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Metal Benchmarks

Welcome to the Geekbench Metal Benchmark Chart. The data on this chart is calculated from [Geekbench 6](#) results users have uploaded to the Geekbench Browser. To make sure the results accurately reflect the average performance of each GPU, the chart only includes GPUs with at least five unique results in the Geekbench Browser.

[Geekbench 6](#) scores are calibrated against a baseline score of 2500 (which is the score of an Intel Core i7-12700 performing the same task). Higher scores are better, with double the score indicating double the performance.

Curious how your GPU compares? [Download Geekbench 6](#) and find out how it measures up to the GPUs on this chart.

This chart was last updated about 3 hours ago.

Device	Score
AMD Radeon RX 6950 XT	243908
AMD Radeon RX 6900XT	242476
AMD Radeon Pro 6900XT	228149
AMD Radeon Navi21	216646
AMD Radeon PRO W6900X	210057
AMD Radeon RX 6900 XTXH	209545
Apple M2 Ultra	208743
AMD Radeon RX 6900 XT	208535
AMD Radeon RX 6800 XT	196254
AMD Radeon PRO W6800X	184838
AMD Radeon PRO W6800	183925
AMD Radeon PRO W6800X Duo	173255
AMD Radeon RX 6800	166738
AMD Radeon HD GFX10 Family Unknown Prototype	156134
Apple M1 Ultra	152142
Apple M2 Max	131292
AMD Radeon Pro Vega II Duo	129863
AMD Radeon Pro Vega II	125800

Device	Score
AMD Radeon HD 6900 XT	121732
AMD Radeon RX 6650 XT	116501
AMD Radeon Pro 6600XT	108917
Apple M1 Max	108509
AMD Radeon RX 6600 XT	107245
AMD Radeon Navi23	106058
AMD Radeon Pro W6600X	103320
AMD Radeon HD RX 6650 XT	97969
AMD Radeon RX 6600	97778
AMD Radeon 6600XT	96900
AMD Radeon Pro W5700X	91504
AMD Radeon RX 5700 XT 50th Anniversary	89990
AMD Radeon RX 5700 XT	89550
AMD Radeon Pro RX 6600M	85904
AMD Radeon Pro Vega 64X	85244
AMD Radeon HD AMD RX 6600 XT	82723
AMD Radeon Pro W5600X	79450
AMD Radeon Pro W5700	79094
AMD AMD Radeon RX 6600 XT	78983
AMD Radeon RX 5600 XT	78542
AMD Radeon RX 5700	78379
AMD Radeon VII	78002
AMD Radeon Pro 5700XT	77202
Apple M2 Pro	76289
AMD Radeon Pro W5700XT	75427
AMD Radeon RX Vega 64	75098
AMD Radeon 5700XT	74647
AMD Radeon Pro Vega 56	74206
AMD Radeon Pro 5700 XT	74121
AMD Radeon Pro Vega 64	74004
AMD Radeon RX Vega 56	72352
AMD Radeon Pro WX 9100	70777
AMD Radeon Pro WX8200	70759
AMD Radeon Vega Frontier Edition	70606
AMD Radeon Pro Vega56	69229
AMD Radeon Pro 5700	67303
Apple M1 Pro	64127
AMD Sapphire Redeon RX 5700XT Nitro+ 8GB	64038
AMD Radeon Pro RX 5600XT	63945
AMD Radeon Vega	63154
AMD Radeon Pro Vega 48	61110
AMD Radeon Pro RX5700	60126
AMD Radeon HD 5700 XT	59012
AMD Radeon RX 590	58387
AMD Radeon Pro W5500X	56461
AMD Radeon Pro 5600M	56334

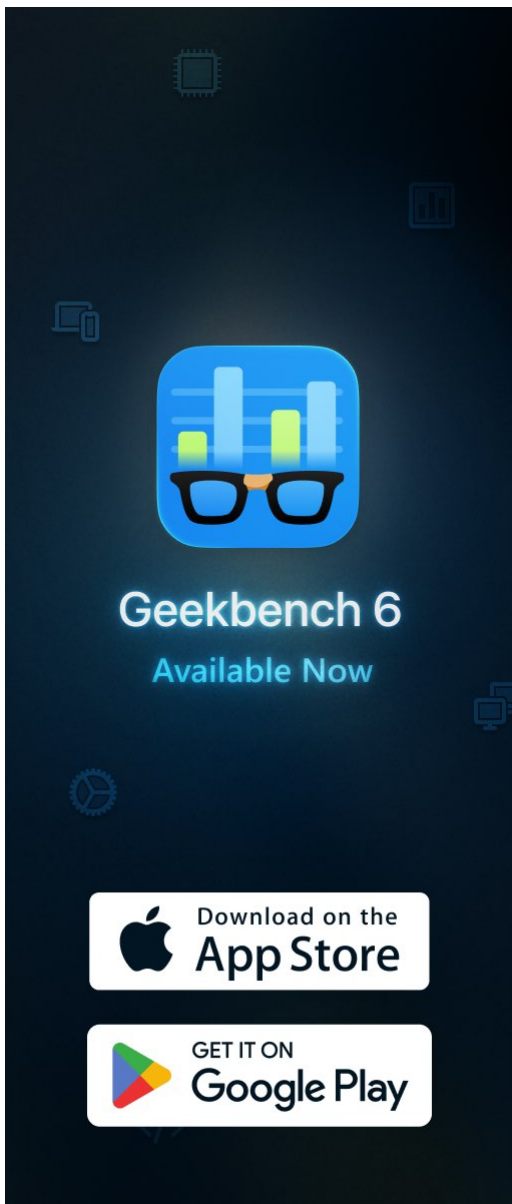
Device	Score
AMD Radeon RX 5500 XT	54889
AMD Radeon Pro RX 580	52863
AMD Radeon Pro W5500	52501
AMD Radeon Pro RX580	52332
AMD Radeon Navi14	52147
AMD Radeon Pro 5500 XT	52027
AMD Radeon RX 580	52011
AMD Redeon Pro 580	51062
AMD Radeon Pro 580X	50040
AMD Radeon Pro 580	49703
AMD Radeon Pro 5300	49309
AMD Radeon Pro 575X	47153
AMD Radeon RX 480	46616
AMD Radeon Pro 575	46260
AMD Radeon RX 570	45781
Apple M2 GPU	44695
AMD Radeon HD Hawaii PRO Prototype	43232
AMD Radeon Pro Radeon RX 580	42866
AMD Radeon HD Fiji XT Prototype	42827
Apple M2	42522
AMD Radeon HD Tahiti XT Prototype	42224
AMD Radeon HD Hawaii Unknown Prototype	41323
NVIDIA TITAN Xp COLLECTORS EDITION	41063
AMD Radeon Pro 570X	40316
AMD Radeon Pro 570	39852
AMD Radeon RX 470	39607
AMD RadeonPro 580X	39577
AMD Radeon Pro WX 7100	39481
AMD Radeon HD 5700X	39179
AMD Radeon Pro 5500M	37360
AMD Radeon HD 7950	34809
AMD Radeon Pro 480X	34491
AMD Radeon R9 M395X	33936
AMD Radeon HD - FirePro D700	33869
AMD Radeon R9 M295X	33830
AMD Radeon Pro Vega 20	33785
AMD Radeon Pro 5300M	32207
Apple M1 GPU	31547
AMD Radeon HD Tahiti LE Prototype	30680
NVIDIA GeForce GTX 1080 Ti	30624
Apple M1	30213
AMD Radeon HD Amethyst XT Prototype	29144
AMD Radeon Pro WX 5100	29142
AMD Radeon R9 M395	29020
AMD Radeon R9 M290X	28194
AMD Radeon R9 270X	28112

Device	Score
AMD Radeon HD Pitcairn Unknown Prototype	28054
AMD Radeon Rro W5500X	27973
AMD Radeon Pro Vega 16	26828
AMD Radeon HD Pitcairn PRO Prototype	26714
AMD Radeon HD - FirePro D300	25316
AMD Radeon HD - FirePro D500	24838
AMD Radeon RX 560	24590
AMD Radeon R9 M290	24474
Apple Paravirtual device	23991
AMD Radeon R9 M390	23917
NVIDIA GeForce GTX 1080	23824
AMD Radeon Pro 560X	22954
AMD Radeon Pro WX 4100	22623
NVIDIA GeForce GTX 1070 Ti	22180
Apple A16 GPU	22138
AMD Radeon RX 460	21050
AMD Radeon Pro 560	20718
AMD Radeon Pro 460	20500
AMD Radeon HD Saturn XT Prototype	20090
AMD Radeon Polaris	20016
AMD Radeon RX 550	19657
NVIDIA GeForce GTX 980 Ti	19520
NVIDIA GeForce GTX 1070	18801
NVIDIA GeForce GTX TITAN X	18723
Apple A15 GPU	18715
AMD Radeon R9 M380	18465
Apple A12Z GPU	18394
AMD Radeon Pro 555X	17609
AMD Radeon HD Emerald XT Prototype	17314
Apple A12X GPU	16572
AMD Radeon HD Bonaire Unknown Prototype	15985
AMD Radeon Pro 555	15971
AMD Radeon Pro 455	15771
Apple A14 GPU	15657
NVIDIA GeForce GTX 980	15163
NVIDIA GeForce GTX 1060 6GB	14587
AMD Radeon HD Verde XT Prototype	14555
AMD Radeon Vega 8	13962
AMD Radeon RX Vega10 Unknown Prototype	13885
NVIDIA GeForce GTX 970	13595
AMD Radeon HD 7770	13536
NVIDIA GeForce GTX 1060	13531
NVIDIA GeForce GTX 1060 3GB	13527
Apple A13 GPU	12953
AMD Radeon R9 M370X	12565
AMD Radeon Pro 450	12477

Device	Score
AMD Radeon Graphics	12234
AMD Radeon HD Verde PRO Prototype	11685
NVIDIA Quadro K6000	11048
AMD Radeon HD Venus XTX Prototype	10816
NVIDIA GeForce GTX TITAN	10616
NVIDIA GeForce GTX 780 Ti	9186
AMD Radeon HD Chelsea XT Prototype	8830
NVIDIA GeForce GTX 960	8773
Intel(R) Iris(TM) Plus Graphics 645	8736
Intel(R) Iris(TM) Plus Graphics 655	8723
NVIDIA Quadro K5200	8704
Apple A10X GPU	8430
Intel(R) Iris(TM) Plus Graphics	8388
Intel(R) Iris(TM) Plus Graphics 650	8209
Apple A12 GPU	8119
NVIDIA Tesla K20Xm	8035
Intel(R) Iris(TM) Plus Graphics 640	7903
NVIDIA GeForce GTX 690	7870
NVIDIA GeForce GTX 1050 Ti	7834
NVIDIA GeForce GTX 1050	7823
NVIDIA GeForce GTX 780	7778
Intel(R) Iris(TM) Pro Graphics 6200	7668
Intel(R) Iris(TM) Graphics 540	7219
NVIDIA GeForce GTX 950	7172
Intel(R) Iris(TM) Graphics 550	7132
NVIDIA GeForce GTX 660 Ti	6670
NVIDIA GeForce GTX 770	6311
NVIDIA GeForce GTX 680	6006
Intel(R) ??? Graphics 630	5871
Intel(R) UHD Graphics 630	5791
Intel(R) KBL Unknown	5597
Apple A9X GPU	5584
Intel(R) HD Graphics 630	5568
NVIDIA GRID K2	5557
Intel(R) Iris(TM) Graphics 6100	5381
NVIDIA Quadro K5100M	5204
NVIDIA GeForce GTX 750 Ti	5182
NVIDIA GeForce GTX 760	5108
Intel(R) HD Graphics 530	5015
NVIDIA GeForce GTX 880M	4995
Apple A11 GPU	4958
Intel(R) SKL Unknown	4927
NVIDIA GeForce GTX 860M	4900
Intel(R) Iris(TM) Graphics 6000	4868
NVIDIA GeForce GTX 680M	4815
Intel(R) UHD Graphics 617	4686

Device	Score
NVIDIA GeForce GT 1030	4637
NVIDIA GeForce GTX 780M	4463
NVIDIA GeForce GTX 750	4274
NVIDIA Quadro K5000	4255
Intel(R) HD Graphics 615	4201
NVIDIA Quadro K4100M	4068
Intel(R) HD Graphics Unknown	4036
NVIDIA GeForce GTX 775M	3961
Intel(R) HD Graphics 515	3874
Apple A10 GPU	3840
NVIDIA GeForce GTX 680MX	3800
NVIDIA GeForce GTX 675MX	3587
NVIDIA GeForce GTX 650 Ti	3363
Intel(R) HD Graphics 5300	2883
Apple A9 GPU	2823
NVIDIA Quadro K3100M	2815
NVIDIA GeForce GTX 745	2777
NVIDIA Quadro K2100M	2166
NVIDIA GeForce GT 755M	1978
Intel Iris Pro Graphics	1822
NVIDIA GeForce GT 750M	1695
NVIDIA Quadro K2000M	1676
Intel Iris Graphics	1670
NVIDIA GeForce GT 730	1635
NVIDIA Quadro K1100M	1540
NVIDIA GeForce GT 650M	1441
Intel HD Graphics 5000	1376
NVIDIA GeForce GTX 660M	1302
NVIDIA Quadro K610M	1176
NVIDIA GeForce GT 640M	1112
NVIDIA GeForce GT 710	1006
NVIDIA NVS 510	987
NVIDIA Quadro K1000M	947
NVIDIA Quadro 410	804
Apple A8X GPU	775
Apple A8 GPU	555
Intel HD Graphics 4000	426
Apple A7 GPU	26

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