

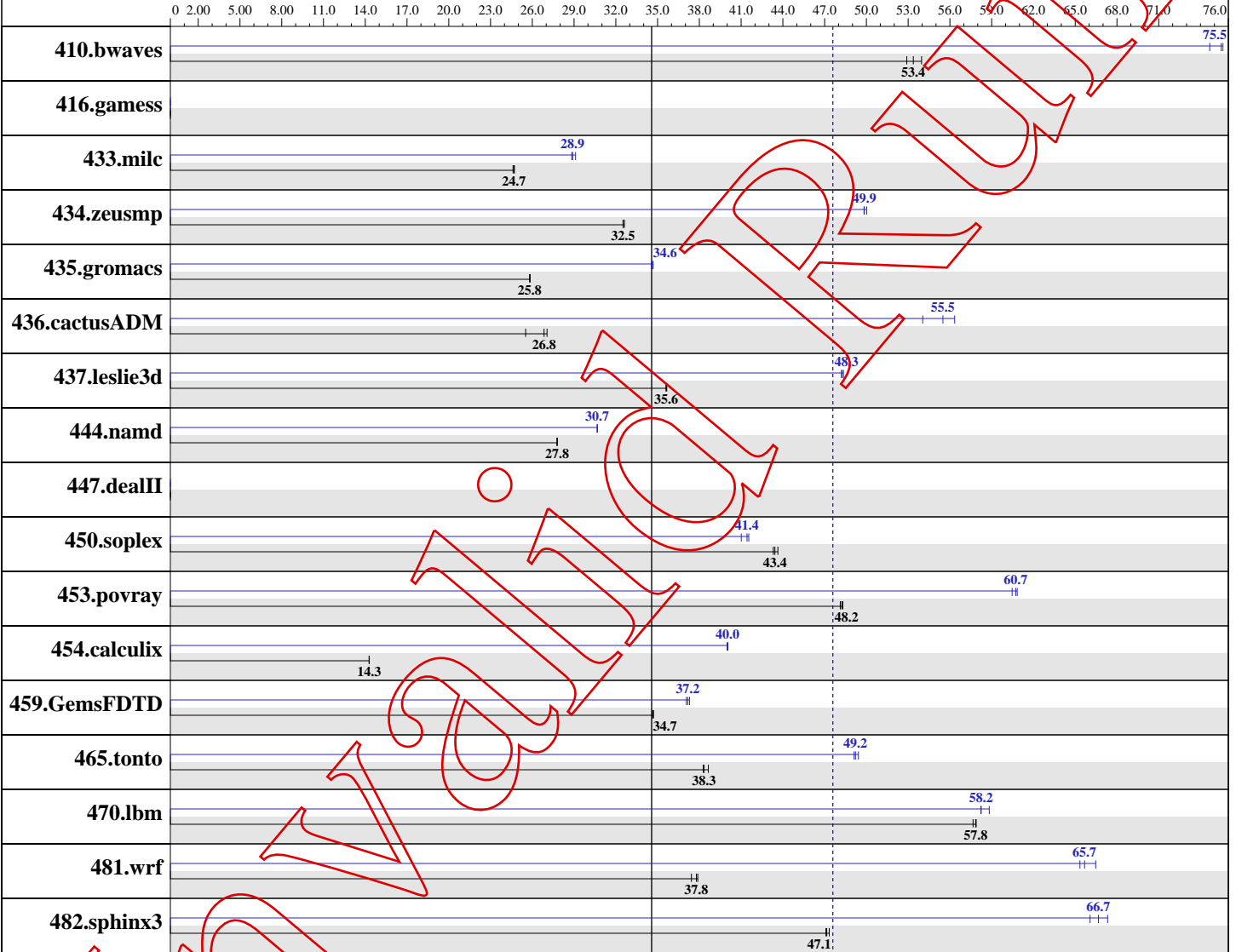
SPEC® CFP2006 Result

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SPECfp®2006 = 47.6

SPECfp_base2006 = 34.6

CPU2006 license #: 0002991 | Test sponsor: | Test date: Jun 08, 2021 | Hardware Availability: Now | Software Availability: Now



SPECfp_base2006 = 34.6

SPECfp2006 = 47.6

Hardware

CPU Name: --
 CPU Characteristics: --
 CPU MHz: 1696.387
 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 20210609 (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 RESULT

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Results Table

| Benchmark | Base | | | | | | Peak | | | | | |
|---------------|------------|-------------|------------|-------------|------------|-------------|-------------|-------------|------------|-------------|------------|-------------|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves | 252 | 54.0 | 257 | 52.9 | 255 | 53.4 | 182 | 74.7 | 180 | 75.6 | 180 | 75.5 |
| 416.gamess | 0.00 | 0.00 | | | | | 0.00 | 0.00 | | | | |
| 433.milc | 373 | 24.6 | 372 | 24.7 | 371 | 24.7 | 315 | 29.1 | 318 | 28.8 | 318 | 28.9 |
| 434.zeusmp | 280 | 32.5 | 280 | 32.5 | 279 | 32.6 | 183 | 49.8 | 183 | 49.9 | 182 | 50.0 |
| 435.gromacs | 277 | 25.8 | 277 | 25.8 | 276 | 25.8 | 207 | 34.6 | 206 | 34.7 | 206 | 34.6 |
| 436.cactusADM | 445 | 26.8 | 468 | 25.5 | 442 | 27.1 | 212 | 56.3 | 221 | 54.0 | 215 | 55.5 |
| 437.leslie3d | 264 | 35.6 | 264 | 35.7 | 264 | 35.6 | 195 | 48.3 | 195 | 48.2 | 194 | 48.3 |
| 444.namd | 289 | 27.8 | 289 | 27.8 | 289 | 27.8 | 261 | 30.7 | 262 | 30.7 | 261 | 30.7 |
| 447.dealII | 0.00 | 0.00 | | | | | 0.00 | 0.00 | | | | |
| 450.soplex | 192 | 43.4 | 193 | 43.3 | 191 | 43.6 | 201 | 41.4 | 203 | 41.0 | 201 | 41.5 |
| 453.povray | 110 | 48.3 | 111 | 48.1 | 110 | 48.2 | 87.6 | 60.7 | 88.0 | 60.5 | 87.5 | 60.8 |
| 454.calculix | 578 | 14.3 | 578 | 14.3 | 577 | 14.3 | 206 | 40.0 | 206 | 40.0 | 206 | 40.0 |
| 459.GemsFDTD | 306 | 34.7 | 306 | 34.6 | 306 | 34.7 | 286 | 37.1 | 285 | 37.2 | 284 | 37.3 |
| 465.tonto | 257 | 38.3 | 257 | 38.3 | 255 | 38.6 | 200 | 49.1 | 199 | 49.4 | 200 | 49.2 |
| 470.lbm | 238 | 57.8 | 238 | 57.7 | 237 | 57.9 | 236 | 58.2 | 236 | 58.2 | 234 | 58.8 |
| 481.wrf | 295 | 37.9 | 298 | 37.4 | 296 | 37.8 | 171 | 65.3 | 168 | 66.5 | 170 | 65.7 |
| 482.sphinx3 | 412 | 47.3 | 413 | 47.1 | 414 | 47.1 | 292 | 66.7 | 295 | 66.1 | 289 | 67.3 |

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 FC)
"/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)
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453.povray: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86_64/inst.topka/bin/g++ -fcommon" (in CXX)
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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 FC)
"/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)
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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"
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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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435.gromacs: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86_64/inst.topka/bin/gfortran -fallow-argument-mismatch" (in FC)
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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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450.soplex: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86_64/inst.topka/bin/g++ -fcommon" (in CXX)
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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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"-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)
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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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"-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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