

CPU	Type	Device	Cores	Threads	Base (GHz)	Max Turbo (GHz)	GPU	TDP (W)	Release	Single Threaded					Multi-Threaded					Comments					
										GB 5	GB 6	Spec2017 Int	Spec2017 FP	Spec2017 Mean	ST MEAN	GB 5	GB 6	Spec2017 Int	Spec2017 FP		Spec2017 Mean	MT MEAN	MT Scaling		
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") beginn		
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" lithograp		
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" archite		
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 t		
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 202	16P+8E	24	2.42	3.4/3.7	76-core	30-90	Q2 2023	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	Q1 2023	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							Top-end Intel mobile CPU 2021		
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 202	Mac Studio 202	16P+4E	20	2.1/3.2	3.2	48-core	20-60	Q1 2022	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	6	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						0.46	2 high-perf cores, 4 high-eff cores	
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	0.56	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								
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	48.59	47.97	7.25	0.80	Top-end Intel Desktop CPU in 2020		
Core i9-10910	Desktop		10	20	3.6	5	UHD 630	125	Q3 2020	1337	1637					9630	8183						0.60		
Core i9-9900	Desktop		8	16	3.1	5	UHD 630	65	Q2 2019	1296	1614					8091	7218	38	38	38.00	5.54	0.78			
M1	Mobile	Macbook/Mini	4P+4E	8	3.2		8-core	10-24	Q4 2020	1700	2354	6.66	10.37	8.31	1.19	7500	8404	28.85	38.71	33.42	5.01	#VALUE!	4 high-perf cores, 4 high-eff cores		
Core i9-10980HK	Mobile		8	16	2.4	5.3	UHD 630	45-65	Q3 2019	1300						7500								0.72	
Ryzen 9 4900H	Mobile		8	16	3.3	4.4	n/a	35-54	Q2 2020	1093	1544	4.75	6.56	5.58	0.78	7042	6764	31.62	33.15	32.38	4.77	0.82	Top-end AMD mobile CPU in 2020		
Core i7-8700	Desktop	Dell SFF	6	12	3.2	4.6	UHD 630	65	Q4 2017	1160	1511					5841	5896							0.73	
Ryzen 7 4800U	Mobile		8	16	1.8	4.2	n/a	10-25	Q2 2020	1023	1378	4.29	6.28	5.19	0.73	5836	5566	25.14	28.25	26.65	3.94	0.74			
Core i7-1185G7	Mobile	Surface Pro 8	4	8	1.2-3.0	4.8	Iris Xe	12-28	Q3 2020	1500	1731	6.3	9.5	8.00	1.10	5000	5309	21.7	27.5	24.43	3.49	0.99	Top-end Intel mobile in 2020		
Core i7-1065G7	Mobile		4	8	1.3	3.9	Iris Plus	15	Q3 2019	1225						4600								0.94	
A14 Bionic	Mobile	iPhone 12	6	6	2.99		4-core		Q4 2020	1590	2007	6.47 (P) 1.88 (E)	8.95 (P) 2.54 (E)	7.61 (P) 2.19 (E)	1.10	4100	4472						0.40	2 high-perf cores, 4 high-eff cores	
A11 Bionic	Mobile	iPhone X 2018	6	6	2.39		3-core		Q4 2017	919	1049					2373	1985						0.37	2 high-perf cores, 4 high-eff cores	
A11 Bionic	Mobile	iPhone 8+ 2020	6	6	2.39		Apple		Q3 2017	920	1025					2200	1699						0.33	2 high-perf cores, 4 high-eff cores	
Core i7-4610M	Mobile	Dell Laptop	2	4	3	3.7	HD 4600	37	Q1 2014	758	1040					1614	1943							0.99	
Core i5-6300U	Mobile	Surface Pro	2	4	2.4	3	HD 520	15	Q3 2015	645						1419								1.10	
A10 Fusion	Mobile	iPhone 7+ Q4 2	4	4	2.34		GT7600+		Q3 2016	770	785					1400	945							0.38	2 high-perf cores, 2 high-eff cores
Core i5-670	Desktop		2	4	3.46	3.73	HD	73	Q1 2010	500	485					1150	1033							1.11	
Apple A9	Mobile	iPhone 6S+ 201	2	2	1.85		GT7600		Q3 2015	550	603					1000	866							0.81	2 high-perf cores
Apple Cyclone (Apple A7)	Mobile	ipad mini 2 2012	2	2	1.3		G6430		Q4 2013	270						510								0.94	iPad Mini 2 2013
ARM Cortex-A9 (Apple ASX)	Mobile	ipad 3 2012	2	2	1		SGX543		Q1 2012	65						116								0.89	iPad 3 2012
ARM Cortex-A8 (Apple A4)	Mobile	ipad 1 2010	1																						