

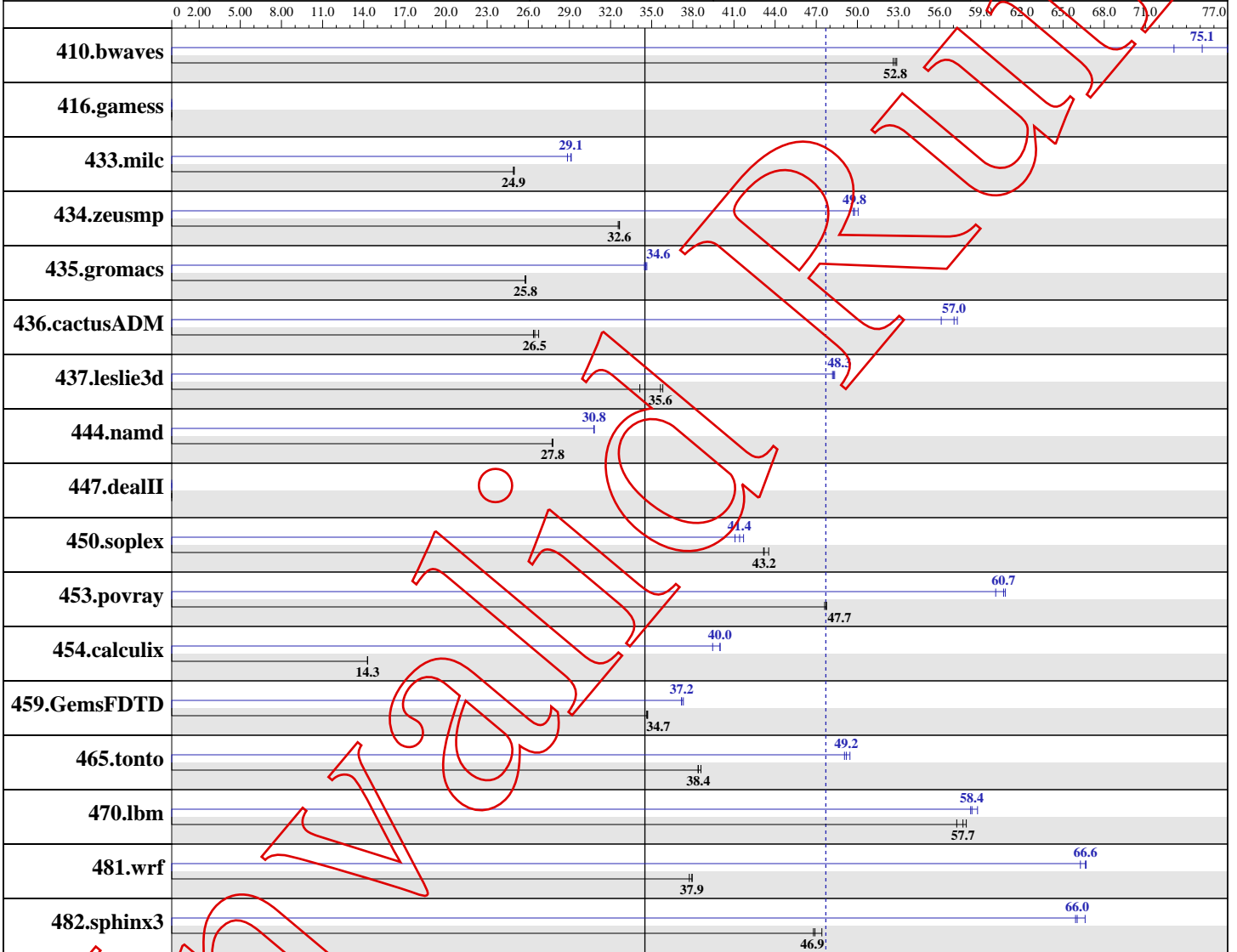
# SPEC® CFP2006 Result

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SPECfp®2006 = 47.7

SPECfp\_base2006 = 34.5

CPU2006 license #: 0002991 Test sponsor: Test date: Jun 19, 2021 Hardware Availability: Now Software Availability: Now



SPECfp\_base2006 = 34.5

SPECfp2006 = 47.7

## Hardware

CPU Name: --  
CPU Characteristics: --  
CPU MHz: 1506.984  
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 20210620 (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>258</u></b>	<b><u>52.8</u></b>	257	52.9	258	52.6	<b><u>181</u></b>	<b><u>75.1</u></b>	177	77.0	186	73.1
416.gamess	0.00	0.00					0.00	0.00				
433.milc	<b><u>368</u></b>	<b><u>24.9</u></b>	368	24.9	367	25.0	<b><u>315</u></b>	<b><u>29.1</u></b>	315	29.1	318	28.9
434.zeusmp	280	32.6	279	32.6	<b><u>279</u></b>	<b><u>32.6</u></b>	<b><u>183</u></b>	<b><u>49.8</u></b>	183	49.7	182	50.1
435.gromacs	277	25.8	<b><u>277</u></b>	<b><u>25.8</u></b>	276	25.8	<b><u>206</u></b>	<b><u>34.6</u></b>	207	34.5	<b><u>207</u></b>	<b><u>34.6</u></b>
436.cactusADM	447	26.8	453	26.4	<b><u>451</u></b>	<b><u>26.5</u></b>	<b><u>209</u></b>	<b><u>57.0</u></b>	209	57.3	213	56.1
437.leslie3d	<b><u>264</u></b>	<b><u>35.6</u></b>	275	34.1	262	35.8	<b><u>195</u></b>	<b><u>48.3</u></b>	195	48.2	194	48.3
444.namd	<b><u>289</u></b>	<b><u>27.8</u></b>	289	27.8	289	27.7	<b><u>260</u></b>	<b><u>30.8</u></b>	260	30.8	260	30.8
447.dealII	0.00	0.00					0.00	0.00				
450.soplex	193	43.2	192	43.5	<b><u>193</u></b>	<b><u>43.2</u></b>	200	41.7	<b><u>201</u></b>	<b><u>41.4</u></b>	203	41.1
453.povray	111	47.8	112	47.6	<b><u>111</u></b>	<b><u>47.7</u></b>	87.5	60.8	<b><u>87.7</u></b>	<b><u>60.7</u></b>	88.5	60.1
454.calculix	<b><u>578</u></b>	<b><u>14.3</u></b>	578	14.3	578	14.3	209	39.4	<b><u>206</u></b>	<b><u>40.0</u></b>	206	40.0
459.GemsFDTD	306	34.6	306	34.7	<b><u>306</u></b>	<b><u>34.7</u></b>	284	37.3	<b><u>285</u></b>	<b><u>37.2</u></b>	285	37.2
465.tonto	256	38.4	255	38.6	<b><u>256</u></b>	<b><u>38.4</u></b>	199	49.5	201	49.1	<b><u>200</u></b>	<b><u>49.2</u></b>
470.lbm	240	57.2	237	57.9	<b><u>238</u></b>	<b><u>57.7</u></b>	<b><u>235</u></b>	<b><u>58.4</u></b>	236	58.3	234	58.8
481.wrf	294	38.0	296	37.7	<b><u>294</u></b>	<b><u>37.9</u></b>	168	66.7	169	66.3	<b><u>168</u></b>	<b><u>66.6</u></b>
482.sphinx3	411	47.4	417	46.8	<b><u>416</u></b>	<b><u>46.9</u></b>	296	65.9	293	66.6	<b><u>295</u></b>	<b><u>66.0</u></b>

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)

"/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)

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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## 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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"-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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450.soplex: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)  
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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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481.wrf: "/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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"-Ofast -mtune=corei7 -march=core-avx2 -flto" (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"  
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"/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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