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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 6 hours ago.

| Device | Score |
|--|--------|
| AMD Radeon RX 6900XT | 237041 |
| AMD Radeon RX 6900 XTXH | 228222 |
| AMD Radeon HD W6800X | 225732 |
| AMD Radeon Navi21 | 223084 |
| AMD Radeon RX 6950 XT | 218443 |
| AMD Radeon Pro W6900X | 209896 |
| Apple M2 Ultra | 208067 |
| AMD Radeon RX 6900 XT | 205324 |
| AMD Radeon PRO W6800X | 199318 |
| AMD Radeon RX 6800 XT | 197161 |
| AMD | 194422 |
| AMD Radeon PRO W6800X Duo | 181507 |
| AMD Radeon RX 6800 | 172348 |
| AMD Radeon HD GFX10 Family Unknown Prototype | 168506 |
| AMD Radeon PRO W6800 | 161864 |
| Apple M1 Ultra | 160210 |
| Apple M3 Max | 142493 |
| AMD Radeon RX 6750 XT | 141155 |
| AMD Radeon RX 6570 GRE | 139003 |

| Device | Score |
|---|--------------|
| AMD Radeon RX 6700 XT | 134800 |
| AMD Radeon Pro GFX10 Family Unknown Prototype | 131980 |
| Apple M2 Max | 131905 |
| AMD Radeon Pro Vega II Duo | 130378 |
| AMD Radeon Pro Vega II | 129793 |
| AMD Radeon RX 6700 | 125840 |
| AMD Radeon HD 6900 XT | 121732 |
| AMD Radeon RX 6000 Series | 121531 |
| AMD Radeon RX 6750 GRE | 118994 |
| AMD Radeon RX 6650 XT | 110692 |
| Apple M1 Max | 110494 |
| AMD Radeon RX 6600 XT | 108994 |
| AMD Radeon Pro W6600X | 106418 |
| AMD Radeon Navi23 | 105920 |
| AMD Radeon Pro rx6750xt | 104584 |
| AMD AMD Radeon Pro W5700X | 102688 |
| AMD Radeon RX 6600 | 98363 |
| AMD Radeon HD RX 6650 XT | 97969 |
| AMD Radeon 6600XT | 96900 |
| AMD Radeon Pro 5700X | 96531 |
| AMD Radeon Pro W5700X | 93762 |
| AMD Radeon RX 5700 XT | 93450 |
| AMD Radeon RX 6700M | 93259 |
| AMD Radeon PRO W6600 | 92608 |
| AMD Radeon Pro RX6600M | 89187 |
| AMD Radeon RX 6600M | 87150 |
| AMD Radeon RX 6800S | 87040 |
| AMD Radeon Pro RX 6600M | 85904 |
| AMD Radeon RX 5700 XT 50th Anniversary | 85498 |
| AMD Radeon HD AMD RX 6600 XT | 82723 |
| AMD Radeon RX 5700 | 82149 |
| AMD Radeon Pro Vega 64X | 82121 |
| AMD Radeon Pro Vega 64 | 81959 |
| AMD Radeon Pro W5700 | 80686 |
| AMD Radeon RX 5600 XT | 79683 |
| AMD Radeon RX 5600 | 79207 |
| AMD AMD Radeon RX 6600 XT | 78983 |
| AMD Radeon RX Vega 64 | 77329 |
| AMD Radeon Pro 5700XT | 77202 |
| AMD Radeon Pro 5700 XT | 77121 |
| Apple M2 Pro | 77025 |
| AMD Radeon VII | 77012 |
| AMD Radeon Pro W5700XT | 75427 |
| AMD Radeon 5700XT | 74647 |
| Apple M3 Pro | 73711 |
| AMD Radeon RX Vega 56 | 73062 |
| AMD Radeon Pro WX 9100 | 72794 |

| Device | Score |
|--|-------|
| AMD Radeon Vega | 72759 |
| AMD Radeon Pro Vega 56 | 72536 |
| AMD Radeon Pro 5700 | 71265 |
| AMD Radeon Pro WX8200 | 70759 |
| AMD Radeon Vega Frontier Edition | 70737 |
| AMD Radeon Pro Vega 48 | 69997 |
| AMD Radeon Pro Vega56 | 69229 |
| Apple M1 Pro | 65307 |
| AMD Sapphire Redeon RX 5700XT Nitro+ 8GB | 64038 |
| AMD Radeon Pro RX 5600XT | 63945 |
| AMD Radeon Pro RX5700 | 60126 |
| AMD Radeon HD 5700 XT | 59012 |
| AMD Radeon RX 590 | 58933 |
| AMD Radeon Pro W5500X | 55839 |
| AMD Radeon RX 5500 XT | 55452 |
| AMD Radeon Pro 5500 XT | 55187 |
| AMD Radeon Pro 5600M | 55012 |
| AMD Radeon HD Hawaii XT Prototype | 54647 |
| AMD Radeon Navi14 | 54150 |
| AMD Radeon Pro W5500 | 53384 |
| Apple M4 GPU | 53109 |
| AMD Radeon Pro RX 580 | 52863 |
| AMD Radeon RX Ellesmere Prototype | 52473 |
| AMD Radeon Pro RX580 | 52332 |
| AMD Radeon RX 580 | 51506 |
| AMD Radeon RX 480 | 51395 |
| AMD Redeon Pro 580 | 51062 |
| AMD Radeon Pro 580X | 50313 |
| AMD Radeon Pro 580 | 50057 |
| AMD Radeon Pro 5300 | 49874 |
| Apple M3 | 46222 |
| AMD Radeon Pro 575 | 46055 |
| AMD Radeon HD Fiji XT Prototype | 44714 |
| Apple M2 GPU | 44495 |
| AMD Radeon RX 570 | 44294 |
| AMD Radeon Navi10 | 43876 |
| Apple M2 | 43154 |
| AMD Radeon Pro Radeon RX 580 | 42866 |
| AMD Radeon HD Tahiti XT Prototype | 42638 |
| AMD Radeon Pro 575X | 41482 |
| AMD Radeon HD Hawaii Unknown Prototype | 41323 |
| NVIDIA TITAN Xp COLLECTORS EDITION | 41063 |
| AMD Radeon RX 470 | 40765 |
| AMD Radeon Pro 570X | 40389 |
| AMD Radeon Pro WX 7100 | 40330 |
| AMD Radeon Pro 570 | 39890 |
| AMD RadeonPro 580X | 39577 |

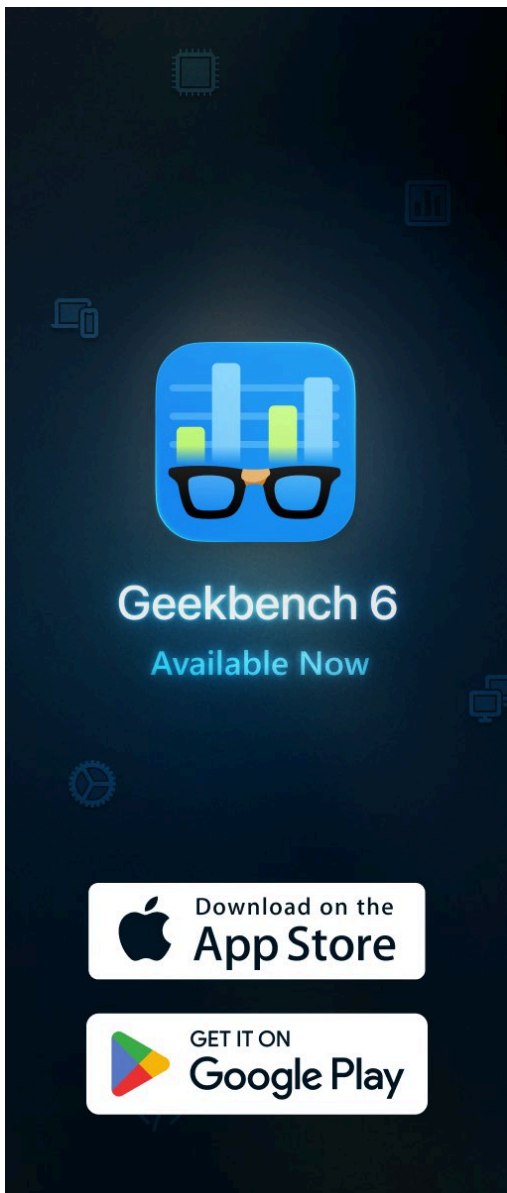
| Device | Score |
|--|--------------|
| AMD Radeon HD 5700X | 39179 |
| AMD Radeon Pro 5500M | 37040 |
| AMD Radeon Pro 480X | 34491 |
| AMD Radeon Pro Vega 20 | 33955 |
| AMD Radeon HD - FirePro D700 | 33943 |
| AMD Radeon R9 M295X | 33887 |
| AMD Radeon HD 7950 | 33658 |
| AMD Radeon R9 M395X | 33609 |
| Apple A18 Pro GPU | 32524 |
| AMD Radeon Pro 5300M | 32063 |
| Apple M1 GPU | 31888 |
| Apple M1 | 30834 |
| AMD Radeon HD Tonga PRO Prototype | 30716 |
| NVIDIA GeForce GTX 1080 Ti | 30624 |
| AMD Radeon Pro Vega 16 | 29639 |
| AMD Radeon HD Pitcairn XT Prototype | 29283 |
| AMD Radeon R9 M395 | 29278 |
| AMD Radeon HD Amethyst XT Prototype | 29144 |
| AMD Radeon HD Tahiti LE Prototype | 28794 |
| AMD Radeon R9 M290X | 28192 |
| AMD Radeon R9 270X | 28112 |
| AMD Radeon Pro WX 5100 | 28066 |
| AMD Radeon Rro W5500X | 27973 |
| AMD Radeon HD Pitcairn PRO Prototype | 27916 |
| AMD Radeon HD Pitcairn Unknown Prototype | 27428 |
| Apple A18 GPU | 27359 |
| Apple A17 Pro GPU | 26844 |
| AMD Radeon HD - FirePro D300 | 25771 |
| Apple Paravirtual device | 25580 |
| AMD Radeon HD - FirePro D500 | 24895 |
| AMD Radeon R9 M390 | 24393 |
| AMD Radeon R9 M290 | 24373 |
| AMD Radeon Pro 560X | 23837 |
| NVIDIA GeForce GTX 1080 | 23824 |
| AMD Radeon RX 560 | 23519 |
| AMD Radeon Polaris | 22976 |
| Apple A16 GPU | 22369 |
| NVIDIA GeForce GTX 1070 Ti | 22180 |
| AMD Radeon RX 460 | 21895 |
| AMD Radeon Pro 560 | 20871 |
| AMD Radeon Pro WX 4100 | 20856 |
| AMD Radeon Pro 460 | 20461 |
| AMD Radeon RX 550 | 19665 |
| NVIDIA GeForce GTX 980 Ti | 19520 |
| Apple A15 GPU | 18939 |
| NVIDIA GeForce GTX 1070 | 18801 |
| NVIDIA GeForce GTX TITAN X | 18723 |

| Device | Score |
|---|-------|
| Apple A12Z GPU | 18328 |
| AMD Radeon HD Saturn XT Prototype | 18141 |
| AMD Radeon Graphics | 18123 |
| AMD Radeon R9 M380 | 18094 |
| AMD Radeon HD 7790 | 17666 |
| AMD Radeon Pro 555X | 17622 |
| AMD Radeon Vega 11 | 17459 |
| AMD Radeon HD Bonaire Unknown Prototype | 16959 |
| Apple A12X GPU | 16443 |
| AMD Radeon Pro 555 | 16338 |
| AMD Radeon RX Vega10 Unknown Prototype | 16307 |
| Apple A14 GPU | 15936 |
| AMD Radeon HD Verde XT Prototype | 15865 |
| AMD Radeon Pro 455 | 15822 |
| AMD Radeon RX Vega 7 | 15793 |
| NVIDIA GeForce GTX 980 | 15163 |
| NVIDIA GeForce GTX 1060 6GB | 14587 |
| NVIDIA GeForce GTX 970 | 13595 |
| AMD Radeon HD 7770 | 13536 |
| NVIDIA GeForce GTX 1060 | 13531 |
| NVIDIA GeForce GTX 1060 3GB | 13527 |
| Apple A13 GPU | 13089 |
| AMD Radeon Vega 10 | 12974 |
| AMD Radeon Pro 450 | 12808 |
| AMD Radeon R9 M370X | 12575 |
| AMD Radeon HD Verde PRO Prototype | 11414 |
| AMD Radeon HD Venus XTX Prototype | 10688 |
| AMD Radeon Vega 8 | 10259 |
| NVIDIA GeForce GTX 780 | 9793 |
| AMD Radeon HD Chelsea XT Prototype | 8830 |
| NVIDIA GeForce GTX 960 | 8773 |
| Intel(R) Iris(TM) Plus Graphics | 8768 |
| Intel(R) Iris(TM) Plus Graphics 650 | 8368 |
| Intel(R) Iris(TM) Plus Graphics 645 | 8351 |
| Intel(R) Iris(TM) Plus Graphics 655 | 8347 |
| Apple A12 GPU | 8311 |
| Apple A10X GPU | 8208 |
| NVIDIA Quadro K6000 | 8089 |
| NVIDIA Tesla K20Xm | 8035 |
| Intel(R) Iris(TM) Plus Graphics 640 | 7946 |
| NVIDIA GeForce GTX 1050 Ti | 7834 |
| NVIDIA GeForce GTX 1050 | 7823 |
| Intel(R) Iris(TM) Pro Graphics 6200 | 7657 |
| Intel(R) Iris(TM) Graphics 550 | 7440 |
| Intel(R) Iris(TM) Graphics 540 | 7279 |
| NVIDIA GeForce GTX 950 | 7172 |
| NVIDIA GeForce GTX 680 | 5928 |

| Device | Score |
|---------------------------------|-------|
| NVIDIA GeForce GTX 770 | 5880 |
| Intel(R) UHD Graphics 630 | 5794 |
| Apple A9X GPU | 5731 |
| Intel(R) ??? Graphics 630 | 5694 |
| Intel(R) KBL Unknown | 5587 |
| NVIDIA GRID K2 | 5557 |
| Intel(R) HD Graphics 630 | 5545 |
| Intel(R) Iris(TM) Graphics 6100 | 5432 |
| Intel(R) Iris(TM) Graphics 6000 | 5406 |
| NVIDIA GeForce GTX 670 | 5234 |
| NVIDIA GeForce GTX 760 | 5222 |
| NVIDIA GeForce GTX 750 Ti | 5182 |
| Apple A11 GPU | 5061 |
| Intel(R) HD Graphics 530 | 5035 |
| NVIDIA GeForce GTX 860M | 4900 |
| NVIDIA GeForce GTX 680M | 4815 |
| AMD Radeon Vega 3 | 4797 |
| Intel(R) UHD Graphics 617 | 4744 |
| NVIDIA GeForce GTX 880M | 4706 |
| NVIDIA GeForce GT 1030 | 4637 |
| Intel(R) SKL Unknown | 4498 |
| Intel(R) HD Graphics 615 | 4422 |
| NVIDIA GeForce GTX 780M | 4412 |
| NVIDIA Quadro K4100M | 4361 |
| NVIDIA GeForce GTX 750 | 4274 |
| NVIDIA Quadro K5000 | 4263 |
| NVIDIA GeForce GTX 680MX | 4215 |
| Intel(R) HD Graphics Unknown | 4036 |
| Intel(R) HD Graphics 515 | 3928 |
| NVIDIA GeForce GTX 775M | 3920 |
| Apple A10 GPU | 3849 |
| NVIDIA GeForce GTX 675MX | 3522 |
| NVIDIA GeForce GTX 770M | 3448 |
| NVIDIA Quadro K4000 | 2872 |
| Apple A9 GPU | 2818 |
| NVIDIA GeForce GTX 745 | 2777 |
| Intel(R) HD Graphics 5300 | 2769 |
| NVIDIA GeForce GTX 765M | 2612 |
| NVIDIA Quadro K3100M | 2350 |
| NVIDIA GeForce GT 755M | 2308 |
| NVIDIA Quadro K2100M | 2193 |
| NVIDIA GeForce GTX 650 | 2038 |
| NVIDIA GeForce GT 740 | 1827 |
| NVIDIA GeForce GT 640 | 1819 |
| NVIDIA GeForce GT 750M | 1697 |
| NVIDIA GeForce GT 730 | 1662 |
| Intel Iris Pro Graphics | 1658 |

| Device | Score |
|-------------------------|--------------|
| NVIDIA Quadro K1100M | 1592 |
| Intel Iris Graphics | 1569 |
| NVIDIA GeForce GT 650M | 1396 |
| NVIDIA GeForce GTX 660M | 1385 |
| Intel HD Graphics 5000 | 1198 |
| NVIDIA GeForce GT 630 | 1119 |
| NVIDIA GeForce GT 640M | 1114 |
| NVIDIA GeForce GT 710 | 968 |
| NVIDIA GeForce GT 720 | 910 |
| NVIDIA Quadro K600 | 895 |
| NVIDIA Quadro 410 | 804 |
| Apple A8X GPU | 763 |
| Apple A8 GPU | 550 |
| Intel HD Graphics 4000 | 310 |
| Apple A7 GPU | 26 |

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