

SPEC® CINT2006 Result

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Intel

(Test Sponsor: guee)

SPECint®2006 = Not Run

Intel(R) Core(TM) i5-6400 CPU @ 2.70GHz

SPECint_base2006 = 37.6

CPU2006 license:

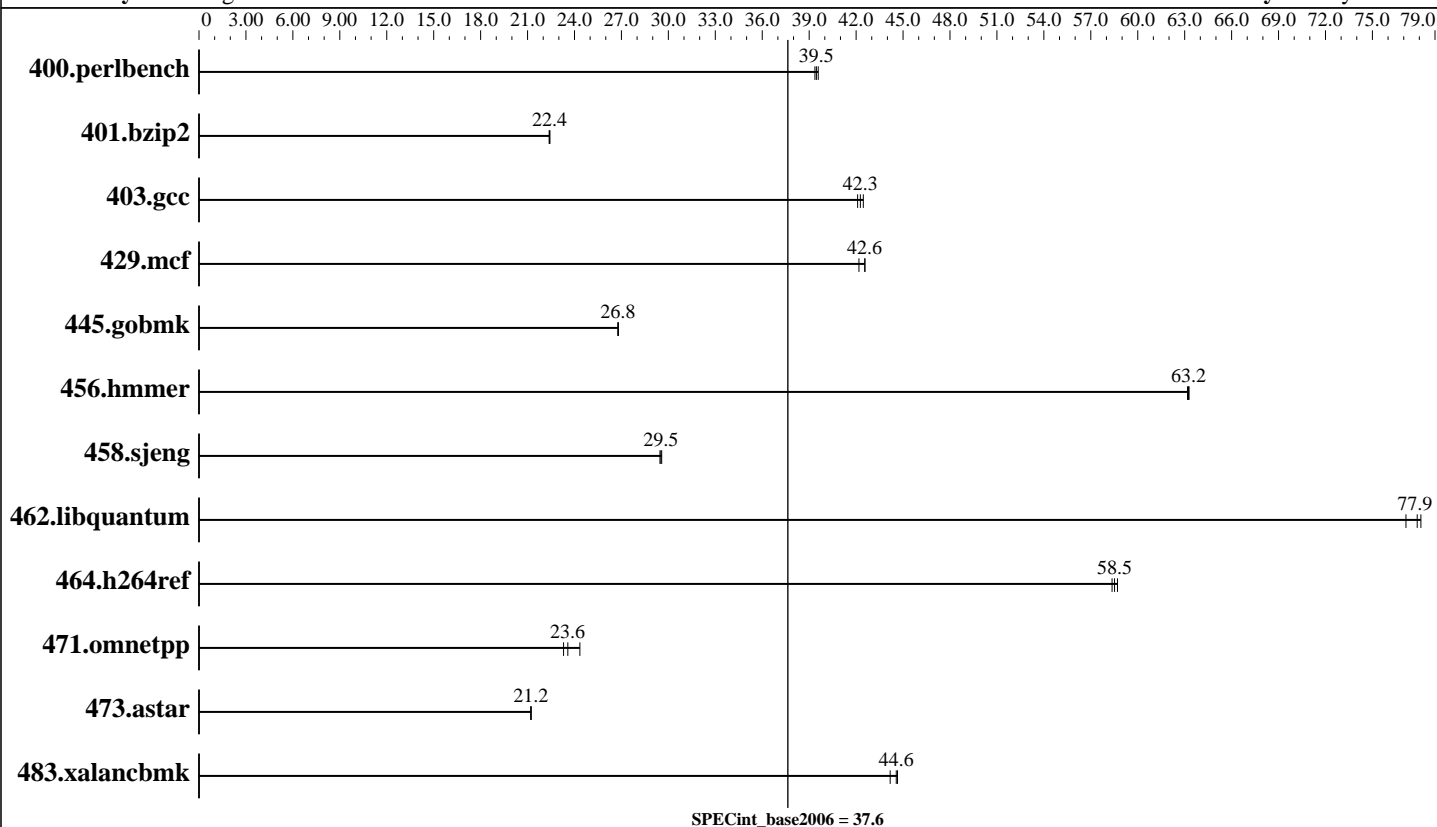
Test sponsor: guee

Tested by: guee

Test date: Aug-2021

Hardware Availability: Sept-2015

Software Availability: July-2021



Hardware

CPU Name: Intel Core i5-6400
CPU Characteristics: Intel(R) Core(TM) i5-6400 CPU @ 2.70GHz
CPU MHz: 2700
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
CPU(s) orderable: 1
Primary Cache: 128 KB I + 128 KB D on chip per core
Secondary Cache: 1024 KB I+D on chip per chip
L3 Cache: 6 MB I+D on chip per chip
Other Cache: None
Memory: 16 GB (2 x 8 GB DDR4-2133)
15.348 GB fixme: If using DDR3, format is:
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Disk Subsystem: 404 GB add more disk info here
Other Hardware: None

Software

Operating System: UnionTech OS Desktop 20 Pro
4.19.0-amd64-desktop
Compiler: gcc/g++ (Uos 8.3.0.7-1+dde) 8.3
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	248	39.4	247	39.6	248	39.5						
401.bzip2	431	22.4	431	22.4	430	22.4						
403.gcc	190	42.3	191	42.1	190	42.5						
429.mcf	214	42.6	214	42.6	216	42.2						
445.gobmk	391	26.8	392	26.8	392	26.8						
456.hmmr	147	63.3	148	63.2	148	63.2						
458.sjeng	410	29.5	411	29.5	409	29.6						
462.libquantum	266	77.9	269	77.1	265	78.1						
464.h264ref	378	58.5	379	58.4	377	58.7						
471.omnetpp	265	23.6	268	23.3	257	24.3						
473.astar	331	21.2	331	21.2	331	21.2						
483.xalancbmk	156	44.2	155	44.6	155	44.6						

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 i5-6400 Fri Aug 6 02:06:15 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) i5-6400 CPU @ 2.70GHz
1 "physical id"s (chips)
4 "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 : 4
siblings : 4
physical 0: cores 0 1 2 3
cache size : 6144 KB
```

```
From /proc/meminfo
MemTotal: 16093072 kB
HugePages_Total: 0
Hugepagesize: 2048 kB
```

```
/usr/bin/lsb_release -d
UnionTech OS Desktop 20 Pro
```

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Platform Notes (Continued)

```
From /etc/*release* /etc/*version*
debian_version: 10.9
deepin-version:
[Release]
Version=20
Type=Professional
Type[zh_CN]=ä, "ä, šç%^
Edition=Y2020E0001
Copyright=Y2020CR001
[Addition]
Milestone=
os-release:
PRETTY_NAME="UnionTech OS Desktop 20 Pro"
NAME="uos"
VERSION_ID="20"
VERSION="20"
ID=uos
HOME_URL="https://www.chinauos.com/"
BUG_REPORT_URL="http://bbs.chinauos.com"
VERSION_CODENAME=eagle
os-version:
[Version]
SystemName=UnionTech OS Desktop
SystemName[zh_CN]=ç»Ÿä¿;æ;É•çæ"•ä½œç³»ç»Ÿ
ProductType=Desktop
ProductType[zh_CN]=æ;É•ç
EditionName=Professional
EditionName[zh_CN]=ä, "ä, šç%^
MajorVersion=20

uname -a:
Linux i5-6400 4.19.0-amd64-desktop #4016 SMP Wed Jun 23 13:35:29 CST 2021
x86_64 GNU/Linux

run-level 5 Aug 5 21:25

SPEC is set to: /home/guee/spec2006
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sda5       ext4  404G   50G  334G  13% /home

(End of data from sysinfo program)
```

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

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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
```

Base Optimization Flags

C benchmarks:

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

C++ benchmarks:

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

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

Tested with SPEC CPU2006 v1.2.

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