Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
128 DDR Radeon 9700 TX w/TV-Out	44	1468
128MB DDR Radeon 9800 Pro	66	1410
128MB RADEON X600 SE	49	1453
256MB RADEON X600	67	1403
7900 MOD - Radeon HD 6520G	610	846
A6 Micro-6500T Quad-Core APU with RadeonR4	220	1144
ABIT Siluro T400	3	1653
ALL-IN-WONDER 9000	4	1630
ALL-IN-WONDER RADEON 8500DV	5	1619
All-in-Wonder X1900	127	1251
ALL-IN-WONDER X800 GT	84	1357
ASUS EAH4870x2	496	962
Barco MXRT 5400	1161	470
Barco MXRT 5450	992	550
Barco MXRT 7500	4319	177
Embedded Radeon E9173	1996	320
Famille de jeu de puces Express Intel 946GZ	7	1595
FireGL T2-128	30	1523
FireGL V3100	52	1440
FireGL V3200	84	1354
FireGL V3300	70	1392
FireGL V3350	68	1399
FireGL V3400	103	1305
FireGL V3600	179	1196
FireGL V5100	92	1335
FireGL V5200	114	1274
FireGL V5600	341	1057
FireGL V7200	113	1276
FireGL V7300	128	1249
FireGL V7350	110	1286
FireGL V7600	615	842
FireGL V7700	660	793
FireGL V8650	550	909
FireGL X1	59	1426
FireMV 2200 PCIe	36	1497
FireMV 2250	45	1461
FireMV 2260	117	1266
FireMV 2400 PCIe	11	1581
FirePro 2260	113	1278
FirePro 2270	226	1139
FirePro 2450	51	1444
FirePro 2460	215	1149
FirePro 3D V3700	178	1199
FirePro 3D V3750	341	1056
FirePro 3D V3800	472	980

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
FirePro 3D V4800	1168	467
FirePro 3D V5700	546	917
FirePro 3D V5800	1486	394
FirePro 3D V7750	540	928
FirePro 3D V7800	1834	339
FirePro 3D V8700	1206	461
FirePro 3D V8750	1271	444
FirePro 3D V8800	2437	271
FirePro 3D V9800	2811	253
FirePro M2000	622	832
FirePro M4000	1623	371
FirePro M4000 Mobility Pro	1706	359
FirePro M40003	1364	415
Firepro M4100	1059	511
FirePro M4150	1113	491
FirePro M4170	1086	497
FirePro M5100	2102	307
FirePro M5950	1314	426
FirePro M6000 Mobility Pro	1734	353
FirePro M6100	2980	244
FirePro M6100 FireGL V	3487	210
FirePro M7740	665	786
FirePro S10000	5232	141
FirePro S7000	4166	184
FirePro S9000	5059	145
FirePro V3800	472	978
FirePro V3900	873	614
FirePro V4900	1301	430
FirePro V5700	464	985
FirePro V5900	1530	389
FirePro V7000 Adapter	3161	229
FirePro V7900	2739	256
FirePro V9800 Adapter	2761	255
FirePro W2100	902	597
FirePro W4100	1602	375
FirePro W4100 Adapter	1692	361
FirePro W4170M	1391	410
Firepro W4190M	1298	432
FirePro W4300	2908	249
FirePro W5000	3086	235
FirePro W5100	3020	241
FirePro W5130M	1684	364
Firepro W5170M	2191	298
FirePro W600	1703	360
FirePro W7000	4338	174

FirePro W7000 Adapter	4084	186
FirePro W7100	5399	132
FirePro W7100 Adapter	5553	129
FirePro W7170M	4578	162
FirePro W8000	4609	161
FirePro W8000 Adapter	4751	154
FirePro W8100	6085	114
FirePro W8100 Graphic Adapter	7570	95
FirePro W9000	5305	138
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
FirePro W9100	7189	101
FireStream 9250	1164	468
FireStream 9270	1341	419
GeForce 205	126	1254
GeForce 210	171	1203
GeForce 256	5	1628
GeForce 305M	190	1186
GeForce 310	202	1169
GeForce 310M	209	1158
GeForce 315	249	1125
GeForce 315M	208	1159
GeForce 320M	271	1105
GeForce 405	211	1153
GeForce 410M	354	1047
GeForce 505	191	1185
GeForce 510	310	1079
GeForce 605	322	1068
GeForce 6100	21	1557
GeForce 6100 nForce 400	25	1540
GeForce 6100 nForce 405	22	1555
GeForce 6100 nForce 420	25	1539
GeForce 6100 nForce 430	23	1551
GeForce 610M	405	1022
GeForce 615	548	911
GeForce 6150	21	1556
GeForce 6150 LE	21	1558
GeForce 6150SE	24	1545
GeForce 6150SE nForce 430	22	1552
GeForce 6200	44	1467
GeForce 6200 A-LE	32	1517
GeForce 6200 LE	26	1535
GeForce 6200 TurboCache	38	1488
GeForce 6200SE TurboCache	28	1528
GeForce 6500	37	1493
GeForce 6600	62	1417
GeForce 6600 GT	101	1309

GeForce 6600 LE	51	1443
GeForce 6610 XL	88	1350
GeForce 6700 XL	97	1320
GeForce 6800	112	1282
GeForce 6800 GS	136	1239
GeForce 6800 GS/XT	102	1306
GeForce 6800 GT	142	1226
GeForce 6800 LE	109	1291
GeForce 6800 Ultra	138	1235
GeForce 6800 XT	101	1310
GeForce 7000M	13	1574
GeForce 7000M / nForce 610M	12	1575
GeForce 7025 / nForce 630a	25	1541
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
GeForce 7050 / nForce 610i	27	1529
GeForce 7050 / nForce 620i	31	1520
GeForce 7050 / nForce 630i	27	1534
GeForce 7050 PV / nForce 630a	22	1554
GeForce 705M	455	989
GeForce 7100 / nForce 630i	31	1519
GeForce 7100 GS	43	1469
GeForce 710A	538	929
GeForce 710M	571	885
GeForce 7150 / nForce 630i	33	1513
GeForce 7150M / nForce 630M	18	1565
GeForce 720A	724	726
GeForce 7300 GS	66	1409
GeForce 7300 GT	108	1293
GeForce 7300 LE	55	1437
GeForce 7300 SE	39	1487
GeForce 7300 SE/7200 GS	42	1474
GeForce 730A	808	653
GeForce 7350 LE	74	1383
GeForce 7500 LE	69	1397
GeForce 7600 GS	134	1243
GeForce 7600 GT	182	1193
GeForce 7650 GS	134	1245
GeForce 7800 GS	177	1200
GeForce 7800 GT	196	1177
GeForce 7800 GTX	223	1140
GeForce 7900 GS	219	1145
GeForce 7900 GT	258	1118
GeForce 7900 GT/GTO	247	1126
GeForce 7900 GTX	306	1082
GeForce 7950 GT	264	1113
GeForce 7950 GX2	197	1175

GeForce 800A	428	1007
GeForce 800M	555	900
GeForce 8100 / nForce 720a	81	1369
GeForce 810A	638	814
GeForce 810M	483	967
GeForce 8200	79	1375
GeForce 8200M G	56	1434
GeForce 820A	700	754
GeForce 820M	620	838
GeForce 825M	764	689
GeForce 8300	91	1344
GeForce 8300 GS	66	1405
GeForce 830A	1004	539
GeForce 830M	903	596
GeForce 8400	100	1312
GeForce 8400 GS	112	1280
GeForce 8400 SE	68	1400
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
GeForce 8400M G	58	1428
GeForce 8400M GS	81	1365
GeForce 8400M GT	98	1319
GeForce 840A	878	609
GeForce 840M	925	583
GeForce 845M	1142	479
GeForce 8500 GT	136	1240
GeForce 8600 GS	141	1227
GeForce 8600 GT	241	1129
GeForce 8600 GTS	284	1096
GeForce 8600M GS	123	1256
GeForce 8600M GT	168	1208
GeForce 8700M GT	206	1163
GeForce 8800 GS	543	923
GeForce 8800 GT	747	705
GeForce 8800 GTS	605	850
GeForce 8800 GTS 512	833	632
GeForce 8800 GTX	762	693
GeForce 8800 Ultra	769	687
GeForce 8800M GTS	474	977
GeForce 8800M GTX	542	927
GeForce 9100	82	1363
GeForce 9100M G	75	1381
GeForce 910M	495	963
GeForce 9200	80	1374
GeForce 9200M GE	81	1372
GeForce 9200M GS	84	1356
GeForce 920A	919	587

GeForce 920M	737	720
GeForce 920MX	1091	495
GeForce 9300	126	1252
GeForce 9300 / nForce 730i	129	1248
GeForce 9300 GE	101	1311
GeForce 9300 GS	91	1341
GeForce 9300GE	97	1323
GeForce 9300M G	85	1353
GeForce 9300M GS	94	1328
GeForce 930A	1219	459
GeForce 930M	961	569
GeForce 930MX	1241	450
GeForce 9400	139	1233
GeForce 9400 GT	186	1189
GeForce 9400M	118	1264
GeForce 9400M G	124	1255
GeForce 940A	1031	524
GeForce 940M	1001	543
GeForce 940MX	1367	414
GeForce 945M	1509	391
GeForce 9500 GS	277	1101
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
GeForce 9500 GT	272	1104
GeForce 9500M	103	1303
GeForce 9500M G	166	1210
GeForce 9500M GS	179	1197
GeForce 9600 GS	445	994
GeForce 9600 GSO	515	945
GeForce 9600 GSO 512	503	953
GeForce 9600 GT	728	723
GeForce 9600M GS	231	1138
GeForce 9600M GT	259	1117
GeForce 9600M GT / GeForce GT 220M	293	1091
GeForce 9650M GS	270	1106
GeForce 9650M GT	254	1123
GeForce 9700M GT	317	1074
GeForce 9700M GTS	478	971
GeForce 9800 GT	707	746
GeForce 9800 GTX	769	686
GeForce 9800 GTX+	897	599
GeForce 9800 GTX/9800 GTX+	878	608
GeForce 9800 GX2	797	661
GeForce 9800 S	635	818
GeForce 9800M GS	547	916
GeForce 9800M GT	475	973
GeForce 9800M GTS	645	810

GeForce 9800M GTX	517	942
GeForce 999 GTX	110	1287
GeForce FX 5200	7	1594
GeForce FX 5200 Ultra	12	1578
GeForce FX 5200LE	7	1599
GeForce FX 5200SE	11	1580
GeForce FX 5500	8	1591
GeForce FX 5600	12	1576
GeForce FX 5600 Ultra	17	1569
GeForce FX 5600XT	9	1589
GeForce FX 5700	40	1478
GeForce FX 5700 Ultra	34	1507
GeForce FX 5700LE	24	1543
GeForce FX 5700VE	33	1512
GeForce FX 5900	34	1503
GeForce FX 5900 Ultra	41	1477
GeForce FX 5900XT	40	1481
GeForce FX 5950 Ultra	59	1425
GeForce FX Go 5200	8	1590
GeForce FX Go 5600	17	1568
GeForce FX Go5300	12	1577
GeForce FX Go5650	16	1570
GeForce FX Go5700	51	1442
GeForce G 103M	105	1299
GeForce G 105M	112	1283
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
GeForce G100	99	1313
GeForce G102M	93	1329
GeForce G105M	179	1198
GeForce G200	131	1246
GeForce G205M	91	1342
GeForce G210	169	1207
GeForce G210M	199	1173
GeForce Go 6100	17	1566
GeForce Go 6150	17	1567
GeForce Go 6200	15	1571
GeForce Go 6400	24	1546
GeForce Go 6600	69	1393
GeForce Go 6600 TE/6200 TE	44	1464
GeForce Go 6800	106	1297
GeForce Go 6800 Ultra	137	1237
GeForce Go 7200	45	1462
GeForce Go 7300	50	1447
GeForce Go 7400	62	1416
GeForce Go 7600	127	1250
GeForce Go 7600 GT	165	1214

GeForce Go 7700	147	1223
GeForce Go 7800	114	1273
GeForce Go 7800 GTX	209	1157
GeForce Go 7900 GS	176	1201
GeForce Go 7950 GTX	263	1114
GeForce GPU	1159	472
GeForce GT 1030	2274	285
GeForce GT 120	287	1095
GeForce GT 120M	267	1110
GeForce GT 130	456	988
GeForce GT 130M	297	1089
GeForce GT 140	747	706
GeForce GT 220	349	1052
GeForce GT 220M	257	1120
GeForce GT 230	472	979
GeForce GT 230M	332	1063
GeForce GT 240	649	804
GeForce GT 240M	350	1050
GeForce GT 320	552	906
GeForce GT 320M	205	1166
GeForce GT 325M	291	1093
GeForce GT 330	555	902
GeForce GT 330M	361	1040
GeForce GT 335M	502	954
GeForce GT 340	774	679
GeForce GT 415M	318	1071
GeForce GT 420	475	974
GeForce GT 420M	542	926
GeForce GT 425M	626	830
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
GeForce GT 430	661	792
GeForce GT 435M	667	784
GeForce GT 440	842	625
GeForce GT 445M	1054	512
GeForce GT 520	365	1036
GeForce GT 520M	384	1029
GeForce GT 520MX	407	1018
GeForce GT 525M	600	856
GeForce GT 530	744	710
GeForce GT 540M	649	805
GeForce GT 545	1291	434
GeForce GT 550M	718	734
GeForce GT 555M	892	601
GeForce GT 610	350	1051
GeForce GT 620	430	1004
GeForce GT 620M	574	884

GeForce GT 625	438	1001
GeForce GT 625M	500	957
GeForce GT 630	746	708
GeForce GT 630M	690	764
GeForce GT 635	913	590
GeForce GT 635M	698	757
GeForce GT 640	1281	437
GeForce GT 640M	966	565
GeForce GT 640M LE	787	671
GeForce GT 645	2250	290
GeForce GT 645M	907	593
GeForce GT 650M	1233	457
GeForce GT 705	421	1011
GeForce GT 710	692	762
GeForce GT 710M	553	905
GeForce GT 720	716	741
GeForce GT 720A	660	794
GeForce GT 720M	562	894
GeForce GT 730	922	585
GeForce GT 730A	742	714
GeForce GT 730M	841	626
GeForce GT 735M	676	779
GeForce GT 740	1569	383
GeForce GT 740M	788	670
GeForce GT 745A	1179	465
GeForce GT 745M	978	559
GeForce GT 750M	1297	433
GeForce GT 755M	1600	376
GeForce GT 820M	705	750
GeForce GT625M	531	934
GeForce GTS 160M	678	776
GeForce GTS 240	818	648
GeForce GTS 250	876	612
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
GeForce GTS 250M	569	889
GeForce GTS 350M	556	899
GeForce GTS 360M	757	698
GeForce GTS 450	1556	384
GeForce GTX 1050	4753	153
GeForce GTX 1050 (Mobile)	4481	164
GeForce GTX 1050 Ti	6047	116
GeForce GTX 1050 Ti (Mobile)	5975	117
GeForce GTX 1050 Ti with Max-Q Design	5806	123
GeForce GTX 1050 with Max-Q Design	3903	192
GeForce GTX 1060	9096	67
GeForce GTX 1060 (Mobile)	7653	94

GeForce GTX 1060 3GB	8990	69
GeForce GTX 1060 5GB	6684	106
GeForce GTX 1060 with Max-Q Design	7871	88
GeForce GTX 1070	11371	39
GeForce GTX 1070 (Mobile)	9416	63
GeForce GTX 1070 Ti	12329	29
GeForce GTX 1070 with Max-Q Design	9490	60
GeForce GTX 1080	12466	28
GeForce GTX 1080 Ti	14243	12
GeForce GTX 1080 with Max-Q Design	10228	51
GeForce GTX 1650	7941	85
GeForce GTX 1650 (Mobile)	7105	103
GeForce GTX 1650 with Max-Q Design	5620	128
GeForce GTX 1660	10731	44
GeForce GTX 1660 Ti	11584	35
GeForce GTX 1660 Ti (Mobile)	9843	56
GeForce GTX 1660 Ti with Max-Q Design	8371	79
GeForce GTX 260	1135	481
GeForce GTX 260M	589	867
GeForce GTX 275	1245	449
GeForce GTX 280	1206	462
GeForce GTX 280M	620	836
GeForce GTX 285	1272	443
GeForce GTX 285M	734	721
GeForce GTX 295	1053	514
GeForce GTX 460	2654	261
GeForce GTX 460 SE	2258	289
GeForce GTX 460 v2	2495	268
GeForce GTX 460M	1393	409
GeForce GTX 465	2946	245
GeForce GTX 470	3601	202
GeForce GTX 470M	1949	330
GeForce GTX 480	4359	172
GeForce GTX 480M	2039	317
GeForce GTX 485M	2400	275
GeForce GTX 550 Ti	1922	335
GeForce GTX 555	2154	300
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
GeForce GTX 560	3118	231
GeForce GTX 560 SE	2192	297
GeForce GTX 560 Ti	3528	207
GeForce GTX 560M	1542	388
GeForce GTX 570	4417	168
GeForce GTX 570M	2024	319
GeForce GTX 580	5018	147
GeForce GTX 580M	2279	283

GeForce GTX 590	4221	182
GeForce GTX 645	1940	332
GeForce GTX 650	1835	338
GeForce GTX 650 Ti	2659	260
GeForce GTX 650 Ti BOOST	3538	205
GeForce GTX 660	4129	185
GeForce GTX 660 Ti	4657	159
GeForce GTX 660M	1445	399
GeForce GTX 670	5363	135
GeForce GTX 670M	1950	329
GeForce GTX 670MX	2079	309
GeForce GTX 675M	2147	302
GeForce GTX 675MX	2456	270
GeForce GTX 680	5667	126
GeForce GTX 680M	3345	218
GeForce GTX 680MX	4274	179
GeForce GTX 690	5393	133
GeForce GTX 745	2195	296
GeForce GTX 750	3327	220
GeForce GTX 750 Ti	3766	199
GeForce GTX 760	4938	149
GeForce GTX 760 Ti	5118	144
GeForce GTX 760 Ti OEM	5343	136
GeForce GTX 760A	1281	438
GeForce GTX 760M	1433	401
GeForce GTX 765M	1889	336
GeForce GTX 770	6064	115
GeForce GTX 770M	2661	259
GeForce GTX 775M	4166	183
GeForce GTX 780	7956	83
GeForce GTX 780 Ti	8887	70
GeForce GTX 780M	4027	189
GeForce GTX 850A	802	657
GeForce GTX 850M	1646	368
GeForce GTX 860M	1964	324
GeForce GTX 870M	2465	269
GeForce GTX 880M	3721	200
GeForce GTX 950	5243	140
GeForce GTX 950A	1713	356
GeForce GTX 950M	1931	334
GeForce GTX 960	5826	122
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
GeForce GTX 960A	2410	273
GeForce GTX 960M	2377	276
GeForce GTX 965M	3247	223
GeForce GTX 970	8644	72

GeForce GTX 970M	4226	181
GeForce GTX 980	9672	57
GeForce GTX 980 Ti	11415	37
GeForce GTX 980M	5954	118
GeForce GTX Titan	7941	86
GeForce GTX TITAN Black	8653	71
GeForce GTX TITAN X	10694	46
GeForce GTX TITAN Z	7654	93
GeForce MX110	1611	373
GeForce MX130	1964	325
GeForce MX150	2222	294
GeForce MX230	2094	308
GeForce MX250	2521	267
GeForce PCX 5300	6	1607
GeForce PCX 5750	34	1502
GeForce RTX 2060	12884	22
GeForce RTX 2060 (Mobile)	10713	45
GeForce RTX 2060 SUPER	13869	15
GeForce RTX 2070	14093	14
GeForce RTX 2070 (Mobile)	11413	38
GeForce RTX 2070 SUPER	14811	8
GeForce RTX 2070 with Max-Q Design	11352	40
GeForce RTX 2080	15528	5
GeForce RTX 2080 (Mobile)	13656	18
GeForce RTX 2080 SUPER	15846	4
GeForce RTX 2080 Ti	16732	2
GeForce RTX 2080 with Max-Q Design	12600	27
GeForce2 GTS/GeForce2 Pro	3	1650
GeForce2 Integrated GPU	4	1642
GeForce2 MX	2	1683
GeForce2 MX 100/200	3	1669
GeForce2 MX/MX 400	3	1652
GeForce2 Ti	4	1637
GeForce3	4	1631
GeForce3 Ti 200	4	1648
GeForce3 Ti 500	2	1689
GeForce4 420 Go	3	1666
GeForce4 420 Go 32M	5	1626
GeForce4 4200 Go	3	1651
GeForce4 440 Go	3	1657
GeForce4 440 Go 64M	5	1611
GeForce4 448 Go	5	1620
GeForce4 MX 4000	4	1640
GeForce4 MX 420	4	1632
GeForce4 MX 440	4	1639
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**

GeForce4 MX 440 with AGP8X	4	1633
GeForce4 MX 440SE	4	1638
GeForce4 MX 460	4	1646
GeForce4 MX Integrated GPU	6	1603
GeForce4 Ti 4200	5	1622
GeForce4 Ti 4400	7	1598
GeForce4 Ti 4600	5	1621
GeForce4 Ti 4800 SE	7	1597
GeForce9400M	105	1298
GF117	554	904
GIGABYTE RADEON 9600 PRO	39	1486
GRID K1	880	607
GRID K120Q	298	1087
GRID K140Q	727	725
GRID K160Q	701	753
GRID K180Q	778	677
GRID K2	3772	198
GRID K220Q	912	591
GRID K240Q	2143	304
GRID K260Q	2940	246
GRID K280Q	2358	278
GRID K520	4384	170
GRID M10-1B	2024	318
GRID M60-1Q	4680	158
GRID M60-2Q	5904	119
GRID M60-4Q	3188	227
GRID M60-8Q	3883	193
GRID P40-3Q	681	771
GRID P6-4Q	4429	167
HD6450	220	1143
IncrediblE HD 4000	517	943
Intel - Express Chipset G41	56	1433
Intel - Express Chipset Q45/Q43	57	1431
Intel 2nd Generation SandyBridge HD 3000	205	1167
Intel 4th Generation Haswell HD	419	1013
Intel 82845G Controller	2	1692
Intel 82845G/GL Controller	2	1685
Intel 82845G/GL/GE/PE/GV Controller	2	1678
Intel 82865G Controller	4	1636
Intel 82915G Express	5	1616
Intel 82915G/GV/910GL Express	3	1673
Intel 82945G Express	5	1613
Intel 865 Embedded Controller	3	1658
Intel 946GZ Embedded Chipset Function 0	3	1670
Intel 946GZ Express	6	1605
Intel B43 Express Chipset	63	1413
Intel Coffee Lake UHD	1158	473
Intel G33/G31 Express	12	1579
Intel G35 Express	30	1524

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Intel G41 Express Chipset	63	1414
Intel G41 Express-Chipsatz	58	1427
Intel G45/G43 Express Chipset	69	1395
Intel G965 Express	18	1564
Intel Haswell HD - GT1	123	1258
Intel Haswell HD - GT2	139	1234
Intel HD 3000	314	1075
Intel HD 4000	456	987
Intel HD 4400	569	888
Intel HD 4600	713	744
Intel HD 500	327	1065
Intel HD 5000	600	855
Intel HD 510	621	833
Intel HD 515	647	807
Intel HD 520	840	627
Intel HD 5200	830	638
Intel HD 530	1002	541
Intel HD 5300	400	1025
Intel HD 5500	594	863
Intel HD 5600	663	791
Intel HD 6000	828	639
Intel HD 610	717	737
Intel HD 615	740	717
Intel HD 630	1129	484
Intel HD Family	439	999
Intel HD Graphics 620	932	579
Intel HD manual-gen9_2015-133271	165	1213
Intel HD Modded	112	1284
Intel HD P3000	345	1054
Intel HD P4000	516	944
Intel HD P4600	604	851
Intel HD P4600/P4700	673	782
Intel HD P530	1060	510
Intel HD P630	1461	397
Intel Infoshock HD	193	1180
Intel Iris 5100	748	704
Intel Iris 540	1343	418
Intel Iris 550	1580	378
Intel Iris 6100	977	560
Intel Iris Plus	2118	305
Intel Iris Plus 640	1411	407
Intel Iris Plus 650	1574	382
Intel Iris Plus 655	1979	322
Intel Iris Pro 5200	1173	466
Intel Iris Pro 580	1879	337

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Intel Iris Pro Graphics 6200	1545	385
Intel Iris Pro P580	2146	303
Intel Iris Pro P6300	1209	460
Intel Media Accelerator	32	1514
Intel Media Accelerator 3150	3	1676
Intel Media Accelerator 500	3	1664
Intel Media Accelerator 600	6	1600
Intel Media Accelerator HD	116	1270
Intel Q33 Express	10	1585
Intel Q35 Express	9	1587
Intel Q45/Q43 Express Chipset	66	1408
Intel Q45/Q43 Express-Chipsatz	57	1430
Intel Q965/Q963 Express	6	1604
Intel Skylake HD DT GT2	576	882
Intel UHD	1290	435
Intel UHD 600	360	1042
Intel UHD 605	426	1008
Intel UHD 610	790	667
Intel UHD 615	794	665
Intel UHD 617	878	610
Intel UHD 630	1263	445
Intel UHD Graphics 620	1065	506
Intel UHD P630	1274	442
Intel US15 Embedded Media and Controller	7	1596
ION	97	1321
ION LE	97	1322
M860G with Mobility Radeon 4100	75	1380
M880G with Mobility Radeon HD 4200	92	1334
M880G with Mobility Radeon HD 4225	71	1388
M880G with Mobility Radeon HD 4250	104	1302
Matrox C420 LP PCIe x16	635	819
Matrox C680 PCIe x16	1977	323
Matrox C900 PCIe x16	1812	343
Matrox G200e WDDM 1.2	59	1424
Matrox G200eh	40	1480
Matrox G200eh WDDM 1.2	51	1441
Matrox G200eR	36	1495
Matrox G200eR WDDM 1.2	67	1402
Matrox G200eR WDDM 2.0	67	1401
Matrox G200eW	42	1475
Matrox G200eW WDDM 1.2	50	1449
Matrox M9138 LP PCIe x16	32	1516
Matrox M9140 LP PCIe x16	23	1550
Matrox M9148 LP PCIe x16	9	1588
Matrox Millennium P650 PCIe 128	5	1624

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Matrox Millennium P690 PCIe x16	10	1586
Matrox Millennium P690 Plus LP PCIe x16	6	1601
Matrox Parhelia APVe	5	1618
MEDION RADEON X740XL	94	1327
Mobile Intel - famiglia Express Chipset 45	38	1489
Mobile Intel 4 Express-Chipsatzfamilie	44	1466
Mobile Intel 45 Express	43	1470
Mobile Intel 45 Express-Chipsatzfamilie	117	1267
Mobile Intel 915GM/GMS/910GML Express	4	1643
Mobile Intel 945 Express	4	1641
Mobile Intel 945GM Express	5	1614
Mobile Intel 945GM/GU Express	5	1625
Mobile Intel 965 Express	20	1560
Mobile Intel 965 Express-Chipsatzfamilie	24	1547
Mobile Intel HD	409	1016
Mobile Intel serie 4 Express	44	1465
MOBILITY FIREGL T2	40	1479
MOBILITY FIREGL T2/T2e	33	1510
MOBILITY FireGL V3200	62	1419
MOBILITY FireGL V5000	81	1367
MOBILITY FireGL V5200	44	1463
MOBILITY FireGL V5250	27	1531
Mobility FireGL V5725	219	1146
Mobility Radeon 4100	81	1370
MOBILITY RADEON 7000 IGP	6	1606
MOBILITY RADEON 7500	3	1660
MOBILITY RADEON 9000	3	1668
MOBILITY RADEON 9000 IGP	7	1592
MOBILITY RADEON 9000/9100 IGP	5	1617
MOBILITY RADEON 9100 IGP	2	1677
MOBILITY RADEON 9200	3	1675
MOBILITY RADEON 9600 PRO TURBO	24	1544
MOBILITY RADEON 9600/9700	39	1485
MOBILITY RADEON 9700	27	1530
MOBILITY RADEON 9800	46	1460
Mobility Radeon HD 2300	50	1446
Mobility Radeon HD 2400	89	1349
Mobility Radeon HD 2400 XT	102	1307
Mobility Radeon HD 2600	167	1209
Mobility Radeon HD 2600 XT	191	1183
Mobility Radeon HD 3410	62	1415
Mobility Radeon HD 3430	98	1316
Mobility Radeon HD 3450	91	1345
Mobility Radeon HD 3470	93	1331
Mobility Radeon HD 3470 Hybrid X2	93	1330

Mobility Radeon HD 3650	210	1156
Mobility Radeon HD 3670	232	1136
Mobility Radeon HD 3850	365	1038
Mobility Radeon HD 3870	547	915
Mobility Radeon HD 3870 X2	564	892
Mobility Radeon HD 4200	90	1346
Mobility Radeon HD 4225	66	1407
Mobility Radeon HD 4250	98	1317
Mobility Radeon HD 4270	92	1333
Mobility Radeon HD 4330	135	1241
Mobility Radeon HD 4350	148	1222
Mobility Radeon HD 4550	191	1184
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
Mobility Radeon HD 4570	196	1178
Mobility Radeon HD 4650	401	1024
Mobility Radeon HD 4670	463	986
Mobility Radeon HD 4830	511	947
Mobility Radeon HD 4850	866	616
Mobility Radeon HD 4870	719	731
Mobility Radeon HD 5000	773	683
Mobility Radeon HD 5000 Serisi	478	970
Mobility Radeon HD 5165	284	1097
Mobility Radeon HD 530v	174	1202
Mobility Radeon HD 540v	188	1188
Mobility Radeon HD 5430	181	1194
Mobility Radeon HD 5450	214	1151
Mobility Radeon HD 545v	199	1172
Mobility Radeon HD 5470	236	1133
Mobility Radeon HD 550v	266	1111
Mobility Radeon HD 5570	717	736
Mobility Radeon HD 560v	318	1072
Mobility Radeon HD 5650	554	903
Mobility Radeon HD 565v	353	1048
Mobility Radeon HD 5730	677	777
Mobility Radeon HD 5850	763	692
Mobility Radeon HD 5870	1251	448
Mobility Radeon HD serie 4200	96	1326
Mobility Radeon X1300	39	1484
Mobility Radeon X1350	39	1482
Mobility Radeon X1400	43	1471
Mobility Radeon X1450	33	1511
Mobility Radeon X1600	92	1337
Mobility Radeon X1700	104	1300
MOBILITY RADEON X1800	130	1247
Mobility Radeon X1900	134	1242
Mobility Radeon X2300	48	1455

Mobility Radeon X2300 HD	48	1454
Mobility Radeon X2500	81	1366
MOBILITY RADEON X300	33	1509
MOBILITY RADEON X600	50	1448
MOBILITY RADEON X600 SE	49	1451
MOBILITY RADEON X700	66	1404
MOBILITY RADEON XPRESS 200	27	1533
Mobility Radeon. HD 5470	215	1150
MOBILITY/RADEON 9000	4	1647
MxGPU	1826	342
nForce 750a SLI	83	1361
nForce 760i SLI	140	1232
nForce 780a SLI	92	1338
nForce 980a/780a SLI	81	1368
NVIDIA TITAN X	13665	17
NVIDIA TITAN Xp	14275	11
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
NVS 2100M	184	1191
NVS 300	183	1192
NVS 310	295	1090
NVS 3100M	203	1168
NVS 315	347	1053
NVS 4200M	365	1037
NVS 510	764	690
NVS 5100M	356	1043
NVS 5200M	665	787
NVS 5400M	790	668
NVS 810	981	557
OpenXT Display Driver	30	1522
P106-100	4731	155
PHDGD Ivy 4	374	1032
PHDGD Quantic C3	116	1268
PHDGD Sapphire GR for Mobile Intel 965	25	1538
PHDGD Solo 1.2.0 x86	11	1583
PHDGD Solo 2 x64	20	1561
Quadro 1000M	752	701
Quadro 1100M	755	699
Quadro 2000	1316	424
Quadro 2000 D	1239	452
Quadro 2000D	1283	436
Quadro 2000M	1034	522
Quadro 280 NVS PCIe	5	1615
Quadro 3000M	1461	396
Quadro 400	237	1132
Quadro 4000	2049	315
Quadro 4000M	1793	347

Quadro 410	402	1023
Quadro 5000	2855	252
Quadro 5000M	2059	312
Quadro 500M	664	789
Quadro 5010M	1833	341
Quadro 600	698	758
Quadro 6000	3528	206
Quadro CX	947	574
Quadro FX 1000	34	1506
Quadro FX 1100	35	1498
Quadro FX 1300	34	1505
Quadro FX 1400	103	1304
Quadro FX 1500	155	1217
Quadro FX 1500M	171	1205
Quadro FX 1600M	214	1152
Quadro FX 1700	192	1181
Quadro FX 1700M	300	1085
Quadro FX 1800	579	878
Quadro FX 1800M	478	972
Quadro FX 2500M	217	1147
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
Quadro FX 2700M	529	936
Quadro FX 2800M	657	797
Quadro FX 3000	69	1398
Quadro FX 3400/4400	104	1301
Quadro FX 3450	148	1220
Quadro FX 3450/4000 SDI	134	1244
Quadro FX 350	85	1352
Quadro FX 3500	208	1160
Quadro FX 3500M	306	1081
Quadro FX 350M	62	1418
Quadro FX 3600M	467	982
Quadro FX 360M	86	1351
Quadro FX 370	83	1360
Quadro FX 370 LP	108	1294
Quadro FX 3700	628	826
Quadro FX 3700M	633	823
Quadro FX 370M	93	1332
Quadro FX 380	148	1221
Quadro FX 380 LP	189	1187
Quadro FX 3800	839	628
Quadro FX 3800M	803	656
Quadro FX 380M	201	1171
Quadro FX 4500	206	1164
Quadro FX 4600	600	857
Quadro FX 4700 X2	676	781

Quadro FX 4800	1001	542
Quadro FX 500/600 PCI	14	1572
Quadro FX 500/FX 600	7	1593
Quadro FX 540	80	1373
Quadro FX 550	63	1412
Quadro FX 5500	240	1130
Quadro FX 560	113	1277
Quadro FX 5600	681	770
Quadro FX 570	115	1272
Quadro FX 570M	185	1190
Quadro FX 580	268	1108
Quadro FX 5800	1110	492
Quadro FX 770M	298	1088
Quadro FX 880M	354	1046
Quadro FX Go1400	101	1308
Quadro GP100	12742	25
Quadro GV100	12699	26
Quadro K1000M	794	663
Quadro K1100M	1039	520
Quadro K1200	3047	238
Quadro K2000	1722	354
Quadro K2000D	1675	365
Quadro K2000M	1081	500
Quadro K2100M	1338	420
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
Quadro K2200	3599	203
Quadro K2200M	2717	258
Quadro K3000M	1758	351
Quadro K3100M	2076	310
Quadro K4000	2879	251
Quadro K4000M	2240	291
Quadro K4100M	2628	262
Quadro K420	830	637
Quadro K4200	4473	165
Quadro K5000	4013	190
Quadro K5000M	2627	263
Quadro K5100M	3113	232
Quadro K510M	651	801
Quadro K5200	6094	113
Quadro K600	823	644
Quadro K6000	7495	96
Quadro K610M	768	688
Quadro K620	2336	280
Quadro K620M	921	586
Quadro M1000M	2400	274
Quadro M1200	3057	237

Quadro M2000	4278	178
Quadro M2000M	2930	248
Quadro M2200	3690	201
Quadro M3000M	4514	163
Quadro M4000	6664	107
Quadro M4000M	4895	150
Quadro M5000	8517	76
Quadro M5000M	5694	125
Quadro M500M	1091	496
Quadro M520	1606	374
Quadro M5500	7915	87
Quadro M6000	9351	64
Quadro M6000 24GB	10057	55
Quadro M600M	1932	333
Quadro M620	2804	254
Quadro NVS 110M	47	1456
Quadro NVS 120M	46	1459
Quadro NVS 130M	59	1422
Quadro NVS 135M	57	1432
Quadro NVS 140M	89	1348
Quadro NVS 150M	92	1336
Quadro NVS 160M	92	1339
Quadro NVS 210S	23	1548
Quadro NVS 210S / GeForce 6150LE	20	1559
Quadro NVS 280 SD	2	1691
Quadro NVS 285	35	1500
Quadro NVS 285 128MB	38	1490
Quadro NVS 290	90	1347
Videocard Name	**Passmark G3D Mark (higher is better)**	**Rank (lower is better)**
Quadro NVS 295	96	1325
Quadro NVS 320M	205	1165
Quadro NVS 420	98	1315
Quadro NVS 440	37	1492
Quadro NVS 450	91	1343
Quadro NVS 55/280 PCI	6	1609
Quadro P1000	4415	169
Quadro P2000	7232	98
Quadro P2000 with Max-Q Design	5335	137
Quadro P2200	9664	58
Quadro P3000	5888	120
Quadro P3200	8287	80
Quadro P3200 with Max-Q Design	8636	73
Quadro P400	1653	367
Quadro P4000	10452	49
Quadro P4000 with Max-Q Design	9082	68
Quadro P4200	10165	52

Quadro P4200 with Max-Q Design	10343	50
Quadro P500	1687	362
Quadro P5000	10075	54
Quadro P520	1583	377
Quadro P5200	9510	59
Quadro P5200 with Max-Q Design	9323	65
Quadro P600	3198	226
Quadro P6000	13452	20
Quadro P620	3786	197
Quadro RTX 3000	10114	53
Quadro RTX 4000	13360	21
Quadro RTX 5000	12837	24
Quadro RTX 5000 (Mobile)	12877	23
Quadro RTX 5000 with Max-Q Design	14699	9
Quadro RTX 6000	14996	7
Quadro RTX 8000	10980	43
Quadro T1000	6495	108
Quadro T2000	7768	90
Quadro2 Pro	1	1696
Quadro4 380 XGL	6	1602
Quadro4 980 XGL	5	1629
Radeon 2100	59	1421
Radeon 3000	98	1318
Radeon 3100	73	1384
Radeon 520	814	649
Radeon 530	1154	474
Radeon 535	1307	428
Radeon 535DX	1021	532
Radeon 540	1576	381
Radeon 6600M	741	716
RADEON 7000 / RADEON VE Family	3	1655
RADEON 7500	3	1671
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
RADEON 7500 Family	4	1635
RADEON 9000 Family	3	1662
RADEON 9100 Family	6	1608
RADEON 9100 IGP	5	1623
RADEON 9200	3	1659
RADEON 9200 LE Family	2	1686
RADEON 9200 PRO Family	2	1679
RADEON 9200 SE	2	1688
RADEON 9250	2	1687
RADEON 9500	36	1496
RADEON 9500 PRO / 9700	41	1476
RADEON 9550	34	1504
Radeon 9550 / X1050	29	1527

RADEON 9600 Family	25	1542
RADEON 9600 PRO	42	1472
RADEON 9600 PRO Family	26	1537
RADEON 9600 TX Family	18	1563
RADEON 9600 XT	35	1501
RADEON 9600SE	27	1532
RADEON 9700 PRO	53	1438
RADEON 9800 PRO	59	1423
RADEON 9800 SE	23	1549
RADEON 9800 XT	53	1439
RADEON E4690	405	1021
Radeon E6760	973	562
Radeon E8860	1577	380
Radeon HD 2350	76	1378
Radeon HD 2400	120	1260
Radeon HD 2400 PCI	14	1573
Radeon HD 2400 Pro	114	1275
Radeon HD 2400 XT	118	1262
Radeon HD 2600 PRO	211	1155
Radeon HD 2600 Pro AGP	110	1288
Radeon HD 2600 XT	282	1098
Radeon HD 2900 GT	292	1092
Radeon HD 2900 PRO	627	827
Radeon HD 2900 XT	659	796
Radeon HD 3200	82	1362
Radeon HD 3300	126	1253
Radeon HD 3450	118	1265
Radeon HD 3470	142	1225
Radeon HD 3650 AGP	150	1219
Radeon HD 3670	240	1131
Radeon HD 3850	529	935
Radeon HD 3850 AGP	443	995
Radeon HD 3850 X2	792	666
Radeon HD 3870	717	740
Radeon HD 3870 X2	873	613
Radeon HD 4200	111	1285
Videocard Name	**Passmark G3D Mark (higher is better)**	**Rank (lower is better)**
Radeon HD 4250	122	1259
Radeon HD 4270	109	1289
Radeon HD 4290	140	1228
Radeon HD 4300/4500 Serisi	155	1216
Radeon HD 4330	158	1215
Radeon HD 4350	166	1211
Radeon HD 4550	235	1134
Radeon HD 4650	333	1062
Radeon HD 4650 AGP	207	1161

Radeon HD 4670	544	922
Radeon HD 4770	1035	521
Radeon HD 4810	769	685
Radeon HD 4830	946	575
Radeon HD 4850	1022	531
Radeon HD 4850 X2	1132	482
Radeon HD 4870	1382	411
Radeon HD 4870 X2	1309	427
Radeon HD 4890	1543	387
Radeon HD 5450	231	1137
Radeon HD 5470	268	1109
Radeon HD 5550	548	914
Radeon HD 5570	714	743
Radeon HD 5600/5700	957	570
Radeon HD 5670	1086	498
Radeon HD 5750	1454	398
Radeon HD 5770	1711	357
Radeon HD 5830	2054	314
Radeon HD 5850	2281	282
Radeon HD 5870	2621	264
Radeon HD 5970	2602	266
Radeon HD 6230	221	1142
Radeon HD 6250	119	1261
Radeon HD 6290	138	1236
Radeon HD 6290M	140	1231
Radeon HD 6300M	256	1122
Radeon HD 6310	169	1206
Radeon HD 6320	202	1170
Radeon HD 6320 Graphic	216	1148
Radeon HD 6320M	198	1174
RADEON HD 6350	211	1154
Radeon HD 6370D	310	1078
Radeon HD 6370M	275	1103
Radeon HD 6380G	299	1086
Radeon HD 6410D	387	1028
Radeon HD 6430M	192	1182
Radeon HD 6450	276	1102
Radeon HD 6450A	260	1116
Radeon HD 6470M	313	1076
Radeon HD 6480G	406	1019
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
Radeon HD 6490M	377	1030
Radeon HD 6520G	486	965
Radeon HD 6530D	515	946
Radeon HD 6550A	707	747
Radeon HD 6550D	643	812

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Radeon HD 6570	760	695
Radeon HD 6610M	565	891
Radeon HD 6620G	557	897
Radeon HD 6630M	684	769
Radeon HD 6650M	698	759
Radeon HD 6670	1062	507
Radeon HD 6670 + 6670 Dual	646	808
Radeon HD 6700M	1016	535
Radeon HD 6750	1316	423
Radeon HD 6750M	937	578
Radeon HD 6770	1685	363
Radeon HD 6770M	964	566
Radeon HD 6790	2047	316
Radeon HD 6800M	994	549
Radeon HD 6850	2293	281
Radeon HD 6870	2615	265
Radeon HD 6900M	1963	326
Radeon HD 6950	3218	224
Radeon HD 6970	3524	208
Radeon HD 6970M	2270	286
Radeon HD 6990	2932	247
Radeon HD 7290	140	1230
Radeon HD 7290M	123	1257
Radeon HD 7310	171	1204
Radeon HD 7310G	180	1195
Radeon HD 7310M	166	1212
Radeon HD 7340	207	1162
Radeon HD 7340G	196	1176
Radeon HD 7340M	221	1141
Radeon HD 7350	279	1099
Radeon HD 7400G	322	1066
Radeon HD 7420G	429	1006
Radeon HD 7450	308	1080
Radeon HD 7450A	288	1094
Radeon HD 7450M	329	1064
Radeon HD 7470	361	1041
Radeon HD 7470M	407	1017
Radeon HD 7480D	429	1005
Radeon HD 7500G	412	1015
Radeon HD 7500G + 7500M/7600M Dual	616	841
Radeon HD 7500G + 7550M Dual	497	961
Radeon HD 7500G + HD 7500M/7600M Dual	355	1044
Radeon HD 7520G	453	990
Radeon HD 7520G + 7400M Dual	486	964
Radeon HD 7520G + 7600M Dual	591	865

Radeon HD 7520G + 7610M Dual	588	869
Radeon HD 7520G + 7650M Dual	453	991
Radeon HD 7520G + 7670M Dual	523	939
Radeon HD 7520G + 7700M Dual	1060	509
Radeon HD 7520G + 8600/8700M Dual	311	1077
Radeon HD 7520G + HD 7400M Dual	544	921
Radeon HD 7520G + HD 7600M Dual	599	859
Radeon HD 7520G + HD 7670M Dual	548	912
Radeon HD 7520G + HD 8600/8700M Dual	623	831
Radeon HD 7520G + HD 8750M Dual	651	802
Radeon HD 7540D	509	949
Radeon HD 7540D + 6570 Dual	719	732
Radeon HD 7550M	464	984
Radeon HD 7550M/7650M	728	724
Radeon HD 7560D	663	790
Radeon HD 7560D + 6570 Dual	833	634
Radeon HD 7560D + 6670 Dual	1130	483
Radeon HD 7560D + 7560D Dual	982	555
Radeon HD 7560D + 7670 Dual	1426	403
Radeon HD 7560D + HD 7000 Dual	534	930
Radeon HD 7560D + HD 7700 Dual	1346	417
Radeon HD 7560D + R5 235 Dual	563	893
Radeon HD 7570	981	558
Radeon HD 7570M	613	844
Radeon HD 7570M/HD 7670M	699	756
Radeon HD 7580D	350	1049
Radeon HD 7600G	481	968
Radeon HD 7600G + 7450M Dual	389	1027
Radeon HD 7600G + 7500M/7600M Dual	405	1020
Radeon HD 7600G + 7550M Dual	423	1009
Radeon HD 7600G + 8500M/8700M Dual	469	981
Radeon HD 7600G + HD 7500M/7600M Dual	555	901
Radeon HD 7600G + HD 7550M Dual	509	950
Radeon HD 7600G + HD 8670M Dual	543	924
Radeon HD 7600G + HD Dual	442	998
Radeon HD 7600M + 7600M Dual	773	681
Radeon HD 7610M	632	824
Radeon HD 7620G	474	976
Radeon HD 7620G + 8600M Dual	508	951
Radeon HD 7620G + 8670M Dual	577	881
Radeon HD 7620G + HD 8600M Dual	442	997
Radeon HD 7620G + HD 8670M Dual	507	952
Radeon HD 7640G	614	843
Radeon HD 7640G + 6400M Dual	526	938
Radeon HD 7640G + 7400M Dual	637	816
Radeon HD 7640G + 7470M Dual	595	862
Radeon HD 7640G + 7500/7600 Dual	627	828
Radeon HD 7640G + 7600M Dual	705	749

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Radeon HD 7640G + 7610M Dual	510	948
Radeon HD 7640G + 7670M Dual	644	811
Radeon HD 7640G + 7700M Dual	690	763
Radeon HD 7640G + 8500M Dual	585	875
Radeon HD 7640G + 8570M Dual	558	896
Radeon HD 7640G + 8600/8700M Dual	688	766
Radeon HD 7640G + 8670M Dual	558	895
Radeon HD 7640G + 8750M Dual	654	798
Radeon HD 7640G + HD 7400M Dual	621	835
Radeon HD 7640G + HD 7600M Dual	704	752
Radeon HD 7640G + HD 7670M Dual	659	795
Radeon HD 7640G + HD 7700M Dual	589	866
Radeon HD 7640G + HD 8500M Dual	607	849
Radeon HD 7640G + HD 8500M N HD 8500M Dual	665	785
Radeon HD 7640G + HD 8570M Dual	696	760
Radeon HD 7640G + HD 8600/8700M Dual	586	873
Radeon HD 7640G + HD 8750M Dual	996	548
Radeon HD 7640G + R5 M200 Dual	546	918
Radeon HD 7640G N HD 7640G + HD 7600M N HD 7600M D	824	643
Radeon HD 7640G N HD 7640G + HD 7670M Dual	679	775
Radeon HD 7650A	794	664
Radeon HD 7650M	723	728
Radeon HD 7660D	779	675
Radeon HD 7660D + 6570 Dual	1100	494
Radeon HD 7660D + 6670 Dual	1238	455
Radeon HD 7660D + 7470 Dual	465	983
Radeon HD 7660D + 7670 Dual	1061	508
Radeon HD 7660D + HD 6670 Dual	1484	395
Radeon HD 7660D + HD 7000 Dual	633	822
Radeon HD 7660D + HD 7700 Dual	1958	328
Radeon HD 7660D + R7 240 Dual	941	577
Radeon HD 7660G	798	660
Radeon HD 7660G + 7400M Dual	588	870
Radeon HD 7660G + 7470M Dual	630	825
Radeon HD 7660G + 7600M Dual	831	636
Radeon HD 7660G + 7610M Dual	745	709
Radeon HD 7660G + 7670M Dual	743	713
Radeon HD 7660G + 7700M Dual	757	697
Radeon HD 7660G + 7730M Dual	931	580
Radeon HD 7660G + 8600M Dual	445	993
Radeon HD 7660G + 8670M Dual	587	871
Radeon HD 7660G + HD 7500M/7600M Dual	999	547
Radeon HD 7660G + HD 7600M Dual	774	678
Radeon HD 7660G + HD 7670M Dual	706	748
Radeon HD 7660G + HD 7700M Dual	751	702

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Radeon HD 7660G + HD 7730M Dual	881	606
Radeon HD 7660G + HD 8670M Dual	711	745
Radeon HD 7660G N HD 7660G + HD 7600M N HD 7600M D	722	729
Radeon HD 7660G N HD 7660G + HD 7670M Dual	704	751
Radeon HD 7660G N HD 7660G + HD 7700M N HD 7700M D	966	564
Radeon HD 7670	1115	487
Radeon HD 7670A	1050	515
Radeon HD 7670M	812	651
Radeon HD 7670M + 7670M Dual	738	719
Radeon HD 7690M	1003	540
Radeon HD 7690M XT	1009	538
Radeon HD 7730	1426	402
Radeon HD 7730M	999	544
Radeon HD 7750	1710	358
Radeon HD 7750M	1191	463
Radeon HD 7770	2222	293
Radeon HD 7790	3083	236
Radeon HD 7850	3848	195
Radeon HD 7850M	1372	413
Radeon HD 7870	4382	171
Radeon HD 7870 XT	4469	166
Radeon HD 7870M	1507	392
Radeon HD 7950 / R9 280	4764	152
Radeon HD 7970 / R9 280X	5247	139
Radeon HD 7970M	3800	196
Radeon HD 7990	5545	131
Radeon HD 8180	195	1179
Radeon HD 8210	250	1124
Radeon HD 8240	278	1100
Radeon HD 8250	257	1119
Radeon HD 8280	319	1070
Radeon HD 8280E	317	1073
Radeon HD 8280G	269	1107
Radeon HD 8330	333	1061
Radeon HD 8330E	322	1067
Radeon HD 8350	265	1112
Radeon HD 8350G	443	996
Radeon HD 8370D	432	1003
Radeon HD 8400	355	1045
Radeon HD 8400E	339	1058
Radeon HD 8410G	435	1002
Radeon HD 8450G	412	1014
Radeon HD 8450G + 8600M Dual	545	920
Radeon HD 8450G + 8670M Dual	474	975
Radeon HD 8450G + 8750M Dual	637	817

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Radeon HD 8450G + HD 8600M Dual	452	992
Radeon HD 8450G + HD 8670M Dual	574	883
Radeon HD 8450G + HD 8750M Dual	483	966
Radeon HD 8470	343	1055
Radeon HD 8470D	521	940
Radeon HD 8470D + 6450 Dual	717	739
Radeon HD 8470D + HD 7500 Dual	1545	386
Radeon HD 8490	377	1031
Radeon HD 8500M	542	925
Radeon HD 8500M/8700M	852	623
Radeon HD 8510G	501	955
Radeon HD 8510G + 8500M Dual	596	860
Radeon HD 8550D	685	768
Radeon HD 8550G	719	733
Radeon HD 8550G + 8500M Dual	602	853
Radeon HD 8550G + 8570M Dual	532	932
Radeon HD 8550G + 8600/8700M Dual	802	658
Radeon HD 8550G + 8600M Dual	617	840
Radeon HD 8550G + 8670M Dual	579	879
Radeon HD 8550G + 8690M Dual	664	788
Radeon HD 8550G + 8750M Dual	795	662
Radeon HD 8550G + HD 7600M Dual	854	621
Radeon HD 8550G + HD 8570M Dual	529	937
Radeon HD 8550G + HD 8600/8700M Dual	813	650
Radeon HD 8550G + HD 8600M Dual	593	864
Radeon HD 8550G + HD 8670M Dual	546	919
Radeon HD 8550G + HD 8750M Dual	819	646
Radeon HD 8550G + R5 M200 Dual	619	839
Radeon HD 8550G + R5 M230 Dual	667	783
Radeon HD 8570	986	553
Radeon HD 8570 + 8670D Dual	620	837
Radeon HD 8570D	680	772
Radeon HD 8570D + 6570 Dual	1239	454
Radeon HD 8570D + HD 6570 Dual	868	615
Radeon HD 8570D + HD 6670 Dual	1260	447
Radeon HD 8570D + HD 7000 Dual	753	700
Radeon HD 8570D + HD 7700 Dual	1834	340
Radeon HD 8570D + HD 8570 Dual	1032	523
Radeon HD 8570D + R7 200 Dual	999	546
Radeon HD 8570D + R7 240 Dual	963	567
Radeon HD 8570M	534	931
Radeon HD 8600/8700M	1029	525
Radeon HD 8610G	551	907
Radeon HD 8610G + 8500M Dual	610	847
Radeon HD 8610G + 8600M Dual	588	868

Radeon HD 8610G + 8670M Dual	599	858
Radeon HD 8610G + HD 8500M Dual	645	809
Radeon HD 8610G + HD 8600M Dual	583	877
Radeon HD 8610G + HD 8670M Dual	577	880
Radeon HD 8610G + R5 M200 Dual	676	780
Radeon HD 8650D	548	913
Radeon HD 8650G	914	589
Radeon HD 8650G + 7600M Dual	741	715
Radeon HD 8650G + 7670M Dual	883	605
Radeon HD 8650G + 8500M Dual	626	829
Radeon HD 8650G + 8570M Dual	654	799
Radeon HD 8650G + 8600/8700M Dual	831	635
Videocard Name	**Passmark G3D Mark (higher is better)**	**Rank (lower is better)**
Radeon HD 8650G + 8600M Dual	613	845
Radeon HD 8650G + 8670M Dual	634	821
Radeon HD 8650G + 8750M Dual	786	672
Radeon HD 8650G + HD 7600M Dual	819	645
Radeon HD 8650G + HD 7670M Dual	634	820
Radeon HD 8650G + HD 8570M Dual	716	742
Radeon HD 8650G + HD 8600/8700M Dual	763	691
Radeon HD 8650G + HD 8600M Dual	601	854
Radeon HD 8650G + HD 8670M Dual	585	876
Radeon HD 8650G + HD 8750M Dual	778	676
Radeon HD 8650G + R5 M200 Dual	722	730
Radeon HD 8650G + R5 M230 Dual	686	767
Radeon HD 8650G N HD 8650G + HD 8570M Dual	773	682
Radeon HD 8650G N HD 8650G + HD 8600M N HD 8600M D	679	773
Radeon HD 8670D	781	673
Radeon HD 8670D + 6670 Dual	1361	416
Radeon HD 8670D + 7700 Dual	1788	348
Radeon HD 8670D + HD 6670 Dual	1221	458
Radeon HD 8670D + HD 7000 Dual	718	735
Radeon HD 8670D + R5 235 Dual	836	630
Radeon HD 8670D + R7 200 Dual	949	573
Radeon HD 8670D + R7 240 Dual	1020	534
Radeon HD 8670M	520	941
Radeon HD 8690A	621	834
Radeon HD 8690M	984	554
Radeon HD 8730M	1041	519
Radeon HD 8750M	1070	504
Radeon HD 8790M	1315	425
Radeon HD 8790M / R9 M290X	1236	456
Radeon HD 8850M	973	563
Radeon HD 8850M / R9 M265X	1139	480
Radeon HD 8870M	1638	370
Radeon HD 8870M / R9 M270X / M370X	1799	345

Radeon HD 8950	3038	239
Radeon HD 8970M	3876	194
Radeon HD 8990	4999	148
RADEON HD6370D	320	1069
RADEON HD6410D	422	1010
RADEON HD6530D	531	933
Radeon HD7570	1028	526
Radeon HD8490	365	1039
Radeon HD8530M	498	958
Radeon HD8970M	3368	216
Radeon IGP 320M	3	1661
Radeon IGP 340M	2	1690
RADEON IGP 345M	2	1684
RADEON IGP 350M	6	1610
Radeon Infoshock 3000	106	1295
Radeon Pro 450	2722	257
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
Radeon Pro 455	3112	233
Radeon Pro 460	3452	213
Radeon Pro 555	3140	230
Radeon Pro 560	3475	211
Radeon Pro 570	6336	110
Radeon Pro 580	7753	91
Radeon Pro Duo	9434	61
Radeon Pro SSG	10497	48
Radeon Pro Vega 20	6344	109
Radeon Pro Vega 48	11795	34
Radeon Pro Vega 56	11950	33
Radeon Pro Vega 64	11455	36
Radeon Pro WX 2100	2258	288
Radeon Pro WX 3100	3337	219
Radeon Pro WX 4100	4041	188
Radeon Pro WX 4130	2984	243
Radeon Pro WX 4150	3208	225
Radeon Pro WX 5100	5645	127
Radeon Pro WX 7100	7954	84
Radeon PRO WX 8200	11124	42
Radeon Pro WX 9100	10671	47
Radeon Pro WX4100	3953	191
Radeon R1E	301	1084
Radeon R2	301	1083
Radeon R2E	242	1128
Radeon R3	369	1033
Radeon R3E	256	1121
Radeon R4	397	1026
Radeon R5 220	232	1135

Radeon R5 230	247	1127
Radeon R5 235	368	1034
Radeon R5 235 + HD 7560D Dual	743	712
Radeon R5 235X	367	1035
Radeon R5 240	648	806
Radeon R5 310	337	1060
Radeon R5 330	570	886
Radeon R5 340	1054	513
Radeon R5 420	757	696
Radeon R5 430	1027	530
Radeon R5 A10-9600P 4C+6G	807	654
Radeon R5 A10-9620P 4C+6G	801	659
Radeon R5 A10-9630P 4C+6G	1436	400
Radeon R5 A6-7480	746	707
Radeon R5 A6-9500 2C+6G	999	545
Radeon R5 M230	566	890
Radeon R5 M240	556	898
Radeon R5 M255	761	694
Radeon R5 M315	609	848
Radeon R5 M320	480	969
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
Radeon R5 M330	595	861
Radeon R5 M335	548	910
Radeon R5 M420	550	908
Radeon R5 M430	652	800
Radeon R5 M435	602	852
Radeon R5 Opteron X3216	438	1000
Radeon R5 PRO A10-8730B 4C+6G	819	647
Radeon R5 PRO A6-8530B 2C+4G	689	765
Radeon R5 PRO A6-8570 2C+6G	1014	537
Radeon R5 PRO A6-8570E 2C+4G	839	629
Radeon R5 PRO A6-9500 2C+6G	906	594
Radeon R5 PRO A6-9500B 2C+4G	693	761
Radeon R5 PRO A6-9500E 2C+4G	877	611
Radeon R5 PRO A8-9600B 4C+6G	845	624
Radeon R5E	338	1059
Radeon R6	643	813
Radeon R6 + R7 M265DX Dual	570	887
Radeon R6 A10-8700P	679	774
Radeon R6 A8-8600P	501	956
Radeon R6 M255DX	420	1012
Radeon R6 PRO A10-8700B 4C+6G	586	874
Radeon R6 PRO A8-8600B 4C+6G	587	872
Radeon R7 + HD 7700 Dual	1962	327
Radeon R7 + R5 330 Dual	1028	527
Radeon R7 + R5 435 Dual A10-9700 RADEON	885	604

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Radeon R7 + R7 200 Dual	1279	441
Radeon R7 + R7 240 Dual	1045	518
Radeon R7 + R7 350 Dual	1982	321
Radeon R7 240	976	561
Radeon R7 240 + HD 8570D Dual	917	588
Radeon R7 240 + HD 8670D Dual	930	581
Radeon R7 250	1405	408
Radeon R7 250X	2268	287
Radeon R7 260	2891	250
Radeon R7 260X	3178	228
Radeon R7 340	1047	517
Radeon R7 360	3317	221
Radeon R7 370	4643	160
Radeon R7 430	1419	404
Radeon R7 450	2195	295
Radeon R7 A10 Extreme Edition	790	669
Radeon R7 A10 PRO-7800B	717	738
Radeon R7 A10 PRO-7850B	962	568
Radeon R7 A10-7700K	897	600
Radeon R7 A10-7800	887	603
Radeon R7 A10-7850K	1020	533
Radeon R7 A10-7860K	982	556
Radeon R7 A10-7870K	1123	486
Radeon R7 A10-7890K	1154	475
Radeon R7 A10-8750	990	551
Radeon R7 A10-8850	1114	490
Radeon R7 A10-9700 RADEON	1163	469
Radeon R7 A10-9700E RADEON	1105	493
Radeon R7 A12-9700P RADEON	749	703
Radeon R7 A12-9720P RADEON	930	582
Radeon R7 A12-9730P RADEON	861	619
Radeon R7 A12-9800 RADEON	1239	451
Radeon R7 A12-9800E RADEON	1185	464
Radeon R7 A265	987	552
Radeon R7 A370	1281	440
Radeon R7 A8 PRO-7600B	738	718
Radeon R7 A8-7500	1027	529
Radeon R7 A8-7500 4C+6G	853	622
Radeon R7 A8-7600	924	584
Radeon R7 A8-7650K	862	618
Radeon R7 A8-7670K	864	617
Radeon R7 A8-7680	855	620
Radeon R7 A8-8650	910	592
Radeon R7 A8-9600 RADEON	1084	499
Radeon R7 FX-8800P	890	602

Videocard Name	Passmark G3D Mark (higher is better)	Rank (lower is better)
Radeon R7 FX-9800P RADEON	833	633
Radeon R7 FX-9830P RADEON	1795	346
Radeon R7 M260	676	778
Radeon R7 M260DX	637	815
Radeon R7 M260X	1115	488
Radeon R7 M265	825	641
Radeon R7 M270	774	680
Radeon R7 M340	770	684
Radeon R7 M350	1260	446
Radeon R7 M360	729	722
Radeon R7 M365X	905	595
Radeon R7 M370	1417	406
Radeon R7 M440	951	572
Radeon R7 M445	1074	501
Radeon R7 M460	1153	476
Radeon R7 M465	1306	429
Radeon R7 M465X	2057	313
Radeon R7 Opteron X3421	1028	528
Radeon R7 PRO A10-8750B	954	571
Radeon R7 PRO A10-8770	1319	422
Radeon R7 PRO A10-8770E	1147	477
Radeon R7 PRO A10-8850B	945	576
Radeon R7 PRO A10-9700	1281	439
Radeon R7 PRO A10-9700B	1066	505
Radeon R7 PRO A10-9700E	1142	478
Radeon R7 PRO A12-8800B	743	711
Radeon R7 PRO A12-8830B	900	598
Radeon R7 PRO A12-8870	1375	412
Radeon R7 PRO A12-8870E	1160	471
Radeon R7 PRO A12-9800	1335	421
Radeon R7 PRO A12-9800B	807	655
Radeon R7 PRO A12-9800E	1014	536
Radeon R7 PRO A6-9500 2C+6G	781	674
Radeon R7 PRO A8-8650B	827	640
Radeon R7 PRO A8-9600	1049	516
Radeon R8 M445DX	811	652
Radeon R8 M535DX	724	727
Radeon R9 255	1807	344
Radeon R9 260	3018	242
Radeon R9 270 / R7 370	4260	180
Radeon R9 270X	4695	157
Radeon R9 280	5382	134
Radeon R9 280X	5850	121
Radeon R9 285 / 380	5549	130
Radeon R9 290 / 390	7148	102

Radeon R9 290X / 390X	7448	97
Radeon R9 295X2	7776	89
Radeon R9 350	2235	292
Radeon R9 360	3031	240
Radeon R9 370	4722	156
Radeon R9 380	6151	112
Radeon R9 380X	6229	111
Radeon R9 390	8104	82
Radeon R9 390X	8497	77
Radeon R9 Fury	9198	66
Radeon R9 Fury + Fury X	8462	78
Radeon R9 M265X	1298	431
Radeon R9 M270X	1417	405
Radeon R9 M275	1114	489
Radeon R9 M275X / M375	1516	390
Radeon R9 M290X	4069	187
Radeon R9 M295X	5150	143
Radeon R9 M360	2070	311
Radeon R9 M370X	1944	331
Radeon R9 M375	1239	453
Radeon R9 M375X	2107	306
Radeon R9 M380	3101	234
Radeon R9 M385X	824	642
Radeon R9 M390X	4356	173
Radeon R9 M395	5022	146
Radeon R9 M395X	5782	124
Radeon R9 M470	2435	272
Radeon R9 M470X	3563	204
Radeon RX 460	4333	175
Radeon RX 470	7731	92
Radeon RX 480	8143	81
Radeon RX 540	2339	279
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
Radeon RX 550	3444	214
Radeon RX 550X	2367	277
Radeon RX 560	4323	176
Radeon RX 560X	3454	212
Radeon RX 570	6905	105
Radeon RX 5700	12232	30
Radeon RX 5700 XT	13681	16
Radeon RX 5700 XT 50th Anniversary	13611	19
Radeon RX 580	8537	75
Radeon RX 580 2048SP	8563	74
Radeon RX 590	9430	62
Radeon RX Vega 10	1714	355
Radeon RX Vega 11	2276	284

Radeon RX Vega 56	12027	32
Radeon RX Vega 64	12124	31
Radeon RX Vega 8	1763	350
Radeon RX Vega M GH	7048	104
Radeon RX Vega M GL	5229	142
Radeon Sky 500	4889	151
Radeon TM R9 A360	2148	301
Radeon Vega 10	1788	349
Radeon Vega 10 Mobile	1655	366
Radeon Vega 11	834	631
Radeon Vega 3	1074	502
Radeon Vega 3 Mobile	1074	503
Radeon Vega 6	1578	379
Radeon Vega 8	1738	352
Radeon Vega 8 Mobile	1640	369
Radeon Vega Frontier Edition	11151	41
Radeon VII	14147	13
Radeon X1050	49	1452
Radeon X1200	32	1515
Radeon X1250	37	1494
Radeon X1270	31	1521
Radeon X1300	58	1429
Radeon X1300 PRO	84	1358
Radeon X1550	66	1406
Radeon X1550 64-bit	47	1457
Radeon X1600	49	1450
Radeon X1600 Pro	98	1314
Radeon X1600 Pro / X1300XT	69	1396
Radeon X1600 XT	115	1271
Radeon X1650 GTO	74	1382
Radeon X1650 Pro	84	1355
Radeon X1650 SE	71	1390
Radeon X1700 Targa Edition	116	1269
Radeon X1800 GTO	140	1229
Radeon X1900 CrossFire Edition	137	1238
Radeon X1900 GT	145	1224
Videocard Name	**Passmark G3D Mark** (higher is better)	**Rank** (lower is better)
Radeon X1950 CrossFire Edition	151	1218
Radeon X1950 GT	106	1296
Radeon X1950 Pro	113	1279
RADEON X300SE	38	1491
RADEON X550	50	1445
RADEON X550XT	56	1436
Radeon X550XTX	70	1391
RADEON X600 256MB HyperMemory	56	1435
RADEON X600XT	91	1340

RADEON X700	72	1387
RADEON X700 PRO	75	1379
RADEON X700 SE	71	1389
RADEON X800 GT	84	1359
RADEON X800 GTO	76	1377
RADEON X800 PRO	64	1411
RADEON X800 PRO/GTO	73	1385
RADEON X800 XL	69	1394
RADEON X800 XT	97	1324
RADEON X800GT	79	1376
RADEON X850 PRO	72	1386
RADEON X850 XT	81	1371
RADEON X850 XT Platinum Edition	81	1364
Radeon Xpress 1100	34	1508
Radeon Xpress 1150	29	1525
Radeon Xpress 1200	35	1499
Radeon Xpress 1250	42	1473
Radeon Xpress 1270	26	1536
RADEON XPRESS 200	29	1526
RADEON XPRESS 200M	22	1553
RadeonT R5 430	1123	485
RadeonT R7 450	2184	299
RAGE 128 PRO AGP 4X TMDS	1	1695
Rage Fury Pro/Xpert 2000 Pro	3	1672
Red Hat QXL controller	31	1518
RGH Drivers v3	11	1582
RIVA TNT2 Model 64/Model 64 Pro	3	1656
RIVA TNT2/TNT2 Pro	3	1665
RV530 PRO	118	1263
Ryzen 5 2500U with Radeon Vega	1503	393
Ryzen 7 2700U with Radeon Vega	1617	372
S3 Chrome 430 ULP	39	1483
S3 Chrome S25 DDR2	18	1562
S3 ProSavageDDR	1	1694
SAPPHIRE RADEON 9600 ATLANTIS	47	1458
SAPPHIRE Radeon X1550	61	1420
Sapphire RADEON X800 GT	112	1281
SUMO 9640	650	803
SUMO 964A	497	960
Tesla C2050	3515	209
Videocard Name	**Passmark G3D Mark**	**Rank**
	(higher is better)	**(lower is better)**
Tesla C2050 / C2070	3428	215
Tesla C2070	3274	222
Tesla C2075	3364	217
Tesla M60	7191	100
Tesla P100-PCIE-16GB	7225	99

TITAN RTX	16515	3
TITAN V	14489	10
TITAN V CEO Edition	16987	1
TITAN Xp COLLECTORS EDITION	15112	6
TRINITY DEVASTATOR MOBILE	699	755
TRINITY SCRAPPER MOBILE	498	959
Vanta/Vanta LT	3	1674
VIA Chrome9 HC IGP	4	1644
VIA Chrome9 HC IGP Family	3	1654
VIA Chrome9 HC IGP Family WDDM	3	1663
VIA Chrome9 HC IGP Prerelease WDDM 1.1	2	1682
VIA Chrome9 HC IGP WDDM	2	1681
VIA Chrome9 HC IGP WDDM 1.1	2	1680
VIA Chrome9 HCM IGP	1	1693
VIA Chrome9 HD IGP	10	1584
VIA/S3G Chrome 645/640 GPU	109	1292
VIA/S3G DeltaChrome IGP	3	1667
VIA/S3G KM400/KN400	4	1649
VIA/S3G UniChrome IGP	4	1645
VIA/S3G UniChrome Pro IGP	4	1634
VIA/S3G UniChromeII	5	1612
Wine Display Adapter	261	1115
Xabre	5	1627
XFX Radeon HD 4650 AGP	109	1290