

UserBenchmark

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Build a PC

Compare price vs. performance

MSI MS-16P6

Performance Results

ADD TO PC BUILD

TEST YOUR PC

Benchmarks - missing SSD

Gaming 32%

Sail boat

Desktop 86%

Aircraft carrier

Workstation 28%

Raft

Save results

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User guide

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PC Status

Overall this PC is performing way above expectations (88th percentile). This means that out of 100 PCs with exactly the same components, 12 performed better. The overall PC percentile is the average of each of its individual components. **This PC is likely operated by a technical master!**

Processor

With a brilliant **single core** score, this CPU is the business: It demolishes everyday tasks such as web browsing, office apps and audio/video playback. Additionally this processor can handle moderate workstation, and even light server workloads. Finally, with a gaming score of 86.5%, this CPU's suitability for 3D gaming is very good.

Graphics

32.9% is a below average 3D score (RTX 2060S = 100%). This GPU can handle older **games** but it will struggle to render recent games at resolutions greater than 1080p. (Note: general computing tasks don't require 3D graphics)

Memory

16GB is enough RAM to run any version of Windows and it's more than sufficient for nearly all games. 16GB also allows for very large file and system caches, software development and batch photo editing/processing.

OS Version

Windows 10 is the most recent version of Windows, and the best to date in our opinion.

System

Micro-Star GL63 8RD

Motherboard

MSI MS-16P6 (all builds)

Memory

12 GB free of 16 GB @ 2.7 GHz

Display

1920 x 1080 - 32 Bit colors,

OS

Windows 10

BIOS Date

20190522

Uptime

6.7 Days

Run Date

Apr 04 '21 at 10:35

Run Duration

126 Seconds

Run User

IDN-User

Background CPU

4%

Run History

19 hrs ago, 19 hrs ago, 16 mins ago, 7 mins ago.

PC Performing way above expectations (88th percentile)

Actual performance vs. expectations. The graphs show user score (x) vs user score frequency (y).

Processor

Intel

CORE i7

Intel Core i7-8750H

317,997 User benchmarks, average bench 77%

U3E1, 1 CPU, 6 cores, 12 threads

Base clock 2.2 GHz, turbo 3.65 GHz (avg)

Performing way above expectations (90th percentile)

86.5%

Excellent

Memory 94.6

1-Core 119

2-Core 230

87% 148 Pts

4-Core 423

8-Core 654

69% 538 Pts

64-Core 827

56% 827 Pts

Poor: 55%

Great: 89%

This bench: 86.5%

Graphics Card

Bench

3D DX9

3D DX10

3D DX11

https://www.userbenchmark.com/UserRun/41687543

1/5

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CPUGPUSSDHDDRAMUSBEFPSFPS PUBYouTubeCOMPAREBUILDTESTABOUT

GTX

94,097 User benchmarks, average bench 31%

MSI(1462 1219) ≥ 4GB

Driver: nvidiumpdx.dll Ver. 27.21.14.6192

✓ Performing way above expectations (94th percentile) ?

Poor: 23%

↑

Great: 33%

This bench: 32.9%

Lighting 40.6

Reflection 41.6

Parallax 39.2

33% 40.5 fps

MRender 38.1

Gravity 41.6

Splatting 27.2

33% 35.6 fps

32.9%
Below average

| Drives | Bench ? | Sequential ? | Random 4k ? | Deep queue 4k ? |
|--|---------|--------------|-------------|-----------------|
| <div><div><div><div>SAMSUNG</div><div>Samsung MZNLN128HAHQ-00000 128GB</div><div>2,317 User benchmarks, average bench 89%</div><div>19GB free (System drive)</div><div>Firmware: MVT2200Q</div><div>⚠ Relative performance n/a - sequential bench incomplete ?</div></div><div><div>Poor: 63%</div><div>↑</div><div>Great: 108%</div></div></div><div><div>HGST Travelstar 7K1000 2.5" 1TB</div><div>471,724 User benchmarks, average bench 61%</div><div>219GB free</div><div>Firmware: JB00A3U0</div><div>SusWrite @10s intervals: 116 111 108 110 111 111 MB/s</div><div>✓ Performing above expectations (84th percentile) ?</div></div><div><div>Poor: 39%</div><div>↑</div><div>Great: 77%</div><div>This bench: 72.4%</div></div></div> <div><div>Read 471</div><div>Write 442</div><div>Mixed 375</div><div>96% 429 MB/s</div><div>4K Read 34.2</div><div>4K Write 74.2</div><div>4K Mixed 47</div><div>151% 51.8 MB/s</div><div>DQ Read 359</div><div>DQ Write 305</div><div>DQ Mixed 324</div><div>245% 329 MB/s</div></div> | | | | |
| <div><div><div><div><div><div></div><div>Read 141</div><div>Write 121</div><div>Mixed 29</div><div>SusWrite 111</div></div><div>72.4%</div><div>Very good</div></div><div><div>Poor: 39%</div><div>↑</div><div>Great: 77%</div><div>This bench: 72.4%</div></div></div><div><div>4K Read 0.7</div><div>4K Write 1.4</div><div>4K Mixed 0.6</div><div>122% 0.9 MB/s</div></div></div></div> | | | | |

| Memory Kit | Bench ? | Multi core ? | Single core ? | Latency ? |
|--|---------|--------------|---------------|-----------|
| <div><div><div><div><div>SAMSUNG</div><div>Samsung M471A1K43CB1-CTD 8A94 D4H8GS26A8</div><div>16GB</div><div>21 User benchmarks, average bench 71%</div><div>2667, 2667 MHz</div><div>8192, 8192 MB</div><div>✓ Performing above expectations (83rd percentile) ?</div></div><div><div>Poor: 47%</div><div>↑</div><div>Great: 82%</div><div>This bench: 80.7%</div></div></div><div><div>MC Read 32.5</div><div>MC Write 29.9</div><div>MC Mixed 22.7</div><div>81% 28.4 GB/s</div><div>SC Read 18.2</div><div>SC Write 30.9</div><div>SC Mixed 24.3</div><div>70% 24.5 GB/s</div><div>Latency 58.2</div><div>69% 58.2 ns</div></div></div></div> | | | | |

Take a copy of your results

How to check your in-game FPS

System Memory Latency Ladder ?

L1/L2/L3 CPU cache and main memory (DIMM) access latencies in nano seconds.

UserBenchmark

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ID

CPU

GPU

SSD

HDD

RAM

USB

EFPS

FPS

PUB

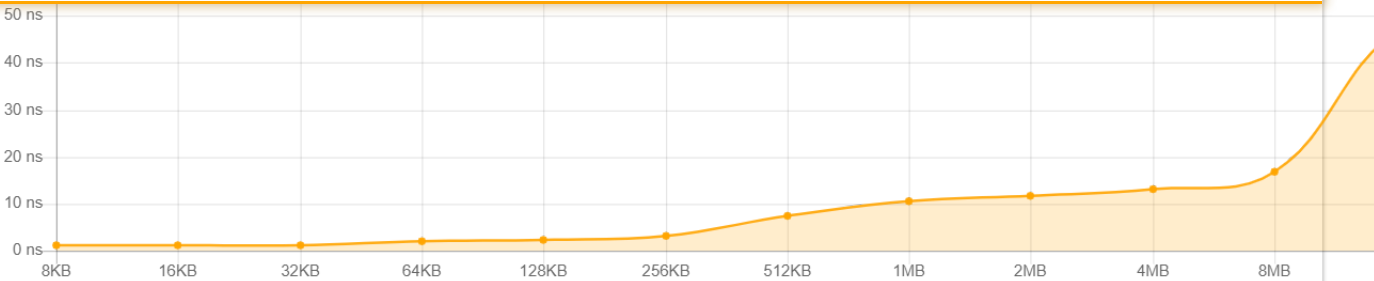
YouTube

COMPARE

BUILD

TEST

ABOUT



PC Games

Compare your in-game performance to other users with your hardware: GTX 1050-Ti (Mobile), Display(), 1536 x 864, 60 Hz.

1. Pick a game that you play on this PC.

Counter-Strike: Globa...

Grand Theft Auto V

Cyberpunk 2077

Valorant

Minecraft

Fortnite

League of Legends

Apex Legends

PlayerUnknown's Batt...

Escape from Tarkov

Overwatch

Rust

World of Warcraft

Destiny 2

Rocket League

Euro Truck Simulator 2

Call of Duty: Black Op...

World of Warcraft: Ba...

MORE GAMES

2. What settings do you play on?

Settings

Low

Med

High

Max

3. How many (uncapped) fps do you get?

Avg. fps

SUBMIT YOUR FPS

Custom PC Builder (Explore upgrades for this PC)

Build your perfect PC: compare component prices, popularity, speed and value for money.

CHOOSE AN UPGRADE:

CPU

GPU

SSD

HDD

RAM

MBD

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Gaming 8%
Tree trunk

Desktop 70%
Battleship

Workstation 7%
Tree trunk

Motherboard: MSI MS-16P6

| CPU | GPU | SSD | RAM |
|--|---|---|--|
| Core i7-8750H Intel Bench 77%, 317,997 samples 602x | UHD Graphics 630 Intel Bench 5%, 339,696 samples 621x | RBUSNS8180S3128GJ 128GB Kingston Bench 60%, 3,680 samples 168x | M471A1K43CB1-CTD 1x8GB Samsung Bench 40%, 67,815 samples 253x |
| Core i5-8300H Intel Bench 72%, 125,812 samples 568x | GTX 1050-Ti (Mobile) Nvidia Bench 31%, 94,097 samples 270x | RBUSNS8154P3128GJ 128GB Kingston Bench 71%, 14,950 samples 54x | HMA81GS6CJR8N-VK 1x8GB Hynix Bench 40%, 56,013 samples 108x |
| Core i7-7700k VH Intel Bench 67%, 18 samples 1x | GTX 1050 (Mobile) Nvidia Bench 25%, 133,704 samples 258x | THNSNJ256G8NY 256GB Toshiba Bench 79%, 8,896 samples 44x | M471A1K43CB1-CTD 2x8GB Samsung Bench 76%, 64,439 samples 78x |

[EDIT WITH CUSTOM PC BUILDER](#)

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The Best.

CPU

- Intel Core i5-11400F \$175
- Intel Core i5-10600K \$223
- Intel Core i5-10400F \$150

GPU

- Nvidia RTX 3070 \$500
- Nvidia RTX 3060-Ti \$400
- Nvidia RTX 3080 \$700

SSD

- Crucial MX500 250GB \$48
- Samsung 850 Evo 120GB \$78
- Samsung 860 Evo 250GB \$50

HDD

- Seagate Barracuda 1TB (2016) \$40
- WD Blue 1TB (2012) \$29
- Seagate Barracuda 3TB (2016) \$85

RAM

- Corsair Vengeance LPX DDR4 3200 C16 2x8GB \$79
- Corsair Vengeance LPX DDR4 3000 C15 2x8GB \$73
- G.SKILL Trident Z DDR4 3200 C14 4x16GB \$649

USB

- SanDisk Extreme 64GB \$72
- SanDisk Extreme 32GB \$28
- SanDisk Ultra Fit 32GB \$16

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Ebay

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HDD

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Build

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EFps

Can You Run It?

| | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|
|  YouTube *NEW* | | | | | | | | | | | | |
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