

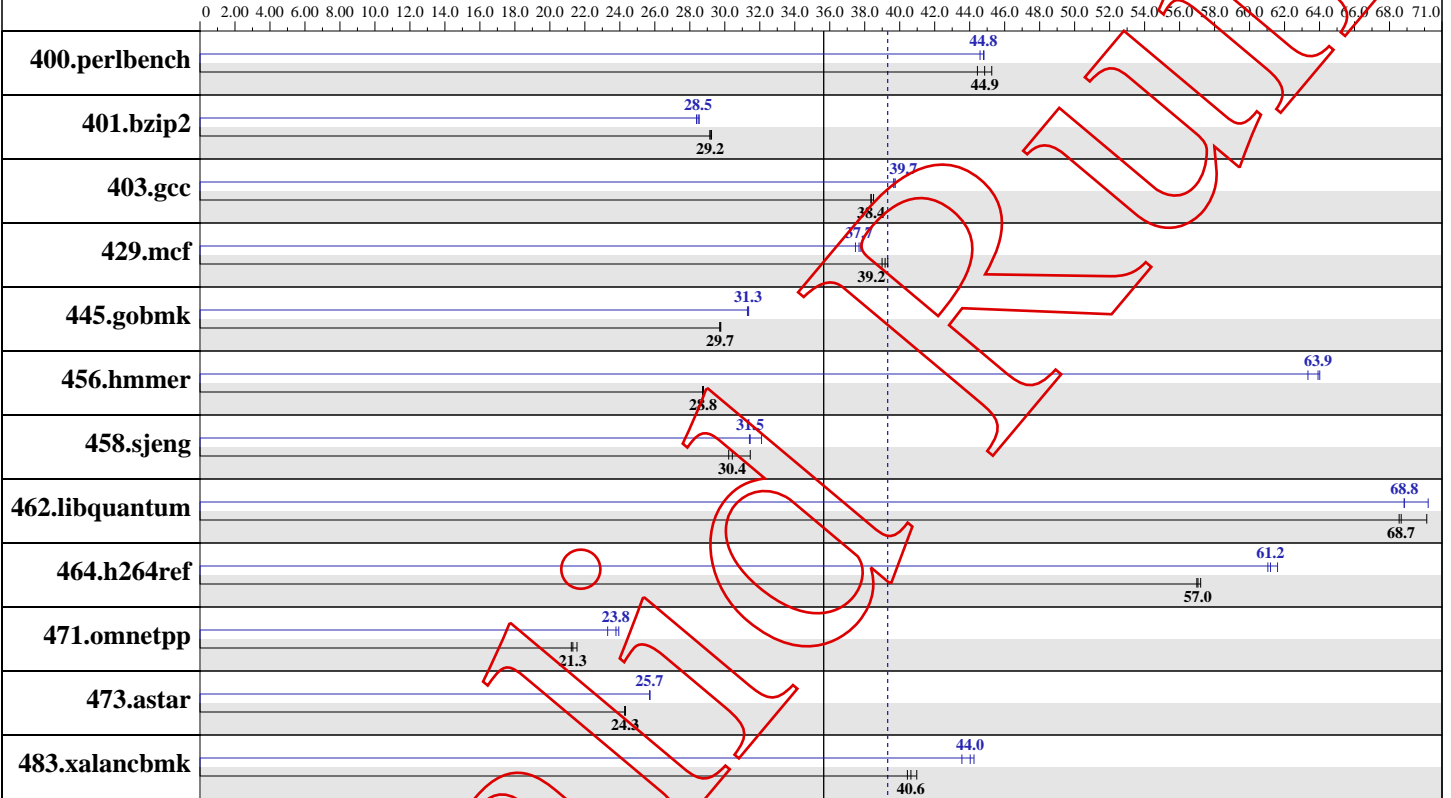
# SPEC® CINT2006 Result

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SPECint®2006 = 39.3

SPECint\_base2006 = 35.7

CPU2006 license #: 0002991 | Test sponsor: | Test date: Jun 04, 2021 | Hardware Availability: Now | Software Availability: Now



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SPECint2006 = 39.3

## Hardware

CPU Name: --  
 CPU Characteristics: --  
 CPU MHz: 1408.796  
 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  
 Disk Subsystem: --  
 Other Hardware: --

## Software

Operating System: Linux 5.3.11-100.fc29.x86\_64  
 Compiler: gcc version 12.0.0 20210605 (experimental) (GCC)  
 Auto Parallel: --  
 File System: --  
 System State: multiuser  
 Base Pointers: --  
 Peak Pointers: --  
 Other Software: --

## Errors

'reportable' flag not set during run  
 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
400.perlbench	<b>218</b>	<b>44.9</b>	220	44.4	216	45.3	<b>218</b>	<b>44.8</b>	218	44.8	219	44.6
401.bzip2	331	29.2	<b>331</b>	<b>29.2</b>	330	29.2	340	28.4	<b>339</b>	<b>28.5</b>	338	28.5
403.gcc	209	38.5	210	38.4	<b>210</b>	<b>38.4</b>	<b>203</b>	<b>39.7</b>	203	39.7	203	39.7
429.mcf	<b>233</b>	<b>39.2</b>	232	39.3	234	39.0	<b>242</b>	<b>37.7</b>	241	37.8	243	37.5
445.gobmk	352	29.8	<b>353</b>	<b>29.7</b>	353	29.7	<b>335</b>	<b>31.3</b>	334	31.4	335	31.3
456.hammer	<b>324</b>	<b>28.8</b>	325	28.7	324	28.8	146	64.0	147	63.3	<b>146</b>	<b>63.9</b>
458.sjeng	<b>398</b>	<b>30.4</b>	400	30.2	385	31.5	385	31.4	377	32.1	<b>385</b>	<b>31.5</b>
462.libquantum	302	68.6	<b>302</b>	<b>68.7</b>	295	70.1	301	68.8	<b>301</b>	<b>68.8</b>	295	70.2
464.h264ref	387	57.2	388	57.0	<b>388</b>	<b>57.0</b>	<b>362</b>	<b>61.2</b>	363	61.0	359	61.6
471.omnetpp	290	21.6	294	21.2	<b>293</b>	<b>21.3</b>	268	23.3	261	23.9	<b>263</b>	<b>23.8</b>
473.astar	289	24.3	<b>289</b>	<b>24.3</b>	289	24.3	273	25.7	<b>273</b>	<b>25.7</b>	273	25.7
483.xalancbmk	168	41.0	171	40.4	<b>170</b>	<b>40.6</b>	<b>157</b>	<b>44.0</b>	156	44.2	158	43.6

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.  
400.perlbench: -DSPEC\_CPU\_LINUX\_X64  
462.libquantum: -DSPEC\_CPU\_LINUX

## Base Unknown Flags

400.perlbench: "/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  
"-std=gnu89" (in CPORTABILITY)  
"-O2 -mtune=generic" (in COPTIMIZE)

401.bzip2: "/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)

403.gcc: "/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)

429.mcf: "/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)

445.gobmk: "/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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## Base Unknown Flags (Continued)

456.hmmer: "/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)

458.sjeng: "/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)

462.libquantum: "/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)

464.h264ref: "/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)

471.omnetpp: "/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"  
"-O2 -mtune=generic" (in CXXOPTIMIZE)

473.aster: "/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"  
"-O2 -mtune=generic" (in CXXOPTIMIZE)

483.xalancbmk: "/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"  
"-O2 -mtune=generic" (in CXXOPTIMIZE)

## Peak Unknown Flags

400.perlbench: "/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"  
"-std-gnu89" (in CPORTABILITY)  
"-O2 -mtune=generic" (in COPTIMIZE)

401.bz2: "/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)

403.gcc: "/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)

429.mcf: "/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)

445.gobmk: "/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)

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456.hmmer: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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458.sjeng: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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462.libquantum: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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464.h264ref: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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473.aster: "/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 COPTIMIZE)

401.bzip2: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon"  
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483.xalancbmk: "/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 CXXOPTIMIZE)

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