

SPEC[®] CINT2006 Result

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AuthenticAMD

(Test Sponsor: guee)

SPECint[®]2006 = Not Run

AMD Ryzen 7 5800U with Radeon Graphics

SPECint_base2006 = 36.1

CPU2006 license:

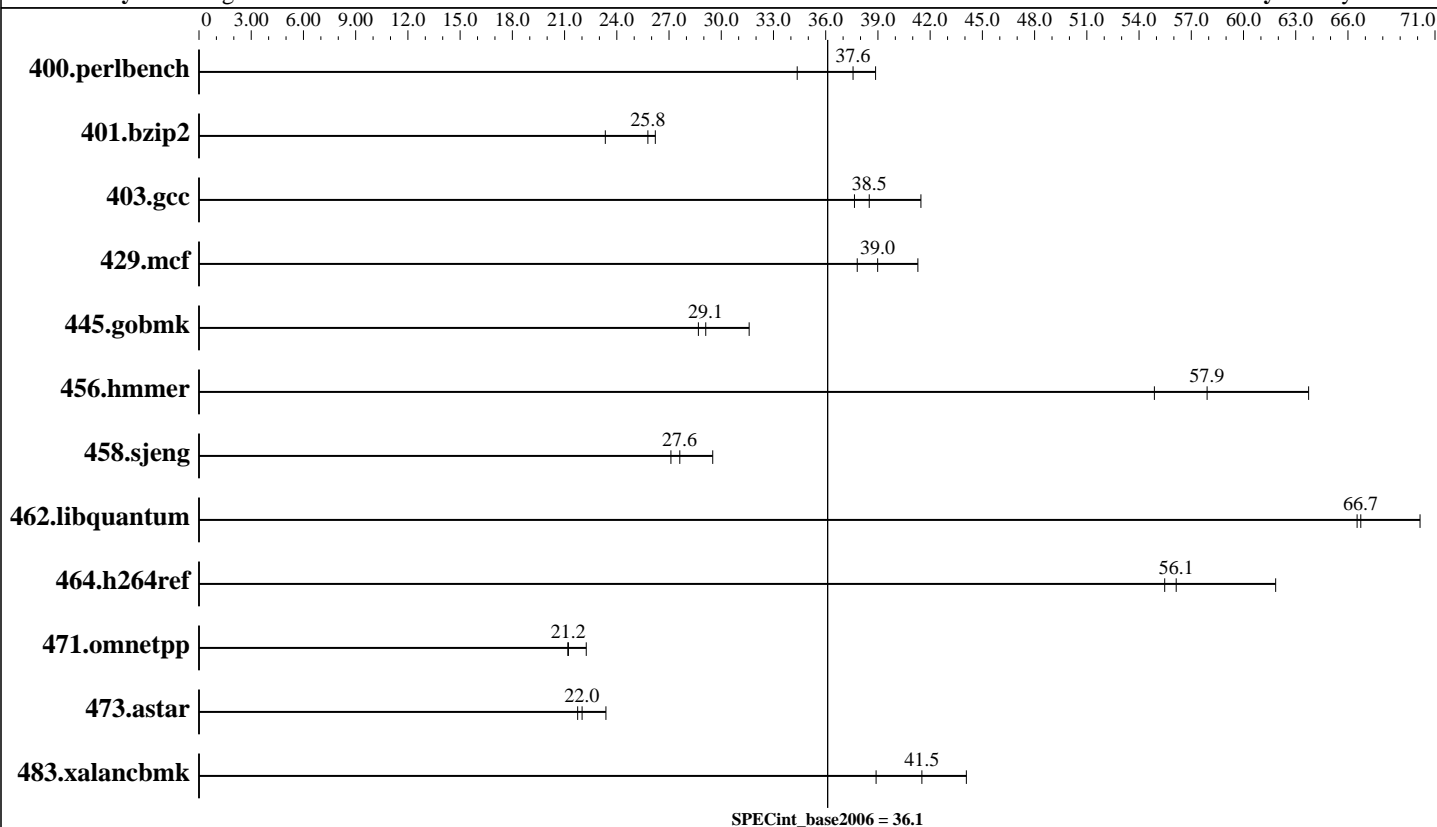
Test sponsor: guee

Tested by: guee

Test date: Aug-2021

Hardware Availability: May-2021

Software Availability: July-2021



Hardware

CPU Name: AMD Ryzen 7 5800U with Radeon Graphics
CPU Characteristics: AMD Ryzen 7 5800U with Radeon Graphics
CPU MHz: 1900MHz~4400MHz
FPU: Integrated
CPU(s) enabled: 8 cores, 1 chip, 8 cores/chip, 2 threads/core
CPU(s) orderable: 1
Primary Cache: 256KB I + 256KB D on chip per core
Secondary Cache: 4MB I+D on chip per chip
L3 Cache: 16MB I+D on chip per chip
Other Cache: None
Memory: 16 GB (2 x 8GB DDR4 3200)
13.571 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 | 251 | 38.9 | <u>260</u> | <u>37.6</u> | 284 | 34.4 | | | | | | |
| 401.bzip2 | <u>374</u> | <u>25.8</u> | 368 | 26.2 | 413 | 23.3 | | | | | | |
| 403.gcc | 194 | 41.5 | <u>209</u> | <u>38.5</u> | 214 | 37.7 | | | | | | |
| 429.mcf | 221 | 41.3 | 241 | 37.8 | <u>234</u> | <u>39.0</u> | | | | | | |
| 445.gobmk | 332 | 31.6 | <u>360</u> | <u>29.1</u> | 366 | 28.7 | | | | | | |
| 456.hammer | 146 | 63.7 | 170 | 54.9 | <u>161</u> | <u>57.9</u> | | | | | | |
| 458.sjeng | 410 | 29.5 | 446 | 27.1 | <u>438</u> | <u>27.6</u> | | | | | | |
| 462.libquantum | 295 | 70.1 | 311 | 66.5 | <u>310</u> | <u>66.7</u> | | | | | | |
| 464.h264ref | 358 | 61.8 | 399 | 55.5 | <u>394</u> | <u>56.1</u> | | | | | | |
| 471.omnetpp | 281 | 22.2 | 295 | 21.2 | <u>294</u> | <u>21.2</u> | | | | | | |
| 473.astar | 300 | 23.4 | 323 | 21.8 | <u>319</u> | <u>22.0</u> | | | | | | |
| 483.xalancbmk | 157 | 44.1 | 177 | 38.9 | <u>166</u> | <u>41.5</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 r7-5800u Mon Aug 9 05:41:57 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 : AMD Ryzen 7 5800U with Radeon Graphics
1 "physical id"s (chips)
16 "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 : 8
siblings : 16
physical 0: cores 0 1 2 3 4 5 6 7
cache size : 512 KB
```

```
From /proc/meminfo
MemTotal: 14229752 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 r7-5800u 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 9 01:39
```

```
SPEC is set to: /home/guee/spec2006
```

```
Filesystem      Type  Size  Used Avail Use% Mounted on  
/dev/sda3       ext4  98G   20G   74G  21% /
```

```
(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  
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 -march=native -funroll-all-loops

C++ benchmarks:

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

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For other inquiries, please contact webmaster@spec.org.

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