

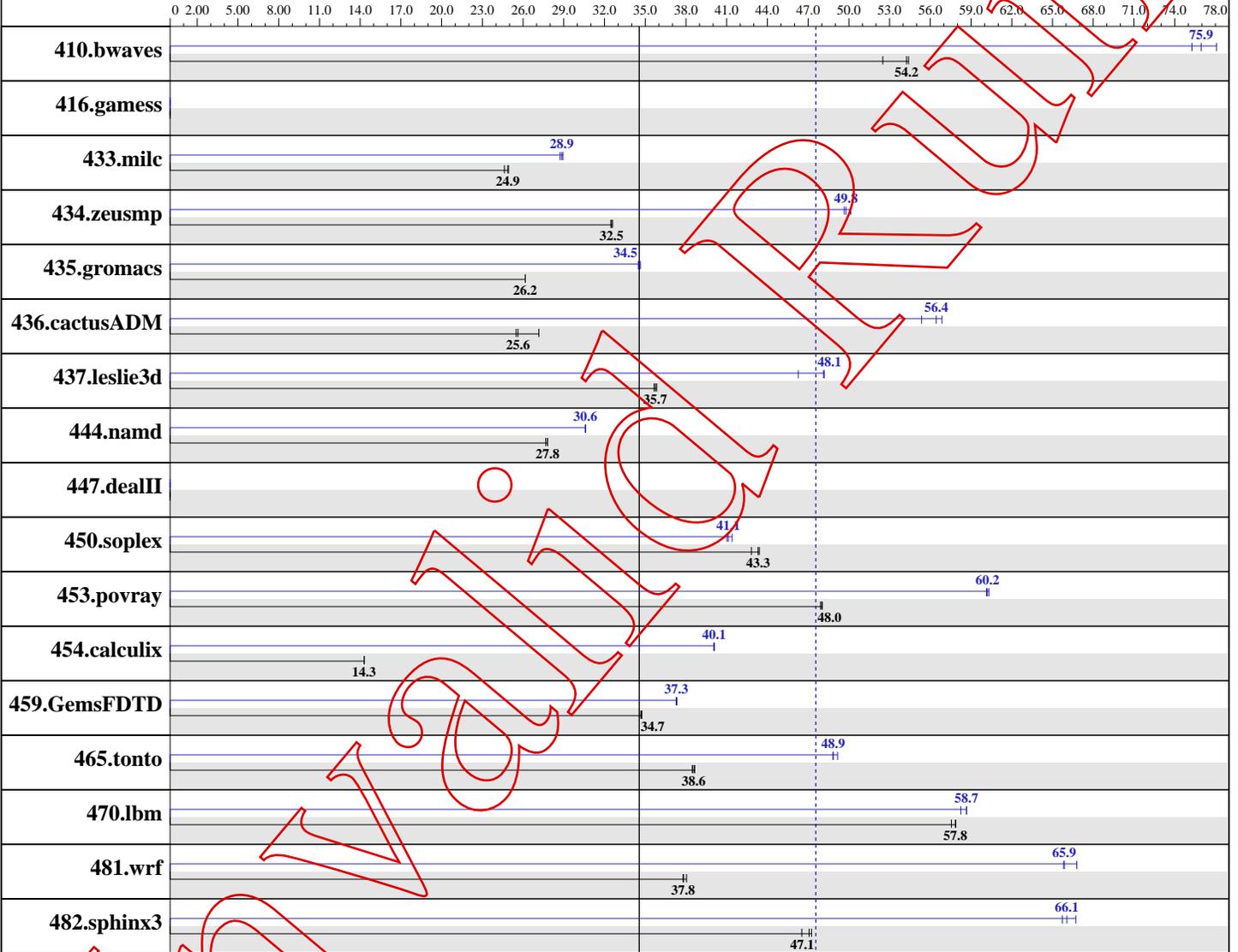
# SPEC® CFP2006 Result

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SPECfp®2006 = 47.6

SPECfp\_base2006 = 34.6

CPU2006 license #: 0002991 | Test sponsor: | Test date: May 30, 2021 | Hardware Availability: Now | Software Availability: Now



SPECfp\_base2006 = 34.6

SPECfp2006 = 47.6

## Hardware

CPU Name: --  
 CPU Characteristics: --  
 CPU MHz: 2181.990  
 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 20210531 (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.

INVALID RUNS

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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	259	52.5	<b>251</b>	<b>54.2</b>	250	54.4	181	75.3	<b>179</b>	<b>75.9</b>	176	77.1
416.gamess	0.00	0.00					0.00	0.00				
433.milc	<b>369</b>	<b>24.9</b>	368	24.9	373	24.6	317	28.9	319	28.7	<b>318</b>	<b>28.9</b>
434.zeusmp	280	32.5	279	32.6	<b>280</b>	<b>32.5</b>	<b>183</b>	<b>49.8</b>	183	49.7	181	50.1
435.gromacs	273	26.2	<b>273</b>	<b>26.2</b>	273	26.2	<b>206</b>	<b>34.7</b>	<b>207</b>	<b>34.5</b>	<b>207</b>	<b>34.5</b>
436.cactusADM	<b>466</b>	<b>25.6</b>	440	27.2	469	25.5	216	55.4	<b>212</b>	<b>56.4</b>	210	56.9
437.leslie3d	262	35.8	<b>263</b>	<b>35.7</b>	264	35.7	<b>195</b>	<b>48.1</b>	195	48.2	203	46.3
444.namd	288	27.8	290	27.7	<b>288</b>	<b>27.8</b>	<b>262</b>	<b>30.6</b>	262	30.6	262	30.6
447.dealII	0.00	0.00					0.00	0.00				
450.soplex	195	42.8	<b>193</b>	<b>43.3</b>	192	43.4	<b>203</b>	<b>41.1</b>	201	41.4	203	41.0
453.povray	<b>111</b>	<b>48.0</b>	111	48.0	111	47.9	<b>88.4</b>	<b>60.2</b>	88.2	60.3	88.5	60.1
454.calculix	<b>577</b>	<b>14.3</b>	577	14.3	577	14.3	206	40.1	<b>206</b>	<b>40.1</b>	206	40.1
459.GemsFDTD	305	34.8	306	34.7	<b>306</b>	<b>34.7</b>	<b>285</b>	<b>37.3</b>	285	37.3	284	37.3
465.tonto	255	38.6	256	38.5	<b>255</b>	<b>38.6</b>	200	49.2	<b>201</b>	<b>48.9</b>	202	48.8
470.lbm	<b>238</b>	<b>57.8</b>	237	57.9	239	57.6	<b>234</b>	<b>58.7</b>	236	58.2	234	58.7
481.wrf	294	38.0	295	37.8	<b>295</b>	<b>37.8</b>	<b>170</b>	<b>65.9</b>	170	65.8	167	66.8
482.sphinx3	412	47.2	<b>414</b>	<b>47.1</b>	419	46.5	297	65.7	<b>295</b>	<b>66.1</b>	292	66.7

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)  
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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)  
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"-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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"-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)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
"-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)  
"/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"  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch"  
"-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"  
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437.leslie3d: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)  
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444.namd: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)  
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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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"-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)  
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"-fno-stack-arrays" (in FPORTABILITY)  
"-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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450.soplex: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)  
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"-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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