp\_base2006 = 34.6

SPECfp2006 = 47.5

## Hardware

CPU Name: --  
CPU Characteristics: --  
CPU MHz: 1174.954  
FPU: Integrated  
CPU(s) enabled: 4 cores, -1 chips, -1 cores/chip, -1 threads/core  
CPU(s) orderable: --  
Primary Cache: --  
Secondary Cache: 6144 KB  
L3 Cache: --  
Other Cache: --  
Memory: 16280404 kB

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## Software

Operating System: Linux 5.3.11-100.fc29.x86\_64  
Compiler: gcc version 12.0.0 20210617 (experimental) (GCC)  
Auto Parallel: --  
File System: --  
System State: multiuser  
Base Pointers: --  
Peak Pointers: --  
Other Software: --

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## Hardware (Continued)

Disk Subsystem:  
Other Hardware:

## Errors

'reportable' flag not set during run

416.gamess base did not have enough runs!

447.dealII base did not have enough runs!

416.gamess peak did not have enough runs!

447.dealII peak did not have enough runs!

Unknown flags were used! See

<http://www.spec.org/auto/cpu2006/Docs/runspec.html#flagsurl>  
for information about how to get rid of this error.

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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	263	51.7	<b>256</b>	<b>53.0</b>	252	53.8	182	74.6	192	70.7	<b>187</b>	<b>72.8</b>
416.gamess	0.00	0.00					0.00	0.00				
433.milc	<b>370</b>	<b>24.8</b>	368	24.9	371	24.7	<b>316</b>	<b>29.0</b>	316	29.1	318	28.9
434.zeusmp	280	32.5	279	32.7	<b>279</b>	<b>32.6</b>	182	50.0	183	49.8	<b>182</b>	<b>49.9</b>
435.gromacs	277	25.7	<b>277</b>	<b>25.8</b>	276	25.8	<b>286</b>	<b>34.7</b>	206	34.6	205	34.7
436.cactusADM	464	25.8	<b>439</b>	<b>27.2</b>	438	27.3	212	56.3	215	55.6	<b>212</b>	<b>56.3</b>
437.leslie3d	265	35.4	<b>265</b>	<b>35.5</b>	263	35.8	<b>195</b>	<b>48.3</b>	195	48.1	194	48.4
444.namd	289	27.7	<b>289</b>	<b>27.8</b>	289	27.8	262	30.6	<b>262</b>	<b>30.6</b>	262	30.6
447.dealII	0.00	0.00					0.00	0.00				
450.soplex	192	43.4	194	43.1	<b>192</b>	<b>43.4</b>	200	41.7	<b>201</b>	<b>41.4</b>	204	40.9
453.povray	112	47.7	111	47.8	<b>111</b>	<b>47.7</b>	87.8	60.6	<b>88.7</b>	<b>60.0</b>	99.9	53.2
454.calculix	<b>578</b>	<b>14.3</b>	578	14.3	578	14.3	<b>206</b>	<b>40.0</b>	209	39.4	206	40.1
459.GemsFDTD	307	34.6	<b>307</b>	<b>34.6</b>	308	34.4	285	37.2	286	37.1	<b>285</b>	<b>37.2</b>
465.tonto	<b>257</b>	<b>38.3</b>	258	38.2	255	38.5	199	49.5	202	48.8	<b>199</b>	<b>49.4</b>
470.lbm	<b>238</b>	<b>57.8</b>	238	57.6	237	58.1	236	58.3	<b>235</b>	<b>58.5</b>	235	58.6
481.wrf	297	37.6	295	37.9	<b>296</b>	<b>37.8</b>	167	66.8	<b>169</b>	<b>66.3</b>	170	65.8
482.sphinx3	<b>415</b>	<b>46.9</b>	416	46.9	413	47.1	<b>297</b>	<b>65.6</b>	299	65.1	296	65.8

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

## General Notes

Base flags: -O2 -mtune=generic

Peak flags: -Ofast -mtune=corei7 -march=core-avx2 -flto

PORTABILITY=-DSPEC CPU\_LP64 is applied to all benchmarks.

## Base Unknown Flags

410.bwaves: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch"  
"-fno-stack-arrays" (in FPORTABILITY)  
"-O2 -mtune=generic" (in FOPTIMIZE)

433.milc: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon"  
"-O2 -mtune=generic" (in COPTIMIZE)

434.zeusmp: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch"  
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435.gromacs: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
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## Base Unknown Flags (Continued)

435.gromacs (continued):

"-O2 -mtune=generic" (in FOPTIMIZE)

"-O2 -mtune=generic" (in COPTIMIZE)

436.cactusADM: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

"-O2 -mtune=generic" (in FOPTIMIZE)

"-O2 -mtune=generic" (in COPTIMIZE)

437.leslie3d: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

"-O2 -mtune=generic" (in FOPTIMIZE)

444.namd: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)

"-O2 -mtune=generic" (in CXXOPTIMIZE)

450.soplex: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)

"-O2 -mtune=generic" (in CXXOPTIMIZE)

453.povray: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)

"-O2 -mtune=generic" (in CXXOPTIMIZE)

454.calculix: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

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"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

"-O2 -mtune=generic" (in FOPTIMIZE)

"-O2 -mtune=generic" (in COPTIMIZE)

459.GemsFDTD: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

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465.tonto: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

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470.lbm: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)

"-O2 -mtune=generic" (in COPTIMIZE)

481.wrf: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)

"-fno-stack-arrays" (in FPORTABILITY)

"-O2 -mtune=generic" (in FOPTIMIZE)

"-O2 -mtune=generic" (in COPTIMIZE)

482.sphinx3: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)

"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)

"-O2 -mtune=generic" (in COPTIMIZE)

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## Base Unknown Flags (Continued)

## Peak Unknown Flags

410.bwaves: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
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433.milc: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon"  
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434.zeusmp: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
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482.sphinx3: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon"  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch"  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in FOPTIMIZE)  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

459.GemsFDTD: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch"  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in FOPTIMIZE)

465.tonto: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch"  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in FOPTIMIZE)

470.lbm: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon"  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

481.wrf: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon"  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch"  
"-fno-stack-arrays" (in FPORTABILITY)  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in FOPTIMIZE)  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

482.sphinx3: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon"  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

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