

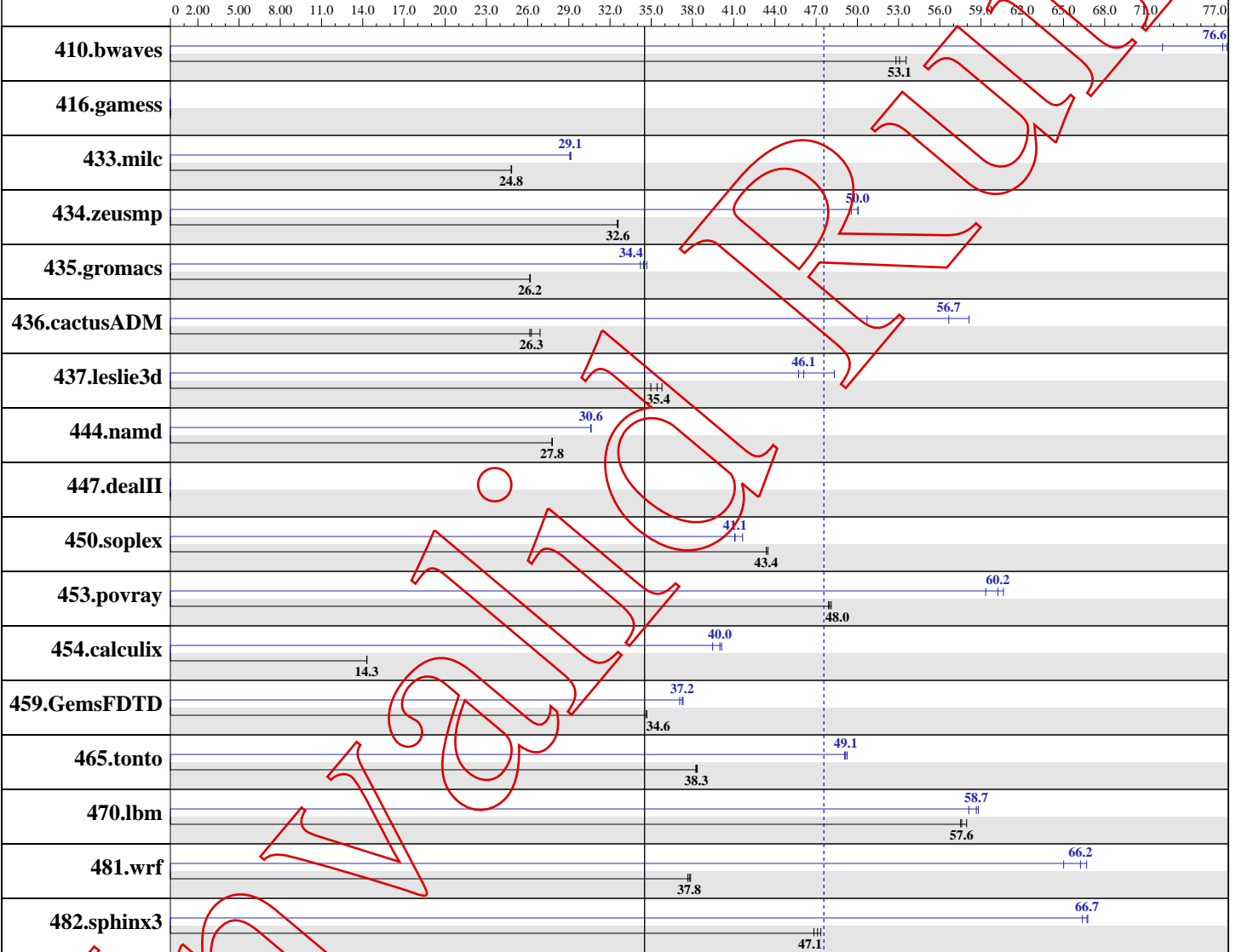
# SPEC® CFP2006 Result

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SPECfp®2006 = 47.6

SPECfp\_base2006 = 34.5

CPU2006 license #: 0002991 | Test sponsor: | Test date: May 25, 2021 | Hardware Availability: Now | Software Availability: Now



SPECfp\_base2006 = 34.5

SPECfp2006 = 47.6

## Hardware

CPU Name: --  
 CPU Characteristics: --  
 CPU MHz: 1488.878  
 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 20210526 (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	<b>256</b>	<b>53.1</b>	254	53.5	257	52.8	188	72.2	177	76.9	<b>177</b>	<b>76.6</b>
416.gamess	0.00	0.00					0.00	0.00				
433.milc	370	24.8	370	24.8	<b>370</b>	<b>24.8</b>	315	29.2	316	29.1	<b>315</b>	<b>29.1</b>
434.zeusmp	<b>279</b>	<b>32.6</b>	280	32.5	279	32.6	184	49.6	182	50.1	<b>182</b>	<b>50.0</b>
435.gromacs	273	26.2	<b>273</b>	<b>26.2</b>	273	26.2	<b>286</b>	<b>34.7</b>	<b>207</b>	<b>34.4</b>	209	34.2
436.cactusADM	457	26.2	444	26.9	<b>455</b>	<b>26.3</b>	236	50.7	<b>211</b>	<b>56.7</b>	206	58.1
437.leslie3d	269	35.0	263	35.8	<b>265</b>	<b>35.4</b>	206	45.7	195	48.3	<b>204</b>	<b>46.1</b>
444.namd	<b>289</b>	<b>27.8</b>	289	27.8	289	27.8	262	30.6	262	30.6	<b>262</b>	<b>30.6</b>
447.dealII	0.00	0.00					0.00	0.00				
450.soplex	192	43.4	192	43.5	<b>192</b>	<b>43.4</b>	<b>203</b>	<b>41.1</b>	200	41.7	203	41.1
453.povray	<b>111</b>	<b>48.0</b>	111	47.9	111	48.1	87.7	60.6	<b>88.3</b>	<b>60.2</b>	89.7	59.3
454.calculix	<b>577</b>	<b>14.3</b>	577	14.3	577	14.3	<b>206</b>	<b>40.0</b>	209	39.5	206	40.1
459.GemsFDTD	<b>306</b>	<b>34.6</b>	308	34.5	306	34.7	286	37.1	<b>285</b>	<b>37.2</b>	284	37.3
465.tonto	<b>257</b>	<b>38.3</b>	257	38.4	257	38.2	<b>200</b>	<b>49.1</b>	200	49.3	201	49.1
470.lbm	237	58.0	<b>239</b>	<b>57.6</b>	239	57.5	236	58.1	<b>234</b>	<b>58.7</b>	234	58.8
481.wrf	295	37.9	297	37.7	<b>296</b>	<b>37.8</b>	<b>169</b>	<b>66.2</b>	167	66.7	172	65.0
482.sphinx3	416	46.8	<b>414</b>	<b>47.1</b>	412	47.3	292	66.8	294	66.4	<b>292</b>	<b>66.7</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)  
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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)  
"/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 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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"-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)  
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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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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)  
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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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