

# SPEC® CINT2006 Result

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**SPECint®2006 = 39.3**

**SPECint\_base2006 = 35.7**

		CPU2006 license #: 0002991	Test sponsor:	Test date: Jun 19, 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>					45.2			
<b>401.bzip2</b>			28.8		45.2			
<b>403.gcc</b>			29.2					
<b>429.mcf</b>				39.6				
<b>445.gobmk</b>				36.4				
<b>456.hmmmer</b>				37.9				
<b>458.sjeng</b>				39.5				
<b>462.libquantum</b>					64.0			
<b>464.h264ref</b>						69.1		
<b>471.omnetpp</b>			23.0			56.9		
<b>473.astar</b>			20.8					
<b>483.xalancbmk</b>			25.7					
			24.2					
				44.3				
				40.6				
						<b>SPECint_base2006 = 35.7</b>		
							<b>SPECint2006 = 39.3</b>	

## Hardware

CPU Name: --  
CPU Characteristics: --  
CPU MHz: 1506.984  
FPU: Integrated  
CPU(s) enabled: 4 cores, -1 chips, -1 cores/chip, -1 threads/core  
CPU(s) orderable:  
Primary Cache: 6144 KB  
Secondary Cache: 16280464 kB  
L3 Cache:  
Other Cache:  
Memory:  
Disk Subsystem:  
Other Hardware:

## Software

Operating System: Linux 5.3.11-100.fc29.x86\_64  
Compiler: gcc version 12.0.0 20210620 (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	220	44.4	<b>216</b>	<b>45.2</b>	215	45.5	<b>216</b>	<b>45.3</b>	<b>217</b>	<b>45.1</b>	<b>216</b>	<b>45.2</b>
401.bzip2	330	29.2	331	29.2	<b>330</b>	<b>29.2</b>	<b>335</b>	28.8	<b>334</b>	28.9	<b>335</b>	<b>28.8</b>
403.gcc	209	38.6	<b>209</b>	<b>38.4</b>	210	38.3	<b>203</b>	<b>39.6</b>	<b>203</b>	<b>39.6</b>	202	39.8
429.mcf	231	39.5	<b>231</b>	<b>39.5</b>	235	38.8	<b>259</b>	<b>35.2</b>	<b>240</b>	<b>37.9</b>	240	38.0
445.gobmk	353	29.7	<b>352</b>	<b>29.8</b>	352	29.8	<b>335</b>	31.3	<b>334</b>	31.4	<b>335</b>	<b>31.3</b>
456.hammer	323	28.9	<b>323</b>	<b>28.9</b>	323	28.9	<b>146</b>	64.0	<b>146</b>	63.8	<b>146</b>	<b>64.0</b>
458.sjeng	<b>394</b>	<b>30.7</b>	383	31.6	396	30.6	<b>383</b>	<b>31.6</b>	<b>375</b>	32.3	384	31.5
462.libquantum	295	70.2	<b>296</b>	<b>70.0</b>	302	68.6	<b>295</b>	<b>70.3</b>	<b>300</b>	<b>69.1</b>	300	69.0
464.h264ref	389	56.9	390	56.7	<b>389</b>	<b>56.9</b>	<b>362</b>	61.2	363	60.9	<b>363</b>	<b>60.9</b>
471.omnetpp	302	20.7	297	21.0	<b>301</b>	<b>20.8</b>	<b>272</b>	23.0	260	24.0	<b>272</b>	<b>23.0</b>
473.astar	<b>290</b>	<b>24.2</b>	290	24.2	291	24.1	<b>274</b>	25.6	273	25.7	<b>274</b>	<b>25.7</b>
483.xalancbmk	<b>170</b>	<b>40.6</b>	172	40.0	169	40.9	<b>195</b>	44.4	<b>156</b>	<b>44.3</b>	160	43.1

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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## 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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## Peak 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.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)  
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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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429.mcf: "/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)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

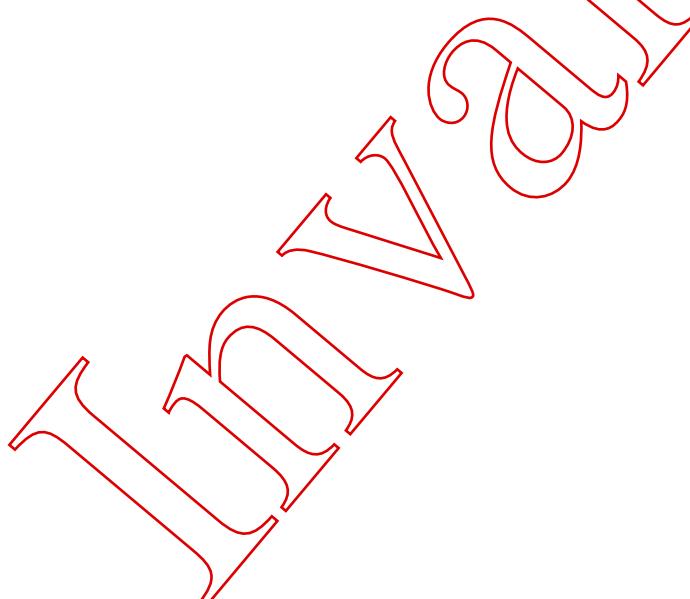
462.libquantum: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

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  
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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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"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in CXXOPTIMIZE)



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