

UserBenchmark

USA-User

US

CPU GPU SSD HDD RAM USB EFPS FPS SkillBench YouTube

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MSI MS-17L4

Performance Results



Gaming 72%
Battleship



Desktop 105%
UFO



Workstation 69%
Battle cruiser

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User guide



PC Status

Overall this PC is performing above expectations (66th percentile). This means that out of 100 PCs with exactly the same components, 34 performed better. The overall PC percentile is the average of each of its individual components.

Processor

With an outstanding single core score, this CPU is the cat's whiskers: It demolishes everyday tasks such as web browsing, office apps and audio/video playback. Additionally this processor can handle typical workstation, and even moderate server workloads. Finally, with a gaming score of 94.3%, this CPU's suitability for 3D gaming is excellent.

Graphics

68.3% is a good 3D score. This GPU can handle the majority of recent games at high resolutions and ultra detail levels.

Boot Drive

452% is an exceptional SSD score. This drive is suitable for heavy workstation use, it will facilitate fast boots, responsive applications and allow for fast transfers of multi-gigabyte files.

Memory

32GB is enough RAM to run any version of Windows and it's far more than any current game requires. 32GB will also allow for large file and system caches, virtual machine hosting, software development, video editing and batch multimedia processing.

OS Version

Windows 11 is the most recent version of Windows.

System	Micro-Star Pulse GL76 12UDK
Motherboard	MSI MS-17L4 (all builds)
Memory	25.1 GB free of 32 GB @ 3.2 GHz
Display	1920 x 1080 - 32 Bit colors
OS	Windows 11
BIOS Date	20230216
Uptime	0 Days
Run Date	May 25 '23 at 18:39
Run Duration	109 Seconds
Run User	USA-User
Background CPU	0%

PC Performing above expectations (66th percentile)

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

Processor	Bench	Normal	Heavy	Server
<p>Intel Core i7-12700H 30,904 User benchmarks, average bench 97% U3E1, 1 CPU, 14 cores, 20 threads Base clock 2.7 GHz, turbo 3.25 GHz (avg) ▲ Performing below expectations (28th percentile)</p>	94.3% Outstanding	Memory 73.3 1-Core 191 2-Core 361 109% 208 Pts	4-Core 618 8-Core 895 95% 757 Pts	64-Core 1,359 84% 1,359 Pts
<p>Poor: 92% ↑ Great: 102% This bench: 94.3%</p>				

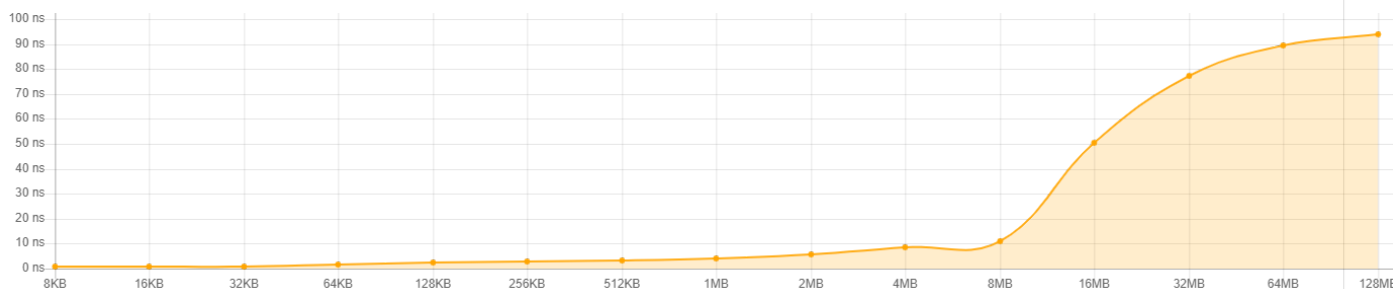
Graphics Card	Bench	3D DX9	3D DX10	3D DX11
<p>Nvidia RTX 3050-Ti (Laptop) 20,957 User benchmarks, average bench 61% MSI(1462 1332) ≥ 4GB Driver: nvdumdx.dll Ver. 31.0.15.3161 ▲ Performing below potential (80th percentile) - GPU OC Guide</p>	68.3% Good	Lighting 90.8 Reflection 85 Parallax 85.3 74% 87 fps	MRender 77.4 Gravity 69.6 Splattling 65.3 57% 70.8 fps	
<p>Poor: 41% ↑ Great: 74% This bench: 68.3%</p>				

Drive	Bench	Sequential	Random 4k	Deep queue 4k
<p>Samsung 990 Pro NVMe PCIe M.2 1TB \$100 5,891 User benchmarks, average bench 425% 645GB free (System drive) Firmware: 3B2QJXD7 Max speed: PCIe 5,000 MB/s SusWrite @10s intervals: 3993 4243 3308 1587 1482 1548 MB/s ✓ Performing above expectations (61st percentile)</p>	452% Outstanding	Read 3066 Write 4,550 Mixed 3,330 SusWrite 2,694 772% 3,410 MB/s	4K Read 73.3 4K Write 224 4K Mixed 112 373% 136 MB/s	DQ Read 1,136 DQ Write 1060 DQ Mixed 1,137 842% 1,111 MB/s
<p>Poor: 259% ↑ Great: 527% This bench: 452%</p>				

Memory Kit	Bench	Multi core	Single core	Latency
<p>Crucial CT16G45FRA32A.M8FF 2x16GB 560 User benchmarks, average bench 82% 2 of 2 slots used 32GB SODIMM DDR4 clocked @ 3200 MHz ✓ Performing way above expectations (96th percentile)</p>	103% Outstanding	MC Read 41.7 MC Write 37.2 MC Mixed 36 109% 38.3 GB/s	SC Read 20.4 SC Write 39.1 SC Mixed 27.5 83% 29 GB/s	Latency 93.9 43% 93.9 ns
<p>Poor: 54% ↑ Great: 102% This bench: 103%</p>				

System Memory Latency Ladder

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



SkillBench Score 0: 0P 0R 0G 0B (High Scores)

Measures user input accuracy relative to the given hardware.

Score	Hit Rate	Shots	EFps	0.1% Low	Refresh Rate	Screen	Resolution	Monitor
0%	0%	0	71	59	144	17.3"	1920 1080	AUO978F

PC Games

Compare your in-game performance to other users with your hardware: RTX 3050-Ti (Laptop), Display(), 1920 x 1080, 144 Hz.

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

2. What settings do you play on?

Settings

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

Avg. fps

MORE GAMES

Custom PC Builder (Explore upgrades for this PC)

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

CHOOSE AN UPGRADE:

Typical MS-17L4 Builds (Compare 251 builds)

See popular component choices, score breakdowns and rankings.

Gaming 26%
Raft

Desktop 99%
Nuclear submarine

Workstation 26%
Raft

Motherboard: MSI MS-17L4

CPU	GPU	SSD	RAM
Core i7-12700H Intel Bench 97%, 30,904 samples 193x	Iris Xe Graphics Intel Bench 17%, 41,224 samples 128x	Micron_2450_MTFDKBA512TFK 512GB Bench 235%, 2,522 samples 115x	M471A1K43EB1-CWE 2x8GB Samsung Bench 86%, 38,732 samples 143x
Core i5-12500H Intel Bench 94%, 5,627 samples 24x	RTX 3050-Ti (Laptop) Nvidia Bench 61%, 20,957 samples 58x	Micron_2450_MTFDKBA1T0TFK 1TB Bench 276%, 7,579 samples 31x	8ATF1G64HZ-3G2R1 2x8GB Micron Bench 83%, 10,127 samples 25x
Core i7-12650H Intel Bench 96%, 5,045 samples 17x	GeForce RTX 3050 Laptop GPU Nvidia Bench 54%, 21,526 samples 29x	MZVL4512HBLU-00BTW 512GB Samsung Bench 275%, 522 samples 27x	M471A1K43EB1-CWE 1x8GB Samsung Bench 40%, 14,450 samples 13x

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The Best.

CPU

- Intel Core i5-13600K **\$283**
- Intel Core i5-12600K **\$200**
- Intel Core i5-12400F **\$150**

GPU

- Nvidia RTX 3060 **\$310**
- Nvidia RTX 3060-Ti **\$300**
- Nvidia RTX 4070-Ti **\$815**

SSD

- Crucial MX500 250GB **\$27**
- Samsung 850 Evo 120GB **\$86**
- Samsung 860 Evo 250GB **\$52**

HDD

- Seagate Barracuda 1TB (2016) **\$35**
- WD Blue 1TB (2012) **\$30**
- Seagate Barracuda 2TB (2016) **\$67**

RAM

- Corsair Vengeance LPX DDR4 3200 C16 2x8GB **\$45**
- Corsair Vengeance LPX DDR4 3000 C15 2x8GB **\$43**
- G.SKILL Trident Z DDR4 3200 C14 4x16GB **\$381**

USB

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

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