Lenovo 81C8

Performance Results

ADD TO PC BUILD

TEST YOUR PC

Gaming 14%
Tree trunk

Desktop 59%
Gunboat

Workstation 38%
Jet ski

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System	Lenovo 81C8 (all builds)
Motherboard	LENOVO LNVNB161216
Memory	4.4 GB free of 8 GB @ 2.4 GHz
Display	1920 x 1080 - 32 Bit colors,
OS	Windows 10
BIOS Date	20180731
Uptime	0 Days
Run Date	Jul 28 '20 at 16:24
Run Duration	128 Seconds
Run User	IDN-User
Background CPU	1%
CPU Throttled	⚠ 89%

PC Status Overall this PC is performing as expected (41st percentile). This means that out of 100 PCs with exactly the same components, 59 performed better. The overall PC percentile is the average of each of its individual components.

Processor With an average single core score, this CPU can handle browsing the web, email, video playback and the majority of general computing tasks including light gaming when coupled with an appropriate GPU. Finally, with a gaming score of 50.9%, this CPU's suitability for 3D gaming is average.

Graphics 5.04% is a very low 3D score (RTX 2060S = 100%). This GPU can only handle very basic 3D games but it's fine for general computing tasks.

Boot Drive 161% 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 8GB is enough RAM to run any version of Windows and it's sufficient for the vast majority of games. 8GB is also enough for moderate file and system caches which result in a very responsive system.

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

⚠ CPU throttled at 89% by Windows. Ensure maximum processor state is set to 100% via Settings > System > Power & sleep > Additional power settings > Change plan settings > Change advanced power settings > Processor power management > Maximum processor state.

✔ PC Performing as expected (41st percentile)

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

Processor	Bench	Normal	Heavy	Server
Intel Core i7-8550U 110,024 User benchmarks, average bench 64% U3E1, 1 CPU, 4 cores, 8 threads Base clock 2 GHz, turbo 1.8 GHz (avg) ⚠ Performing way below expectations (13th percentile)	50.9% Above average	Memory 67.9 1-Core 53.3 2-Core 96 46% 72.4 Pts	4-Core 184 8-Core 279 30% 232 Pts	64-Core 286 19% 286 Pts

Poor: 45% ↑ This bench: 50.9% Great: 78%

Graphics Card	Bench	3D DX9	3D DX10	3D DX11

Graphic Card	Bench	3D DX9	3D DX10	3D DX11
Intel UHD Graphics 620 (Mobile Kaby Lake R)	5.04%	Lighting 22.8	MRender 15	
FAQ - How to force Optimus or Switchable discrete GPUs?	Terrible	Reflection 27	Gravity 17.7	
Legend(17AA 39CE) 1GB		Parallax 24	Splatting 29.8	
Driver: igdumdim64.dll Ver. 24.20.100.6286		6% 24.6 fps	5% 20.8 fps	
✔ Performing as expected (45th percentile)				

Poor: 4% Great: 6%
This bench: 5.04%

EFps Game Bottleneck...

Drives	Bench	Sequential	Random 4k	Deep queue 4k
Samsung PM961 NVMe PCIe M.2 256GB- Rp 668,868	161% Outstanding	Read 1,652 Write 1214 Mixed 826 SusWrite 347 224% 1,010 MB/s	4K Read 41.1 4K Write 79.4 4K Mixed 49.9 168% 56.8 MB/s	DQ Read 506 DQ Write 448 DQ Mixed 495 366% 483 MB/s
58,179 User benchmarks, average bench 184%				
204GB free (System drive) Firmware: 4L1QCXB7 Max speed: PCIe 5,000 MB/s SusWrite @10s intervals: 482 320 322 318 323 319 MB/s				
⚠ Performing below expectations (28th percentile)				

Poor: 103% Great: 238%
This bench: 161%

Seagate ST1000LM035-1RK172 1TB	66.5% Good	Read 110 Write 112 Mixed 47.7 SusWrite 121 71% 97.7 MB/s	4K Read 1.7 4K Write 1.6 4K Mixed 0.1 112% 1.13 MB/s	
248,441 User benchmarks, average bench 47%				
929GB free Firmware: LCM2 SusWrite @10s intervals: 96 125 128 127 128 124 MB/s				
✔ Performing way above expectations (88th percentile)				

Poor: 19% Great: 71%
This bench: 66.5%

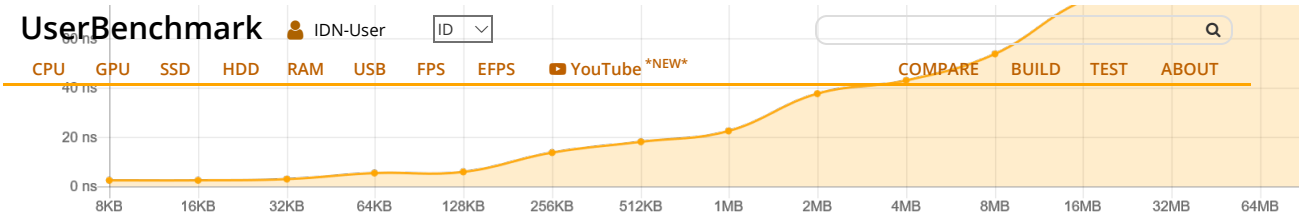
Memory Kit	Bench	Multi core	Single core	Latency
Samsung M471A1K43CB1-CRC 1x8GB	35.2% Below average	MC Read 14.2 MC Write 13.8 MC Mixed 10 36% 12.7 GB/s	SC Read 6.5 SC Write 9.7 SC Mixed 8.3 23% 8.17 GB/s	Latency 106 38% 106 ns
82,626 User benchmarks, average bench 37%				
1 of 2 slots used 8GB SODIMM DDR4 clocked @ 2400 MHz				
⚠ Performing below expectations (32nd percentile)				

Poor: 23% Great: 43%
This bench: 35.2%

Take a copy of your results </>

System Memory Latency Ladder

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



PC Games

Compare your in-game performance to other users with your hardware: UHD Graphics 620 (Mobile Kaby Lake R), Display(), 1280 x 720, 57 Hz.

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

Grand Theft Auto V	Counter-Strike: Global...	Fortnite
League of Legends	Minecraft	PlayerUnknown's Batt...
Tom Clancy's Rainbow...	Overwatch	Apex Legends
Call of Duty modern w...	DOTA 2	Assassin's Creed Odys...
Battlefield 5	ARK: Survival Evolved	X-Plane 11
Escape from Tarkov	Assassin's Creed Origi...	Microsoft Flight Simul...

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

Gaming 15%
Surfboard

Desktop 75%
Battleship

Workstation 45%
Yacht

System: Lenovo 81C8

CPU		GPU		SSD		RAM	
Core i5-8250U Intel Bench 64%, 158,956 samples	703x	UHD Graphics 620 (Mobile Kaby Lake R) Intel Bench 5%, 233,179 samples	894x	PM961 NVMe PCIe M.2 256GB Samsung Rp 668,868 Bench 184%, 58,179 samples	169x	RMSA3260MH78HAF-2666 1x8GB Ramaxel Bench 38%, 9,189 samples	226x
Core i7-8550U Intel Bench 64%, 110,024 samples	180x	940MX Nvidia Bench 10%, 24,179 samples	116x	600p Series NVMe PCIe M.2 256GB Intel Rp 1,140,223 Bench 116%, 39,631 samples	100x	M471A1K43CB1-CRC 1x8GB Samsung Bench 37%, 82,626 samples	119x
Core i3-8130U Intel Bench 58%, 13,250 samples	158x	MX130 Nvidia Bench 10%, 5,787 samples	31x	PM961 NVMe PCIe M.2 128GB Samsung Bench 169%, 7,463 samples	69x	HMA81GS6AFR8N-UH 1x8GB Hynix Bench 37%, 101,246 samples	100x

EDIT WITH CUSTOM PC BUILDER

Value: 45% - Average

Total price: Rp 668,868

The Best.

CPU

Intel Core i5-9600K $180
Intel Core i5-9400F $156
Intel Core i7-9700K $359

GPU

Nvidia GTX 1660S (Super) $230
Nvidia GTX 1650S (Super) $170
Nvidia RTX 2070S (Super) $510

SSD

Crucial MX500 250GB $45
Samsung 850 Evo 120GB $78
Samsung 860 Evo 250GB $46

HDD

Seagate Barracuda 1TB (2016) $42
WD Blue 1TB (2012) $24
Seagate Barracuda 3TB (2016) $85

RAM

Corsair Vengeance LPX DDR4 3200 C16 2x8GB $63
Corsair Vengeance LPX DDR4 3000 C15 2x8GB $73
G.SKILL Trident Z DDR4 3200 C14 4x16GB $681

USB

SanDisk Extreme 64GB $72
SanDisk Extreme 32GB $46
SanDisk Extreme 16GB $24

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Can You Run It?