

# SPEC® CINT2006 Result

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**SPECint®2006 = 39.5**

**SPECint\_base2006 = 35.8**

--		CPU2006 license #: 0002991	Test sponsor:	Test date: Jun 07, 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>					45.4			
<b>401.bzip2</b>		28.6			45.4			
<b>403.gcc</b>			29.2					
<b>429.mcf</b>				39.8	38.5	37.6	37.6	
<b>445.gobmk</b>		31.4		29.8	39.3			
<b>456.hmmmer</b>				25.7	25.7	25.0	25.0	63.9
<b>458.sjeng</b>				30.3	30.3	32.0	32.0	
<b>462.libquantum</b>					30.0			70.5
<b>464.h264ref</b>						61.3		70.0
<b>471.omnetpp</b>		23.8		21.0	21.0			57.0
<b>473.astar</b>				25.7	25.7			
<b>483.xalancbmk</b>			24.3			44.0		40.6
<b>SPECint_base2006 = 35.8</b>								
<b>SPECint2006 = 39.5</b>								

## Hardware

CPU Name: --  
CPU Characteristics: --  
CPU MHz: 857.834  
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 20210608 (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	217	45.0	214	45.6	<b>215</b>	<b>45.4</b>	216	45.3	<b>215</b>	<b>45.4</b>	215	45.5
401.bzip2	332	29.1	<b>331</b>	<b>29.2</b>	331	29.2	337	28.6	<b>339</b>	<b>28.5</b>	<b>337</b>	<b>28.6</b>
403.gcc	209	38.5	209	38.4	<b>209</b>	<b>38.5</b>	203	39.7	202	39.8	<b>202</b>	<b>39.8</b>
429.mcf	240	38.1	232	39.4	<b>232</b>	<b>39.3</b>	246	37.1	<b>241</b>	<b>37.8</b>	240	38.0
445.gobmk	352	29.8	<b>352</b>	<b>29.8</b>	352	29.8	334	31.4	334	31.4	<b>334</b>	<b>31.4</b>
456.hmmer	324	28.8	<b>325</b>	<b>28.7</b>	325	28.7	146	64.0	<b>146</b>	<b>63.9</b>	147	63.6
458sjeng	<b>391</b>	<b>30.9</b>	401	30.2	387	31.2	380	31.9	<b>378</b>	<b>32.0</b>	376	32.2
462.libquantum	296	70.1	<b>296</b>	<b>70.0</b>	296	70.0	<b>294</b>	<b>70.5</b>	295	70.3	294	70.6
464.h264ref	388	57.0	387	57.2	<b>388</b>	<b>57.0</b>	362	61.1	361	61.4	<b>361</b>	<b>61.3</b>
471.omnetpp	<b>297</b>	<b>21.0</b>	299	20.9	293	21.3	266	23.5	<b>263</b>	<b>23.8</b>	260	24.0
473.astar	288	24.3	<b>289</b>	<b>24.3</b>	290	24.2	<b>273</b>	25.7	275	25.6	<b>274</b>	<b>25.7</b>
483.xalancbmk	170	40.5	<b>170</b>	<b>40.6</b>	169	40.8	<b>196</b>	44.2	<b>157</b>	<b>44.0</b>	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 -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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SPECint\_base2006 = 35.8

CPU2006 license #: 0002991 | Test sponsor:

Test date: Jun 07, 2021 | Hardware Availability: Now

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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**SPECint2006 = 39.5**

**SPECint\_base2006 = 35.8**

CPU2006 license #: 0002991 Test sponsor:

Test date: Jun 07, 2021 Hardware Availability:

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  
"-O2 -mtune=generic" (in COPTIMIZE)

464.h264ref: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
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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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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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"-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)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

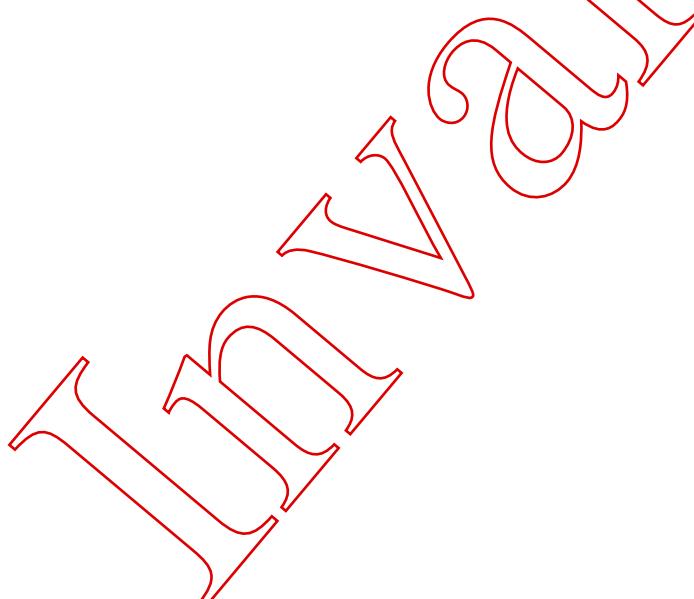
462.libquantum: "/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon" (in CC)  
"/notnfs/vmakarov/perf/sbox/gcc/local.spec2006.x86\_64/inst.topka/bin/gcc -fcommon  
"-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

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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