PictureName	FrameTableSize	Hit	Miss	CacheType	Additional Misses	
GrandeJatte.raw	256	76650	568059	FIFO	561201	
GrandeJatte.raw	230	637851	6858	UNLIMITED		
GrandeJatte.raw	512	128518	516191	FIFO	509333	
GrandeJatte.raw	312	637851	6858	UNLIMITED	305333	
GrandeJatte.raw	1024	235980	408729	FIFO	401871	
GrandeJatte.raw	1024	637851	6858	UNLIMITED	4018/1	
GrandeJatte.raw	2048	391306	253403	FIFO	246545	
GrandeJatte.raw	2048	637851	6858	UNLIMITED		
GrandeJatte.raw	4096	572218	72491	FIFO	65633	
GrandeJatte.raw	4030	637851	6858	UNLIMITED	03033	
GrandeJatte.raw	8192	637851	6858	FIFO	0	
GrandeJatte.raw	8192	637851	6858	UNLIMITED	U	
GrandeJatte.raw	16384	637851	6858	FIFO	0	
GrandeJatte.raw	10364	637851	6858	UNLIMITED	U	
GrandeJatte.raw	32768	637851	6858	FIFO	0	
GrandeJatte.raw	32/08	637851	6858	UNLIMITED	U	

Chevalier_473.raw	256	120609	932031	FIFO	868894	
Chevalier_473.raw		989503	63137	UNLIMITED	808894	
Chevalier_473.raw	512	146995	905645	FIFO	842508	
Chevalier_473.raw	512	989503	63137	UNLIMITED		
Chevalier_473.raw	1024	189412	863228	FIFO	800091	
Chevalier_473.raw	1024	989503	63137	UNLIMITED		
Chevalier_473.raw	2048	296729	755911	FIFO	692774	
Chevalier_473.raw		989503	63137	UNLIMITED	032774	
Chevalier_473.raw	4096	403562	649078	FIFO	585941	
Chevalier_473.raw	4096	989503	63137	UNLIMITED	585941	
Chevalier_473.raw	8192	538820	513820	FIFO	450683	
Chevalier_473.raw		989503	63137	UNLIMITED	450683	
Chevalier_473.raw	16384	701930	350710	FIFO	287573	
Chevalier_473.raw	10384	989503	63137	UNLIMITED	28/3/3	
Chevalier_473.raw	32768	869723	182917	FIFO	119780	
Chevalier_473.raw		989503	63137	UNLIMITED	113/80	
Chevalier_473.raw	65536	989503	63137	FIFO	0	
Chevalier_473.raw	05556	989503	63137	UNLIMITED	U	

			CHEV	ALIER_4	73.RAW,	, 10526	40		
1000000									
900000									
800000		•	-						
700000									
500000									
500000									
400000						•			
300000							•		
200000									
100000								•	
0	256	512	1024	2048	4096	8192	16384	32768	65536

2048 4096 FRAME TABLE SIZE 8192

16384

32768

GrandeJatte.raw, 644709

ADDITIONAL PAGE FAULTS
000000
0000000

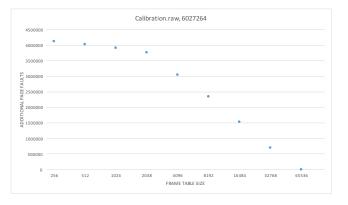
256

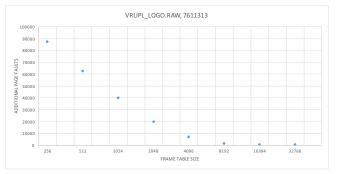
512

1024

calibration.raw	256	1840206	4187058	FIFO	4121692	
calibration.raw	230	5961898	65366	UNLIMITED	4121032	
calibration.raw	512	1937006	4090258	FIFO	4024892	
calibration.raw	512	5961898	65366	UNLIMITED	4024892	
calibration.raw	1024	2062405	3964859	FIFO	3899493	
calibration.raw	1024	5961898	65366	UNLIMITED	3033433	
calibration.raw	2048	2202153	3825111	FIFO	3759745	
calibration.raw	2048	5961898	65366	UNLIMITED	3/59/45	
calibration.raw	4096	2916745	3110519	FIFO	3045153	
calibration.raw	4096	5961898	65366	UNLIMITED	3045153	
calibration.raw	8192	3616125	2411139	FIFO	2345773	
calibration.raw	8192	5961898	65366	UNLIMITED		
calibration.raw	16384	4439997	1587267	FIFO	1521901	
calibration.raw	10364	5961898	65366	UNLIMITED	1321901	
calibration.raw	32768	5269119	758145	FIFO	692779	
calibration.raw	32/08	5961898	65366	UNLIMITED	052//9	
calibration.raw	65536	5961852	65412	FIFO	46	
calibration.raw	03330	5961898	65366	UNLIMITED	40	

VRUPL_Logo.raw	256	7515638	95675	FIFO	86735	
VRUPL_Logo.raw	250	7602373	8940	UNLIMITED	80733	
VRUPL_Logo.raw	512	7540399	70914	FIFO	61974	
VRUPL_Logo.raw	312	7602373	8940	UNLIMITED	01574	
VRUPL_Logo.raw	1024	7562988	48325	FIFO	39385	
VRUPL_Logo.raw	1024	7602373	8940	UNLIMITED	39385	
VRUPL_Logo.raw	2048	7583167	28146	FIFO	19206	
VRUPL_Logo.raw	2046	7602373	8940	UNLIMITED	19200	
VRUPL_Logo.raw	4096	7595930	15383	FIFO	6443	
VRUPL_Logo.raw	4096	7602373	8940	UNLIMITED	6443	
VRUPL_Logo.raw	8192	7601546	9767	FIFO	827	
VRUPL_Logo.raw	8192	7602373	8940	UNLIMITED	627	
VRUPL_Logo.raw	16384	7602373	8940	FIFO	0	
VRUPL_Logo.raw	10384	7602373	8940	UNLIMITED	Ü	
VRUPL_Logo.raw	32768	7602373	8940	FIFO	0	
VRUPL_Logo.raw	32/08	7602373	8940	UNLIMITED	J.	





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	250	950938	62675	UNLIMITED	832048	
Chevalier_473.nz	512	121579	892034	FIFO	829359	
Chevalier_473.nz	312	950938	62675	UNLIMITED	025535	
Chevalier_473.nz	1024	160528	853085	FIFO	790410	
Chevalier_473.nz	1024	950938	62675	UNLIMITED	750410	
Chevalier_473.nz	2048	259128	754485	FIFO	691810	
Chevalier_473.nz	2048	950938	62675	UNLIMITED	991910	
Chevalier_473.nz	4096	362328	651285	FIFO	588610	
Chevalier_473.nz	4096	950938	62675	UNLIMITED	200010	
Chevalier_473.nz	8192	496508	517105	FIFO	454430	
Chevalier_473.nz	8192	950938	62675	UNLIMITED		
Chevalier_473.nz	16384	658662	354951	FIFO	292276	
Chevalier_473.nz	10364	950938	62675	UNLIMITED	252270	
Chevalier_473.nz	32768	828647	184966	FIFO	122291	
Chevalier_473.nz	32/00	950938	62675	UNLIMITED	122251	
Chevalier_473.nz	65536	950938	62675	FIFO	0	
Chevalier_473.nz	05350	950938	62675	UNLIMITED	U	

