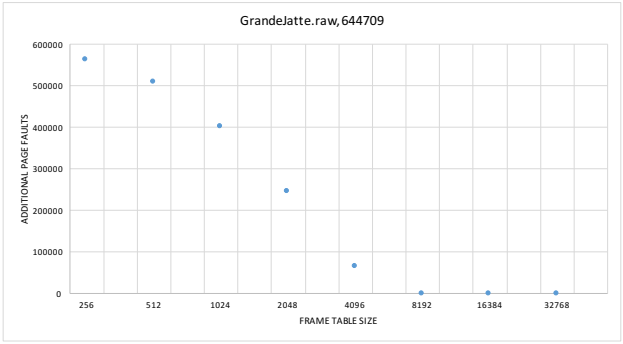
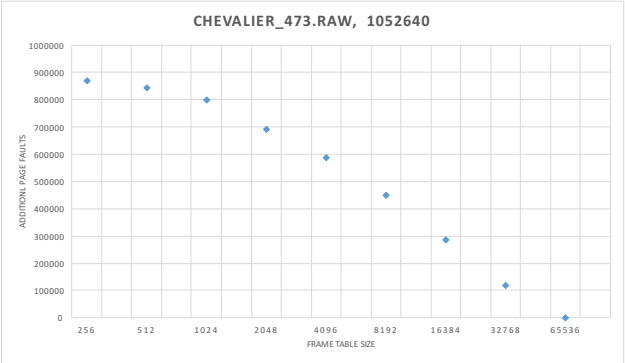
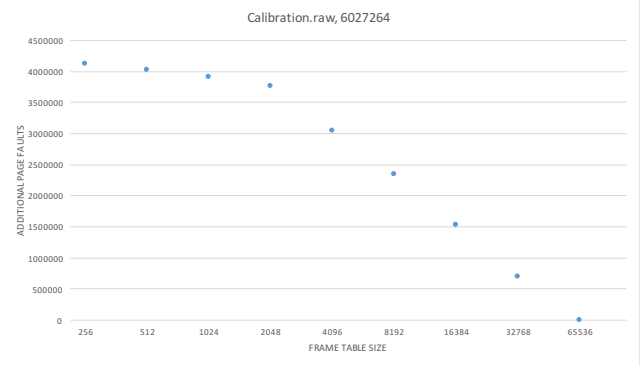
PictureName	FrameTableSize	Hit	Miss	CacheType	Additional Misses
GrandeJatte.raw	256	76650	568059	FIFO	561201
GrandeJatte.raw		637851	6858	UNLIMITED	
GrandeJatte.raw	512	128518	516191	FIFO	509333
GrandeJatte.raw		637851	6858	UNLIMITED	
GrandeJatte.raw	1024	235980	408729	FIFO	401871
GrandeJatte.raw		637851	6858	UNLIMITED	
GrandeJatte.raw	2048	391306	253403	FIFO	246545
GrandeJatte.raw		637851	6858	UNLIMITED	
GrandeJatte.raw	4096	572218	72491	FIFO	65633
GrandeJatte.raw		637851	6858	UNLIMITED	
GrandeJatte.raw	8192	637851	6858	FIFO	0
GrandeJatte.raw		637851	6858	UNLIMITED	
GrandeJatte.raw	16384	637851	6858	FIFO	0
GrandeJatte.raw		637851	6858	UNLIMITED	
GrandeJatte.raw	32768	637851	6858	FIFO	0
GrandeJatte.raw		637851	6858	UNLIMITED	



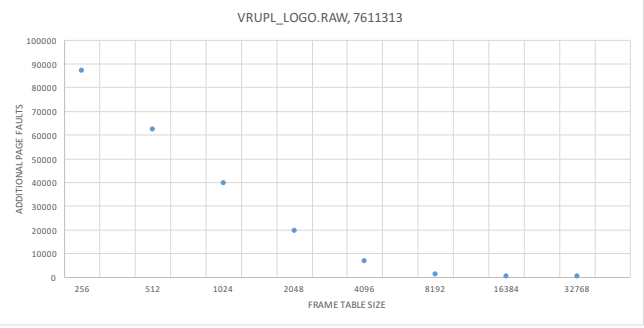
Chevalier_473.raw	256	120609	932031	FIFO	868894
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	512	146995	905645	FIFO	842508
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	1024	189412	863228	FIFO	800091
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	2048	296729	755911	FIFO	692774
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	4096	403562	649078	FIFO	585941
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	8192	538820	513820	FIFO	450683
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	16384	701930	350710	FIFO	287573
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	32768	869723	182917	FIFO	119780
Chevalier_473.raw		989503	63137	UNLIMITED	
Chevalier_473.raw	65536	989503	63137	FIFO	0
Chevalier_473.raw		989503	63137	UNLIMITED	



calibration.raw	256	1840206	4187058	FIFO	4121692
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	512	1937006	4090258	FIFO	4024892
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	1024	2062405	3964859	FIFO	3899493
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	2048	2202153	3825111	FIFO	3759745
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	4096	2916745	3110519	FIFO	3045153
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	8192	3616125	2411139	FIFO	2345773
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	16384	4439997	1587267	FIFO	1521901
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	32768	5269119	758145	FIFO	692779
calibration.raw		5961898	65366	UNLIMITED	
calibration.raw	65536	5961852	65412	FIFO	46
calibration.raw		5961898	65366	UNLIMITED	



VRUPL_Logo.raw	256	7515638	95675	FIFO	86735
VRUPL_Logo.raw		7602373	8940	UNLIMITED	
VRUPL_Logo.raw	512	7540399	70914	FIFO	61974
VRUPL_Logo.raw		7602373	8940	UNLIMITED	
VRUPL_Logo.raw	1024	7562988	48325	FIFO	39385
VRUPL_Logo.raw		7602373	8940	UNLIMITED	
VRUPL_Logo.raw	2048	7583167	28146	FIFO	19206
VRUPL_Logo.raw		7602373	8940	UNLIMITED	
VRUPL_Logo.raw	4096	7595930	15383	FIFO	6443
VRUPL_Logo.raw		7602373	8940	UNLIMITED	
VRUPL_Logo.raw	8192	7601546	9767	FIFO	827
VRUPL_Logo.raw		7602373	8940	UNLIMITED	
VRUPL_Logo.raw	16384	7602373	8940	FIFO	0
VRUPL_Logo.raw		7602373	8940	UNLIMITED	
VRUPL_Logo.raw	32768	7602373	8940	FIFO	0
VRUPL_Logo.raw		7602373	8940	UNLIMITED	



From the analysis, it is clear that the infinite memory is preferable in general when compared to the finite memory. This can be see in all of the different date files. The finite memory hits were significantly higher than the infinite memory misses in most cases. For example, if we take Chevalier_473.raw file, which covers the full spectrum of the colors, for the smaller frame table sizes, the FIFO simulation resulted in considerably larger misses. However, as we increase the frametable size as obersved above, the number of misses decreases since more data can be loaded into the frametable at once. And if we keep going on increasing the frame table sizes, till 65356 which corresponds infinite memory, we see the number of additional page faults decrease eventually hitting 0 (no more additional page faults, same as infinite memory). In the case of VRUPL_LOGO, we see that most of the numbers are 0's and 255's. And if we observe the spectrum, we can notice that the majority of it is in either sides. There are only 4 colors, so it has a strong locality. This can also be observed in the table and the graph. The FIFO and the infinite simulation resulted in somewhat closer numbers when compared to the other files. There are significantly more hits in both FIFO and inifite memory simulation which makes sense due to the strong locality. So overall, from the tables and graphs, we can notice that as we increase the frame tables and near the infinite memory size, the number of misses decreases. This is clearly visible for files with lots of variation and misses to begin with.

Chevalier_473.nz	256	98290	915323	FIFO	852648
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	512	121579	892034	FIFO	829359
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	1024	160528	853085	FIFO	790410
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	2048	259128	754485	FIFO	691810
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	4096	362328	651285	FIFO	588610
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	8192	496508	517105	FIFO	454430
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	16384	658662	354951	FIFO	292276
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	32768	828647	184966	FIFO	122291
Chevalier_473.nz		950938	62675	UNLIMITED	
Chevalier_473.nz	65536	950938	62675	FIFO	0
Chevalier_473.nz		950938	62675	UNLIMITED