

# SPEC® CINT2006 Result

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Intel

(Test Sponsor: guee)

SPECint®2006 = Not Run

Intel(R) Core(TM) i9-10850K

SPECint\_base2006 = 32.1

CPU2006 license:

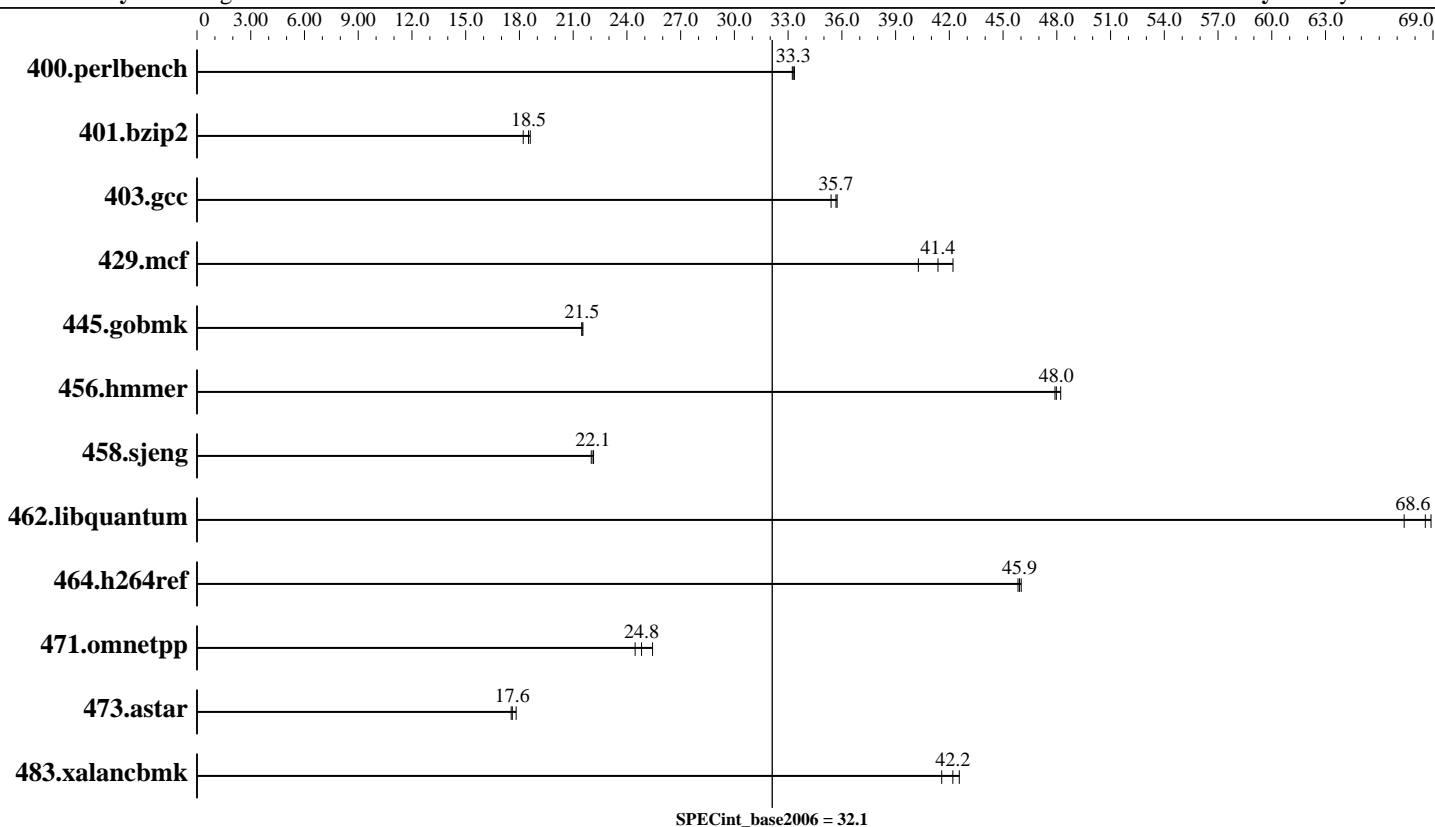
Test sponsor: guee

Tested by: guee

Test date: Aug-2021

Hardware Availability: May-2021

Software Availability: July-2021



## Hardware

CPU Name: Intel Core i9-10850K  
CPU Characteristics: Intel(R) Core(TM) i9-10850K  
CPU MHz: Fixed 2500MHz  
FPU: Integrated  
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core  
CPU(s) orderable: 1  
Primary Cache: 128KB I + 192KB D on chip per core  
Secondary Cache: 1280kB I+D on chip per core  
L3 Cache: 12MB I+D on chip per chip  
Other Cache: None  
Memory: 64 GB (2 x 32GB DDR4 3200)  
62.736 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Disk Subsystem: 98 GB add more disk info here  
Other Hardware: None

## Software

Operating System: Ubuntu 20.04.2 LTS  
5.10.0-1038-oem  
Compiler: gcc/g++ 8.4  
Auto Parallel: No  
File System: ext4  
System State: Run level 5 (add definition here)  
Base Pointers: 64-bit  
Peak Pointers: 64-bit  
Other Software: --

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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	293	33.4	<u>294</u>	<u>33.3</u>	294	33.2						
401.bzip2	519	18.6	<u>521</u>	<u>18.5</u>	530	18.2						
403.gcc	225	35.7	227	35.4	<u>226</u>	<u>35.7</u>						
429.mcf	216	42.2	226	40.3	<u>220</u>	<u>41.4</u>						
445.gobmk	488	21.5	487	21.5	<u>488</u>	<u>21.5</u>						
456.hammer	195	47.9	194	48.2	<u>194</u>	<u>48.0</u>						
458.sjeng	550	22.0	<u>547</u>	<u>22.1</u>	547	22.1						
462.libquantum	<u>302</u>	<u>68.6</u>	301	68.9	307	67.4						
464.h264ref	<u>482</u>	<u>45.9</u>	481	46.0	483	45.8						
471.omnetpp	256	24.5	246	25.4	<u>252</u>	<u>24.8</u>						
473.astar	394	17.8	<u>399</u>	<u>17.6</u>	400	17.5						
483.xalancbmk	162	42.6	166	41.6	<u>164</u>	<u>42.2</u>						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Platform Notes

```
Sysinfo program /home/guee/spec2006/Docs/sysinfo
$Rev: 6775 $ $Date: 2011-08-16 # $ 8787f7622badcf24e01c368b1db4377c
running on i9-10850K Tue Aug 24 10:06:43 2021
```

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see: <http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

```
From /proc/cpuinfo
model name : Intel(R) Core(TM) i9-10850K CPU @ 3.60GHz
1 "physical id"s (chips)
20 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The
following excerpts from /proc/cpuinfo might not be reliable. Use with
caution.)
cpu cores : 10
siblings : 20
physical 0: cores 0 1 2 3 4 5 6 7 8 9
cache size : 20480 KB
```

```
From /proc/meminfo
MemTotal: 65783440 kB
HugePages_Total: 0
Hugepagesize: 2048 kB
```

```
/usr/bin/lsb_release -d
Ubuntu 20.04.2 LTS
```

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## Platform Notes (Continued)

From /etc/\*release\* /etc/\*version\*

debian\_version: bullseye/sid

os-release:

NAME="Ubuntu Kylin"

VERSION="20.04.2 LTS (Focal Fossa)"

ID=ubuntu

ID\_LIKE=debian

PRETTY\_NAME="Ubuntu 20.04.2 LTS"

VERSION\_ID="20.04"

HOME\_URL="https://www.ubuntu.com/"

SUPPORT\_URL="https://help.ubuntu.com/"

uname -a:

Linux i9-10850K 5.10.0-1038-oem #40-Ubuntu SMP Fri Jul 16 15:08:30 UTC 2021

x86\_64 x86\_64 x86\_64 GNU/Linux

run-level 5 Aug 24 17:58

SPEC is set to: /home/guee/spec2006

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sda3	ext4	98G	28G	65G	31%	/

(End of data from sysinfo program)

## Base Compiler Invocation

C benchmarks:

gcc-8

C++ benchmarks:

g++-8

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LP64 -fno-strict-aliasing -DSPEC\_CPU\_LINUX\_X64  
-std=gnu90  
401.bzip2: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
403.gcc: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
429.mcf: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
445.gobmk: -DSPEC\_CPU\_LP64 -fno-strict-aliasing -std=gnu90  
456.hmmer: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
458.sjeng: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
462.libquantum: -DSPEC\_CPU\_LP64 -fno-strict-aliasing -DSPEC\_CPU\_LINUX  
464.h264ref: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
471.omnetpp: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
473.astar: -DSPEC\_CPU\_LP64 -fno-strict-aliasing  
483.xalancbmk: -DSPEC\_CPU\_LP64 -fno-strict-aliasing -DSPEC\_CPU\_LINUX

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## Base Optimization Flags

C benchmarks:

-m64 -Ofast -mavx2 -flto -march=native -funroll-all-loops

C++ benchmarks:

-m64 -Ofast -mavx2 -flto -march=native -funroll-all-loops

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.  
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