

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked


Intel Core i9-14900KF


Price and performance details for the Intel Core i9-14900KF can be found below. This is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

- The first graph shows the relative performance of the CPU compared to the 10 other common (single) CPUs in terms of PassMark CPU Mark.
- The 2nd graph shows the value for money, in terms of the CPUMark per dollar.
- The pricing history data shows the price for a single Processor. For multiple Processors, multiply the price shown by the number of CPUs.

Is the Intel Core i9-14900KF Good for Gaming?

This is a newly released CPU that contains 24 Cores and 32 Threads. The Intel Core i9-14900KF also has great single threaded performance that will serve well in games. Paired with a good [videocard](#), *is this CPU Good for Gaming?* Yes, this is a high end chip that would be great for gaming. [\[More ...\]](#)


 CPUS

 High End

High Mid Range


Low Mid Range

Low End


 Best Value (On Market)

Best Value XY Scatter

Best Value (All time)

 New Desktop

New Laptop

 Single Thread

Systems with Multiple CPUs

Overclocked

Power Performance

CPU Mark by Socket Type

Cross-Platform CPU Performar

Top Gamii

Intel Core i9-14900KF

Description:

Class:

Desktop

Socket:

FCLGA1700

Total Cores: 24 Cores, 32 Threads

Performance Cores: 8 Cores, 16 Threads, 3.2 GHz Base, 6.0 GHz Turbo

Efficient Cores: 16 Cores, 16 Threads, 2.2 GHz Base, 4.4 GHz Turbo

Typical TDP:

125 W

TDP Up

: 253 W

Cache per CPU Package:

L1 Instruction Cache: 8 x 32 KB

L1 Data Cache: 8 x 48 KB

L2 Cache: 8 x 2048 KB

L3 Cache: 36 MB

Cache per Eff. CPU Package:


Eff. L1 Instruction Cache: 16 x 64 KB

Eff. L1 Data Cache: 16 x 32 KB

Eff. L2 Cache: 4 x 4096 KB

Other names: Intel(R) Core(TM) i9-14900KF, Intel Core i9-14900KF

Average CPU Mark



60112

Single Thread Rating: 4715

Samples: 599*

*[Margin for error:](#) Low

+ COMPARE

CPUmark/\$Price: NA

Last Price Change: NA

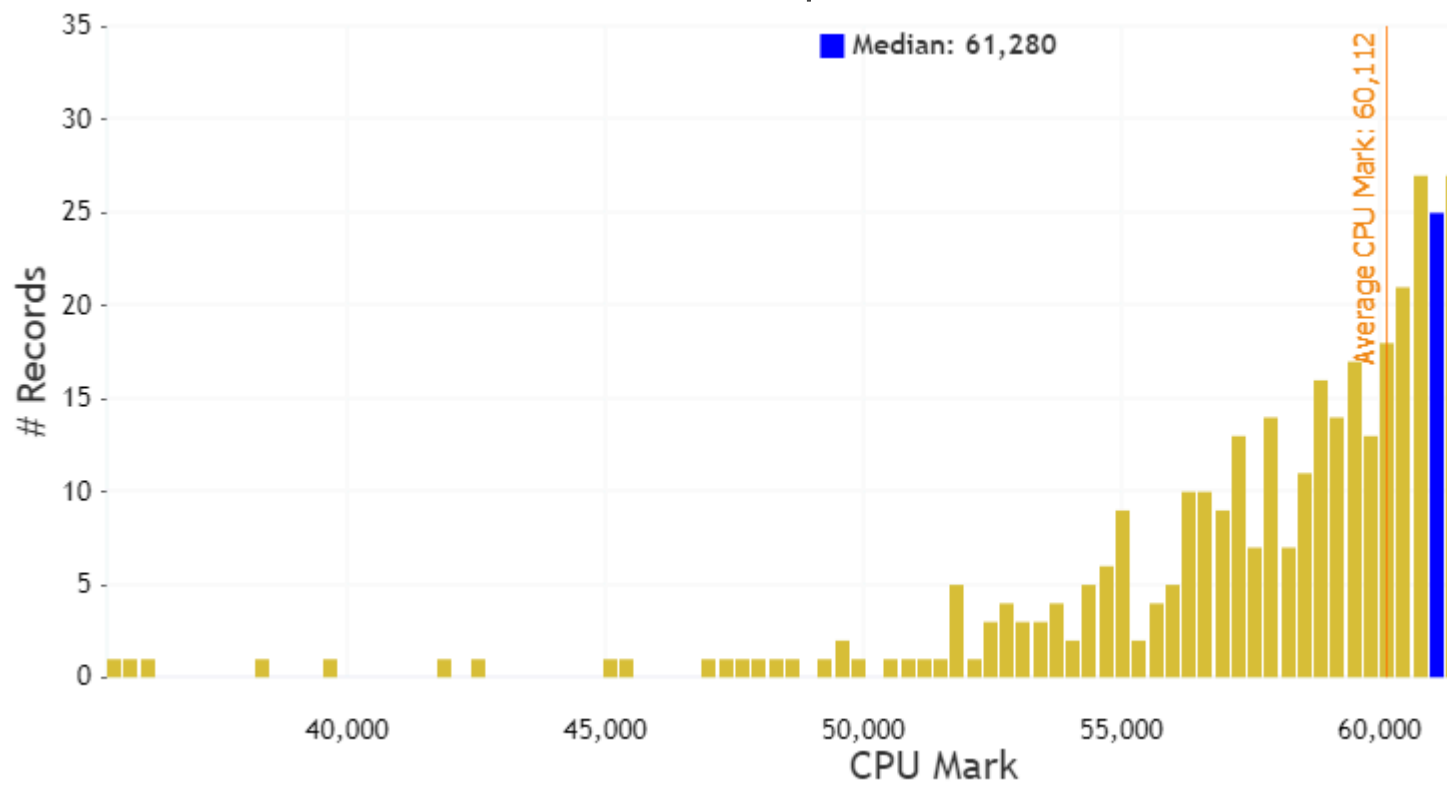
CPU Test Suite Average Results for Intel Core i9-14900KF

Integer Math	214,630 MOps/Sec
Floating Point Math	156,328 MOps/Sec
Find Prime Numbers	237 Million Primes/Sec
Random String Sorting	88,794 Thousand Strings/Sec
Data Encryption	48,180 MBytes/Sec
Data Compression	820,369 KBytes/Sec
Physics	3,239 Frames/Sec
Extended Instructions	46,649 Million Matrices/Sec
Single Thread	4,715 MOps/Sec

From submitted results to PerformanceTest V10 as of 5th of March 2024.

CPU Mark Distribution for Intel Core i9-14900KF

Submitted Baseline Distribution Graph as of 1st of March 2024



From submitted results to PerformanceTest V10 as of 1st of March 2024.

For distribution graph only: Results are [trimmed](#) to exclude outliers by disregarding the bottom 1% and top 1% of submissions.

Search for **Intel Core i9-14900KF**
from the Featured Merchants below:

amazon

newegg

BEST BUY

ebay

Note: PassMark Software may earn compensation for sales from links on this site through affiliate programs.

Machines with this CPU (or similar)

	iBUYPOWER Y60 Black Gaming PC Computer Desktop Y60BI9N4702 (Intel Core i9 14900KF, RTX 4070 12GB, 32GB DDR5 5600 RGB (16x2), 2TB NVMe, WiFi Ready, Windows 11 Home)	\$2099.99 <small>(www.amazon.com)</small>
	CLX Horus Gaming PC - Intel Core i9 14900KF 3.2GHz, GeForce RTX 4090, 2TB NVMe M.2 SSD, 6TB HDD, 64GB DDR5 RGB Memory, 360mm AIO, WiFi, Windows 11 Home, White	\$4399.99 <small>(www.amazon.com)</small>
	CyberPowerPC Gamer Xtreme VR Liquid Cool Gaming PC, Intel Core i9-14900KF 3.2GHz, GeForce RTX 4070 Super 12GB, 32GB DDR5, 1TB PCIe Gen4 SSD, WiFi Ready & Windows 11 Home (GXiVR8780A4)	\$1899.99 <small>(www.amazon.com)</small>
	Thermaltake LCGS Apollo i477T Gaming Desktop (Liquid Cooled Intel Core™ i9-14900KF, 32GB DDR5 5600MT/s RGB Memory, NVIDIA® GeForce RTX™ 4070 Ti, 2TB NVMe M.2, WiFi) C5AP-Z790-47T-LCS	\$2102.75 <small>(www.amazon.com)</small>
	Corsair Vengeance i7500 Series Gaming PC - Liquid Cooled Intel Core i9 14900KF CPU - NVIDIA GeForce RTX 4090 GPU - 64GB Vengeance RGB DDR5 Memory - 2TB M.2 SSD - Black	\$3999.99 <small>(www.amazon.com)</small>

Note: PassMark Software may earn compensation for sales from links on this site through affiliate programs.

CPU Mark Relative to Top 10 Common Desktop CPUs

As of 6th of March 2024 - Higher results represent better performance

Processor	Average CPU Mark
Intel Core i9-14900KF	60,112
Intel Core i9-13900K	59,409
Intel Core i9-12900K	41,359
Intel Core i7-12700K	34,675
	22,587

Apple M1 Max 10 Core 3200 MHz		22,013
Intel Core i9-9900K @ 3.60GHz		18,348
AMD Ryzen 5 3600		17,774
Apple M2 8 Core 3500 MHz		15,380
Apple M1 8 Core 3200 MHz		14,185

CPU Value (CPU Mark / \$Price)

As of 6th of March 2024 - Higher results represent better value

Processor	CPU Mark / \$Price	
AMD Ryzen 5 3600		212.89
AMD Ryzen 7 3700X		153.68
AMD Ryzen 5 5600X		140.11
Intel Core i9-12900K		117.17
Intel Core i9-13900K		104.23
Intel Core i7-12700K		84.78
Intel Core i9-9900K @ 3.60GHz		32.47
Intel Core i9-14900KF		NA
Apple M1 8 Core 3200 MHz		NA
Apple M2 8 Core 3500 MHz		NA
Apple M1 Max 10 Core 3200 MHz		NA

Single Thread Rating

As of 6th of March 2024 - Higher results represent better performance

Processor	Average Thread Rating	
Intel Core i9-14900KF		4,715
Intel Core i9-13900K		4,642
Intel Core i9-12900K		4,175
Intel Core i7-12700K		4,040
		3,932

Apple M1 Max 10 Core 3200 MHz		3,840
AMD Ryzen 5 5600X		3,360
Intel Core i9-9900K @ 3.60GHz		2,933
AMD Ryzen 7 3700X		2,661
AMD Ryzen 5 3600		2,568

Last 5 Baselines for Intel Core i9-14900KF

Most recent listed first

Baseline	CPU Mark
BL2042591 - Mar 05 2024	56567
BL2042427 - Mar 05 2024	63447
BL2042148 - Mar 05 2024	51222
BL2042100 - Mar 05 2024	64301
BL2042077 - Mar 05 2024	63342

Additional baselines can be obtained using Windows version of [PerformanceTest's Manage Baselines](#) feature.

Popular comparisons for Intel Core i9-14900KF

As of 6th of March 2024 - Higher results represent better performance

Processor	Average CPU Mark
Intel Core i9-14900KF	60,112
Intel Core i9-14900K vs Intel Core i9-14900KF	61,122 (+1.7%)
Intel Core i9-13900K vs Intel Core i9-14900KF	59,409 (-1.2%)
Intel Core i9-13900KF vs Intel Core i9-14900KF	58,670 (-2.4%)
Intel Core i7-14700K vs Intel Core i9-14900KF	53,743 (-10.6%)
Intel Core i7-14700KF vs Intel Core i9-14900KF	53,420 (-11.1%)
AMD Ryzen 9 7900X vs Intel Core i9-14900KF	51,986 (-13.5%)
Intel Core i7-13700K vs Intel Core i9-14900KF	46,598 (-22.5%)
Intel Core i7-14700KF vs Intel Core i9-14900KF	46,436 (-22.8%)
Intel Core i7-13700KF vs Intel Core i9-14900KF	34,403 (-42.8%)

Apple M2 Ultra 24 Core vs Intel Core i9-14900KF		48,741 (-18.9%)
Intel Core i7-14700 vs Intel Core i9-14900KF		47,650 (-20.7%)

Is the Intel Core i9-14900KF Good for Gaming?

As of 6th of March 2024 - Higher results represent better performance

Processor	Relative Gaming Score
AMD Ryzen 9 7900X3D	9,252
AMD Ryzen 7 7800X3D	9,071
Intel Core i9-13900KS	8,566
AMD Ryzen 9 7950X3D	8,409
Intel Core i9-14900F	8,270
Intel Core i9-14900K	8,180
Intel Core i9-14900KF	8,016
AMD Ryzen 5 5600X3D	7,863
Intel Core i9-13900K	7,796
AMD Ryzen Threadripper PRO 7945WX	7,602
Intel Core i7-14700K	7,547
Intel Core i7-13790F	7,532
Intel Core i9-13900KF	7,496



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