

# SPEC® CFP2006 Result

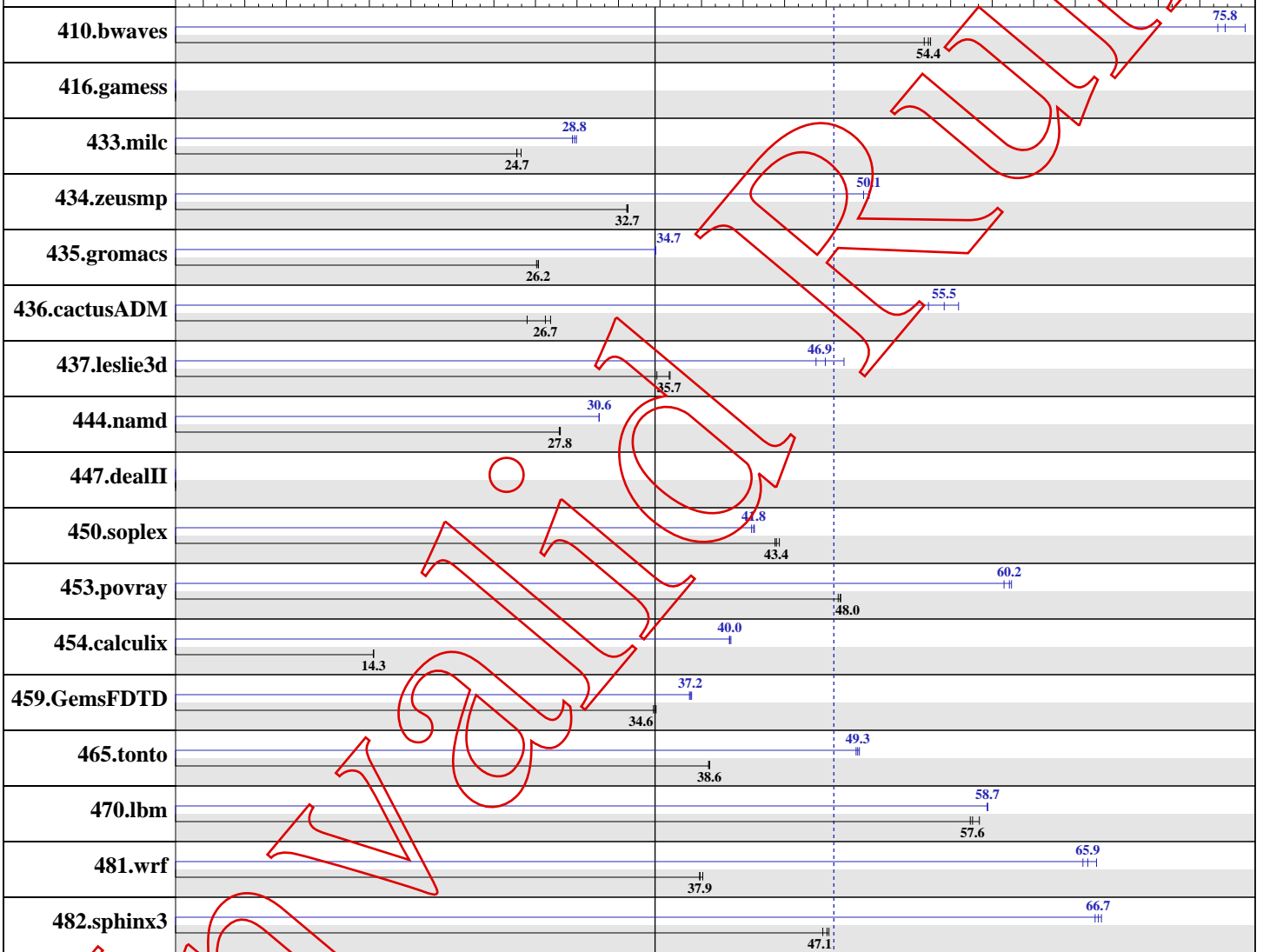
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SPECfp®2006 = 47.6

SPECfp\_base2006 = 34.6

CPU2006 license #: 0002991 | Test sponsor: | Test date: May 31, 2021 | Hardware Availability: Now | Software Availability: Now

0 2.00 5.00 8.00 11.0 14.0 17.0 20.0 23.0 26.0 29.0 32.0 35.0 38.0 41.0 44.0 47.0 50.0 53.0 56.0 59.0 62.0 65.0 68.0 71.0 74.0 78.0



SPECfp\_base2006 = 34.6

SPECfp2006 = 47.6

## Hardware

CPU Name: --  
CPU Characteristics: --  
CPU MHz: 2487.679  
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 20210601 (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	<b><u>250</u></b>	<b><u>54.4</u></b>	249	54.5	251	54.1	180	75.3	176	77.3	<b><u>179</u></b>	<b><u>75.8</u></b>
416.gamess	0.00	0.00					0.00	0.00				
433.milc	368	25.0	<b><u>372</u></b>	<b><u>24.7</u></b>	372	24.6	320	28.7	317	29.0	<b><u>318</u></b>	<b><u>28.8</u></b>
434.zeusmp	278	32.7	279	32.6	<b><u>279</u></b>	<b><u>32.7</u></b>	183	49.7	<b><u>182</u></b>	<b><u>50.1</u></b>	182	50.1
435.gromacs	274	26.1	272	26.2	<b><u>273</u></b>	<b><u>26.2</u></b>	206	34.6	<b><u>206</u></b>	<b><u>34.7</u></b>	206	34.7
436.cactusADM	<b><u>447</u></b>	<b><u>26.7</u></b>	470	25.4	441	27.1	220	54.4	211	56.6	<b><u>215</u></b>	<b><u>55.5</u></b>
437.leslie3d	270	34.8	<b><u>264</u></b>	<b><u>35.7</u></b>	263	35.7	195	48.3	203	46.3	<b><u>200</u></b>	<b><u>46.9</u></b>
444.namd	289	27.7	289	27.8	<b><u>289</u></b>	<b><u>27.8</u></b>	<b><u>262</u></b>	<b><u>30.6</u></b>	262	30.6	262	30.6
447.dealII	0.00	0.00					0.00	0.00				
450.soplex	191	43.6	<b><u>192</u></b>	<b><u>43.4</u></b>	193	43.3	<b><u>200</u></b>	<b><u>41.8</u></b>	200	41.6	199	41.8
453.povray	111	48.1	111	47.9	<b><u>111</u></b>	<b><u>48.0</u></b>	88.1	60.4	88.9	59.9	<b><u>88.3</u></b>	<b><u>60.2</u></b>
454.calculix	<b><u>577</u></b>	<b><u>14.3</u></b>	577	14.3	577	14.3	<b><u>206</u></b>	<b><u>40.0</u></b>	206	40.0	206	40.1
459.GemsFDTD	306	34.7	<b><u>306</u></b>	<b><u>34.6</u></b>	307	34.5	285	37.3	286	37.1	<b><u>285</u></b>	<b><u>37.2</u></b>
465.tonto	256	38.5	<b><u>255</u></b>	<b><u>38.6</u></b>	255	38.6	199	49.4	<b><u>200</u></b>	<b><u>49.3</u></b>	200	49.2
470.lbm	237	58.1	<b><u>239</u></b>	<b><u>57.6</u></b>	239	57.4	<b><u>234</u></b>	<b><u>58.7</u></b>	234	58.7	234	58.6
481.wrf	293	38.1	<b><u>295</u></b>	<b><u>37.9</u></b>	295	37.9	168	66.5	170	65.6	<b><u>169</u></b>	<b><u>65.9</u></b>
482.sphinx3	<b><u>414</u></b>	<b><u>47.1</u></b>	413	47.2	417	46.8	<b><u>292</u></b>	<b><u>66.7</u></b>	291	66.9	293	66.4

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

435.gromacs: "/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"  
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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)

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

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

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

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"-O2 -mtune=generic" (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" (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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## Peak Unknown Flags

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

454.calculix: "/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"  
"-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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