

# Intel Core Ultra 5 225H, Core Ultra 7 255H and Core Ultra 9 285H CPU performance evaluation results are available on Geekbench

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Three SKUs from Intel's upcoming Arrow Lake-H mobile lineup have been tested on Geekbench, revealing pretty impressive single-core and multi-core performance and specifications.

Each SKU belongs to a different segment, corresponding to the Core Ultra 5, Core Ultra 7, and Core Ultra 9 product lines. These processors are Arrow Lake chips, but unlike the high-performance Core Ultra 200HX series, they will compete directly with AMD's top-of-the-line Strix Point and Strix Halo CPUs.

First up is the Core Ultra 5 225H. This chip scored 2665 in the single-core test and 14526 in the multi-core Geekbench 6 test. For comparison, it's on par with the Core Ultra 5 225F desktop processor but 10% faster in the multi-threaded test. This is because the 225H has 4 more cores in total than the 225F, although these are mostly power-efficient cores.

# LENOVO 21TL

2665

Single-Core Score

14526

Multi-Core Score

Geekbench 6.3.0 for Windows AVX2

Valid

## Result Information

Upload Date	December 27 2024 12:47 PM
Views	4

## System Information

### System Information

Operating System	Microsoft Windows 11 (64-bit)
Model	LENOVO 21TL
Motherboard	LENOVO LNVNB161216

### CPU Information

Name	Intel(R) Core(TM) Ultra 5 225H
Topology	1 Processor, 14 Cores
Identifier	GenuineIntel Family 6 Model 197 Stepping 2
Base Frequency	1.70 GHz
Cluster 1	4 Cores
Cluster 2	10 Cores
Maximum Frequency	4888 MHz
Codename	Arrow Lake
L1 Instruction Cache	64.0 KB x 7
L1 Data Cache	48.0 KB x 7
L2 Cache	3.00 MB x 1
L3 Cache	18.0 MB x 1

### Memory Information

Size	31.44 GB
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The specs show two clusters of 4 Performance cores (P-cores), 10 Efficiency cores (E-cores), a base clock of 1.70GHz and a boost clock of 4.9GHz. The L3 cache is 18MB and according to recent leaks, the Core Ultra 5 225H will offer a P-core Turbo frequency of up to 5.0GHz and an E-core Turbo frequency of 4.3GHz. The iGPU will also be decent with 7 Xe-LPG cores running at 2.0GHz.

Next up is the Core Ultra 7 255H. This is a powerful mid-range chip that features 16 cores via a 6 Performance core + 10 Efficiency core configuration. The processor will have a base clock of 2.0GHz and a boost clock of up to 5.1GHz. Again, this is identical to the leaked specs and as such, it is likely that the chip will have 24MB of L3 cache and 8 Xe-LPG cores for the GPU clocked at 2.25GHz.

# LENOVO 83KJ

2880

Single-Core Score

15815

Multi-Core Score

Geekbench 6.3.0 for Windows AVX2

Valid

## Result Information

Upload Date December 11 2024 04:24 PM

Views 38

## System Information

### System Information

Operating System	Microsoft Windows 11 Pro (64-bit)
Model	LENOVO 83KJ
Motherboard	LENOVO LNVNB161216
Power Plan	Balanced

### CPU Information

Name	Intel(R) Core(TM) Ultra 7 255H
Topology	1 Processor, 16 Cores
Identifier	GenuineIntel Family 6 Model 197 Stepping 2
Base Frequency	2.00 GHz
Cluster 1	6 Cores
Cluster 2	10 Cores
Maximum Frequency	5087 MHz
Codename	Arrow Lake
L1 Instruction Cache	64.0 KB x 8
L1 Data Cache	48.0 KB x 8
L2 Cache	3.00 MB x 2
L3 Cache	24.0 MB x 1

In terms of performance, the Core Ultra 7 255H is a bit slower than the desktop Core Ultra 7 265 (of course), and also slower in multi-threaded performance (single-thread: 2880, multi-thread: 15815). You should still take these numbers with a grain of salt, and Geekbench scores can vary significantly from test to test. However, the third SKU, the Core Ultra 9 285H, looks quite strong in both single-threaded and multi-threaded tests, scoring 3104 and 18006 points respectively.

Finally, the Core Ultra 9 285H is a 16-core processor, identical to the Core Ultra 7 255H, but with much higher clock speeds of 3.69GHz base and 5.4GHz P-Core boost. L3 cache remains the same at 24MB, and the 285H is rumored to offer Turbo E-core clocks of up to 4.5GHz and an 8-core Xe-based iGPU clocked at 235GHz. Unlike all the other SKUs in the Core Ultra 200H lineup, the Core Ultra 9 285H is the only chip rated at 45W, while the rest of the chips run at 28W.

## Default string Default string

3104

Single-Core Score

18006

Multi-Core Score

Geekbench 6.3.0 Corporate for Windows AVX2

Valid

### Result Information

Upload Date December 26 2024 02:02 PM

Views 26

### System Information

#### System Information

Operating System	Microsoft Windows 11 Pro (64-bit)
Model	Default string Default string
Motherboard	Default string Default string
Power Plan	Balanced

#### CPU Information

Name	Intel(R) Core(TM) Ultra 9 285H
Topology	1 Processor, 16 Cores
Identifier	GenuineIntel Family 6 Model 197 Stepping 2
Base Frequency	3.69 GHz
Cluster 1	6 Cores
Cluster 2	10 Cores
Maximum Frequency	5386 MHz
Codename	Arrow Lake
L1 Instruction Cache	64.0 KB x 8
L1 Data Cache	48.0 KB x 8
L2 Cache	3.00 MB x 2
L3 Cache	24.0 MB x 1

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