

# SPEC® CINT2006 Result

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**SPECint®2006 = 39.4**

**SPECint\_base2006 = 35.8**

CPU2006 license #: 0002991   Test sponsor:		Test date: Jun 16, 2021	Hardware Availability: Now	Software Availability: Now
		0 2.00 4.00 6.00 8.00 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0 62.0 64.0 66.0 68.0 71.0		
<b>400.perlbench</b>			44.9	
<b>401.bzip2</b>		28.9	45.1	
<b>403.gcc</b>		29.2		
<b>429.mcf</b>			39.7	
<b>445.gobmk</b>		31.4	38.5	
<b>456.hmmmer</b>		29.8	39.6	
<b>458.sjeng</b>			38.9	
<b>462.libquantum</b>			38.6	
<b>464.h264ref</b>			30.4	
<b>471.omnetpp</b>		21.3	61.1	
<b>473.astar</b>		23.8	56.9	
<b>483.xalancbmk</b>		25.7		
		24.2		
			43.5	
			40.5	
<b>SPECint_base2006 = 35.8</b>				
<b>SPECint2006 = 39.4</b>				

## Hardware

CPU Name: --  
 CPU Characteristics: --  
 CPU MHz: 1174.954  
 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: 16280464 kB  
 Disk Subsystem:  
 Other Hardware:

## Software

Operating System: Linux 5.3.11-100.fc29.x86\_64  
 Compiler: gcc version 12.0.0 20210617 (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										
400.perlbench	219	44.7	<b>217</b>	<b>45.1</b>	216	45.3	<b>218</b>	<b>44.9</b>	218	44.8	218	44.9
401.bzip2	331	29.2	330	29.2	<b>331</b>	<b>29.2</b>	330	28.8	<b>334</b>	<b>28.9</b>	334	28.9
403.gcc	208	38.6	209	38.5	<b>209</b>	<b>38.5</b>	203	39.7	<b>203</b>	<b>39.7</b>	202	39.8
429.mcf	231	39.4	230	39.6	<b>230</b>	<b>39.6</b>	245	37.2	<b>242</b>	<b>37.7</b>	242	37.7
445.gobmk	352	29.8	<b>352</b>	<b>29.8</b>	352	29.8	<b>334</b>	<b>31.4</b>	334	31.4	335	31.3
456.hammer	323	28.9	323	28.9	<b>323</b>	<b>28.9</b>	146	63.9	148	63.0	146	64.0
458.sjeng	387	31.3	<b>398</b>	<b>30.4</b>	400	30.2	382	31.6	<b>383</b>	<b>31.6</b>	384	31.5
462.libquantum	301	68.8	295	70.2	<b>295</b>	<b>70.2</b>	<b>294</b>	<b>70.6</b>	294	70.5	294	70.6
464.h264ref	388	57.1	<b>389</b>	<b>56.9</b>	391	56.6	363	60.9	362	61.2	<b>362</b>	<b>61.1</b>
471.omnetpp	<b>293</b>	<b>21.3</b>	299	20.9	293	21.3	<b>263</b>	<b>23.8</b>	269	23.2	260	24.0
473.astar	<b>290</b>	<b>24.2</b>	290	24.2	295	23.8	274	25.6	<b>273</b>	<b>25.7</b>	273	25.8
483.xalancbmk	<b>170</b>	<b>40.5</b>	173	39.9	170	40.6	194	44.7	161	42.9	<b>159</b>	<b>43.5</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 -f1to

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 -fcom  
"-std=gnu89" (in CPORATIBILITY)  
"-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 -fcom  
"-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 -fcom  
"-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 -fcom  
"-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 -fcom  
"-O2 -mtune=generic" (in COPTIMIZE)

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CPU2006 license #: 0002991 | Test sponsor:

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Software Availability: Now

## Base Unknown Flags (Continued)

456.hmmr: "/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.astar: "/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.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.mcfc: "/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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CPU2006 license #: 0002991 Test sponsor:

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Now Software Availability:

Now

## Peak Unknown Flags (Continued)

456.hmmr: "/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  
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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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471.omnetpp: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)  
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473.astar: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)  
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"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon  
"-std=gnu89" (in CPORTRABILITY)  
"-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)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon  
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"-Ofast -mtune=corei7 -march=core-avx2 -flto" (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  
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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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"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

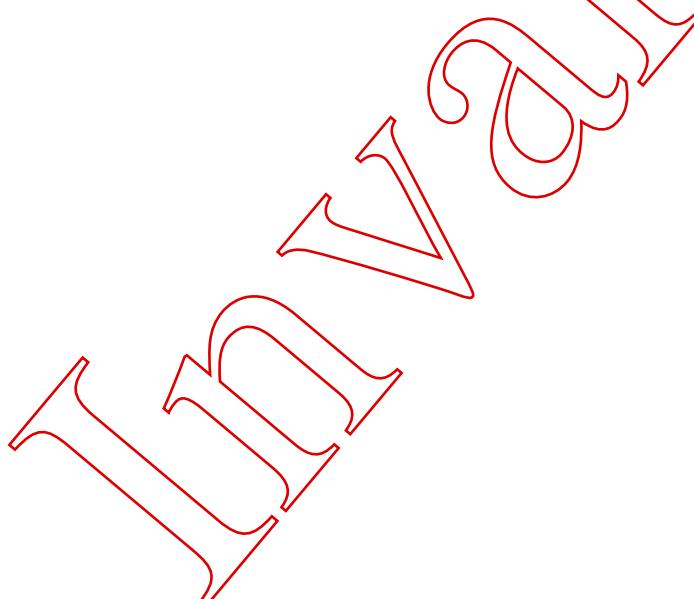
462.libquantum: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon  
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464.h264ref: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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471.omnetpp: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)  
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473.astar: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/g++ -fcommon" (in CXX)  
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