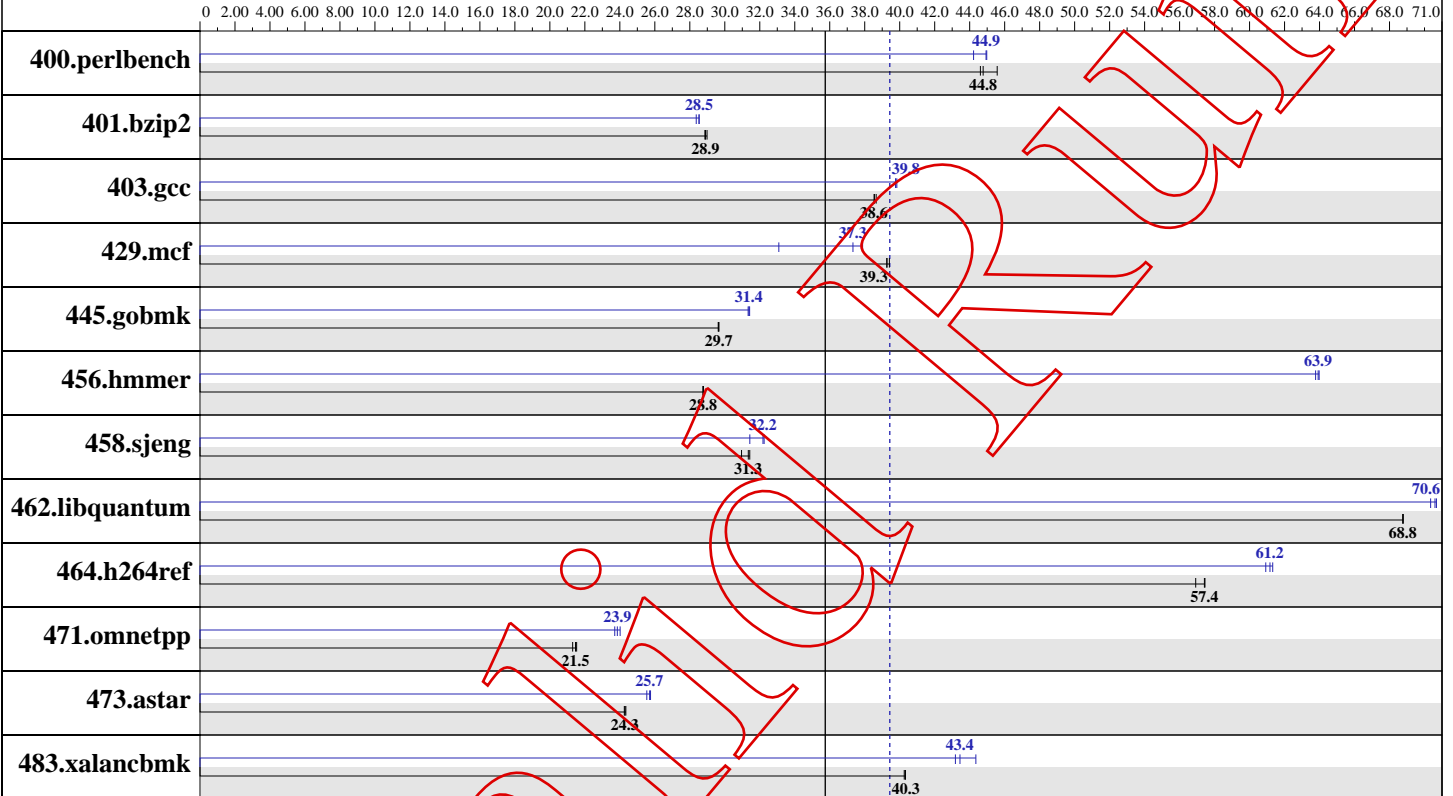# SPEC® CINT2006 Result

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SPECint®2006 = 39.4

SPECint_base2006 = 35.7

CPU2006 license #: 0002991 | Test sponsor: | Test date: | May 25, 2021 | Hardware Availability: | Now | Software Availability: | Now

(Watermark: Invalid Run)

Benchmark	Peak	Base
400.perlbench	44.9	44.8
401.bzip2	28.5	28.9
403.gcc	39.8	38.6
429.mcf	37.3	39.3
445.gobmk	31.4	29.7
456.hmmer	63.9	23.8
458.sjeng	32.2	31.3
462.libquantum	70.6	68.8
464.h264ref	61.2	57.4
471.omnetpp	23.9	21.5
473.astar	25.7	24.3
483.xalancbmk	43.4	40.3

SPECint_base2006 = 35.7

SPECint2006 = 39.4

Hardware

CPU Name: --
CPU Characteristics:
CPU MHz: 1488.878
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 20210526 (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.

SPEC CINT2006 Result
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	SPECint2006 =	39.4
	SPECint_base2006 =	35.7

CPU2006 license #: 0002991 Test sponsor: Test date: May 25, 2021 Hardware Availability: Now Software Availability: Now

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**218**	**44.8**	214	45.6	219	44.6	221	44.2	**217**	**44.9**	217	45.0
401.bzip2	333	29.0	**334**	**28.9**	334	28.9	340	28.4	338	28.5	**338**	**28.5**
403.gcc	**209**	**38.6**	208	38.7	209	38.5	202	39.8	202	39.8	**202**	**39.8**
429.mcf	231	39.4	**232**	**39.3**	232	39.3	276	33.1	241	37.9	**244**	**37.3**
445.gobmk	**354**	**29.7**	354	29.6	354	29.7	335	31.3	334	31.4	**334**	**31.4**
456.hmmer	**324**	**28.8**	324	28.8	324	28.8	146	64.0	146	63.8	**146**	**63.9**
458.sjeng	391	31.0	**386**	**31.3**	385	31.4	375	32.2	385	31.4	**376**	**32.2**
462.libquantum	301	68.8	**301**	**68.8**	301	68.8	**293**	**70.6**	293	70.7	295	70.4
464.h264ref	385	57.4	**385**	**57.4**	389	56.9	**362**	**61.2**	361	61.3	363	60.9
471.omnetpp	**291**	**21.5**	293	21.3	290	21.5	**262**	**23.9**	264	23.7	260	24.0
473.astar	288	24.3	289	24.3	**289**	**24.3**	273	25.7	275	25.5	273	25.8
483.xalancbmk	171	40.3	**171**	**40.3**	171	40.3	160	43.2	156	44.4	**159**	**43.4**

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 -fcom
               "-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 -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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SPEC CINT2006 Result
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SPECint2006 =	39.4
SPECint_base2006 =	35.7

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 -fcom
      "-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 -fcom
      "-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 -fcom
      "-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 -fcom
      "-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++ -fcom
      "-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++ -fcom
      "-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++ -fcom
      "-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 -fcom
      "-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 -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)

Continued on next page

	SPECint2006 = 39.4
--	SPECint_base2006 = 35.7

CPU2006 license #: 0002991   Test sponsor: Test date: May 25, 2021   Hardware Availability: Now   Software Availability: Now

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 -fcom
              "-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 -fcom
              "-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 -fcom
              "-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 -fcom
              "-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++ -fcom
              "-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++ -fcom
              "-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++ -fcom
              "-O2 -mtune=generic" (in CXXOPTIMIZE)

 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 CPORTABILITY)
              "-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 -fcom
              "-Ofast -mtune=corei7 -march=core-avx2 -flto" (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
              "-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 -fcom
              "-Ofast -mtune=corei7 -march=core-avx2 -flto" (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
              "-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)

   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 -fcom
              "-Ofast -mtune=corei7 -march=core-avx2 -flto" (in COPTIMIZE)
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SPEC CINT2006 Result
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SPECint2006 =   39.4

SPECint_base2006 =   35.7

CPU2006 license #: 0002991 | Test sponsor: | Test date: May 25, 2021 | Hardware Availability: Now | Software Availability: Now

Peak Unknown Flags (Continued)

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