

CPU	Type	Device	Cores	Threads	Base (GHz)	Max Turbo (GHz)	GPU	TDP (W)	Release	Single Threaded					ST MEAN	Multi-Threaded							Comments	
										GB 5	GB 6	Spec2017 Int	Spec2017 FP	Spec2017 Mean		GB 5	GB 6	Spec2017 Int	Spec2017 FP	Spec2017 Mean	MT MEAN	MT Scaling		
M5	Mobile	iPad Pro/Macbook	4P+6E	10	3.0/4.6		10-core	25-30	Q4 2025		4250						17500						3 nm (N3P)	
SnapDragon X2E-96-100	Mobile		18	18	0.7-3.6	5.0	Adreno 8	60-100	Q4 2025		4050						23500						Oryon Gen 3 (3 nm)	
A19	Mobile	iPhone 17	4P+2E	6	4.0			4-12	Q3 2025		3600						8100						3-nm	
Ryzen 9985WX	Desktop								Q3 2025		3500						35000						Zen-5 4-nm, 8.3 billion transistors	
AMD EPYC 9965	Server		192	384	2.25	3.7	n/a	450-500	Q4 2024	1800	1500					100000							Zen-5c, Top-end AMD server chip in 2025	
Intel Xeon 6980P	Server		128	256	2.0	3.9	n/a	500	Q4 2024	1400	2050					112000	8250						5-nm	
Ryzen 7 9800X3D	Desktop		8	16	4.7	5.2	RDNA 2	120	Q4 2024		3400						19500						Zen-5 4-nm, 8.3 billion transistors	
Ryzen 9 9950X	Desktop		16	32	4.3	5.7	Radeon	170	Q3 2024		3400						23000						Top-end AMD desktop for 2024, Zen-5 4-nm, 13.14 billion transistors	
Intel Ultra 9 285K	Desktop		8P+16E	24	3.2/3.7	4.6/5.7	Xe-LPG	125-250	Q4 2024		3400						23000						Top-end Intel CPU for 2024, 3-nm, 18 billion transistors	
M4 Max	Desktop	Mac Studio	12P+4E	16	3.0/4.5		40-core	80	Q4 2024		4000						26500						3-nm, 110(?) billion transistors	
Intel Ultra 9 288V	Mobile		4P+4E	8	3.3	3.7/5.1	Arc140V	30	Q4 2024		2850						11000						3-nm	
Intel Ultra 7 258V	Mobile		4P+4E	8	2.2	3.7/4.8	Arc140V	17	Q3 2024		2700						10500						3-nm	
SnapDragon X Elite	Mobile	Surface Pro 11	12	12	3.3	3.8/4.3	Adreno	23	Q2 2024		2750						14000						4-nm, 25 billion transistors	
A18 Bionic	Mobile	iPhone 16	4P+2E		4.0		5-core	4-9	Q3 2024		3300						8100						3-nm	
M4 Pro	Mobile		10P+4E	14	3.0/4.5		20-core	40	Q4 2024		3900						23000						3-nm, 45(?) billion transistors	
M4	Mobile		4P+6E	10	2.9/4.4		10-core	15	Q2 2024		3700						13500						3-nm (2nd gen), 28 billion transistors	
AMD EPYC 9654	Server		96	192	2.4	3.7	n/a	360	Q4 2022	1500	2000					65000	23500						Zen-4 Genoa, Top-end AMD server chip ("4th gen") beginning 2023	
Ryzen 7995WX (Threadripper)	Workstation		96	192	2.5	5.1	n/a	350	Q4 2023	2000	2750					58000	24500						TSMC 5nm FinFET	
Intel Xeon W9-3495X	Server		56	112	1.9	4.8	n/a	350	Q1 2023	1600	2000					30000	18000						"Intel 7" lithography	
Intel Xeon "Max" 9480	Server		56	112	1.9	3.5	n/a	350	Q1 2023	1000	1900					40000	5900?						"Intel 7" lithography	
M3 Max	Desktop	Mac Studio	12P+4E	16	2.75	4.05	40-core	50 - 80	Q4 2023	2300	3200					22300	21200						3-nm, 92 billion transistors	
Core i9-14900K	Desktop		8P+16E	32	2.4/3.2	4.4/6.0	UHD 770	125-253	Q4 2023	2200	3200					27000	23500						Top-end Intel CPU begin 2024, 14th-gen, "Intel 7" lithography	
M3 Pro	Mobile		6P+6E	12	2.75	4.05	18-core	30	Q4 2023	2300	3000					15100	15200						3-nm, 37 billion transistors	
M3	Mobile		4P+4E	8	2.75	4.05	10-core	20	Q4 2023	2300	3000					10200	11800						3-nm, 25 billion transistors	
Core i9-14900HX	Mobile		8P+16E	32	1.6/2.2	4.1/5.8	HD 14th-gen	55-157	Q1 2024	2100	2900					20000	17500						Top-end Intel mobile CPU beginning 2024, "Intel 7" architecture	
Intel Ultra 185H	Mobile		6P+10E	22	1.0/2.3	3.8/5.1	Arc	35-65	Q4 2023	1900	2000					13500	11200						New family of mobile	
Ryzen 9 PRO 7940HS	Mobile		8	16	4.0	5.2	780M	35-54	Q2 2023	1900	2600					11700	13300						TSMC 4nm FinFET	
Core i9-13900K	Desktop		8P+16E	32	2.2/3.0	4.3/5.8	UHD 770	125-253	Q4 2022	2240	2973	9.19 (P)	15.78 (P)	12.04 (P)	1.64	25406	20130	108.5	108.29	108.39	16.59	0.67	Top-end Intel CPU 2022, 13th-gen, 10-nm	
Ryzen 9 7950X	Desktop		16	32	4.5	5.7	Radeon	170	Q3 2022	2191	2936	9.39	15.07	11.90	1.61	22974	19288	113.28	92.56	102.40	15.34	0.62	Top-end AMD desktop for 2022, Zen-4 5-nm, 13.14 billion transistors	
Core i9-13980HX	Mobile		8P+16E	32	1.6/2.2	4.0/5.6	HD 13th-gen	55-157	Q1 2023	2139	2800					21303	15000						Top-end Intel mobile CPU beginning 2023	
Core i9-13900T	Mobile		8P+16E	32	0.8/1.1	3.9/5.1	UHD 770	35-106	Q1 2023	2100	2700					16000	15000						Top-end lower-power Intel mobile CPU 2023	
Ryzen 9 7945HX	Mobile		16	32	2.5	5.4	R610M	55	Q1 2023	2200	2718					21000	15503						Zen 4 5-nm	
M2 Ultra	Mobile	Mac Studio 2023	16P+8E	24	2.42	3.4/3.7	76-core	30 - 90	Q22023	1950	2773					28500	21323						5-nm, 134 billion transistors, Max Mem 192 GB	
M2 Max	Mobile	Macbook/Mini	8P+4E	12	2.42	3.4/3.7	38-core	36 - 89	Q12023	1950	2802					15000	14785						5-nm, 67 billion transistors	
M2	Mobile	Macbook/Mini	4P+4E	8	3.49		10-core	20	2023	1891	2650					8738	12000						5-nm, 20 billion transistors	
Xeon 8480	Workstation		56	112	2.0	3.8		350	2023	1498	2150					37500	18000							
Core i9-12900K	Desktop		8P+8E	24	3.2	5.2	UHD 770	125-240	Q4 2021	2000	2615	8.14 (P)	14.16 (P)	10.74 (P)	1.47	18500	15410	80.5	81.8	81.15	12.25	0.52	Top-end Intel CPU 2021	
Core i9-11900K	Desktop		8	16	3.5	5.3	UHD 750	125	Q1 2021	1840	2376	6.87	11.79	9.00	1.29	10942	11006	45.5	46	45.75	7.08	0.69	High-end Intel CPU 2021	
Ryzen 9 5980HS	Mobile		8	16	3	4.8	n/a	35	Q1 2021	1506				8.30	1.12	8100				34.60	5.29	0.59	High-end AMD mobile CPU	
Ryzen 9 5700G	Desktop		8	16	3.8	4.6	8-core	65	Q2 2021	1500	1983			8.50	1.13	9200	8742			43.00	6.29	0.70	High-end AMD desktop CPU w/integrated GPU	
Core i9-12900HK	Mobile		6P+8E	20	3.0	5.0	Iris Xe	35 - 115	Q1 2022	1850						9640						0.37	Top-end Intel mobile CPU 2021	
A16 Bionic	Mobile	iPhone 14 Pro Max	2P+4E	6	3.46		5-core	8	Q3 2022		2600						6650						0.40	4-nm, 16 billion transistors
Xeon W3375	Workstation		38	76	2.5	4	n/a	270	Q3 2021	1300						26500						1.46	Top-end Intel Xeon 2021	
AMD 3995WX	Workstation		64	128	2.7	4.2	n/a	280	Q3 2021	1232	1597					30495	14891	370	280	321.87	31.33	0.39	Top-end AMD server chip 2021	
M1 Ultra	Mac Studio	Mac Studio 2022	16P+4E	20	2.1/3.2	3.2	48-core	20 - 60	Q12022	1750	2387					23700	17918						Max memory 128 GB	
M1 Max	Desktop	Macbook/Mini	8P+2E	10	2.1/3.2	3.2	32-core	10 - 30	Q3 2021	1760	2405	7.49	12.83	9.80	1.31	12600	12461	53.4	81.1	65.81	9.11	0.69	Apple's flagship CPU 2021	
A15 Bionic	Mobile	iPhone 13	2P+4E	6	3.23		5-core		Q3 2021	1681	2199	7.28 (P) 2.42 (E)	10.15 (P) 3.03 (E)	8.60 (P) 2.71 (E)	1.20	4609	5216							5-nm, 16 billion transistors
Xeon Platinum 8380	Workstation		40	80	2.3	3.4	n/a	270	Q2 2021	750						17000							Platinum supports 8 sockets; Gold 4; Silver/Bronze 2	
Xeon Platinum 8280	Workstation		28	56	2.7	4	n/a	205	Q2 2019	1000		4.77	5.85	5.28	0.73	17821		106.17	107.82	106.99		0.85		
Ryzen 9 5950X	Desktop		16	32	3.4	4.9	n/a	105	Q4 2020	1672	2185	7.65	12.19	9.66	1.27	16518	12247	77.3	80.71	78.99	11.42	8.99	Top-end AMD Desktop CPU in 2020	
Core i9-10980XE	Desktop		18	36	3.0	4.8	n/a	165	Q4 2019	1162	1566					15432	11956						0.56	
Xeon W-1290P	Workstation		10	20	3.7	5.3	HD P630	125	Q2 2020	1405		5.84	7.89	6.79	0.98	10968		43.3	43.98	43.64	6.92	1.03	Very similar to Core i9-10900K	
Core i9-10900K	Desktop		10	20	3.7	5.3	UHD 630	125	Q2 2020	1405	1754	6.14	8.2	7.10	1.00	10968	9237	47.35	48.58					