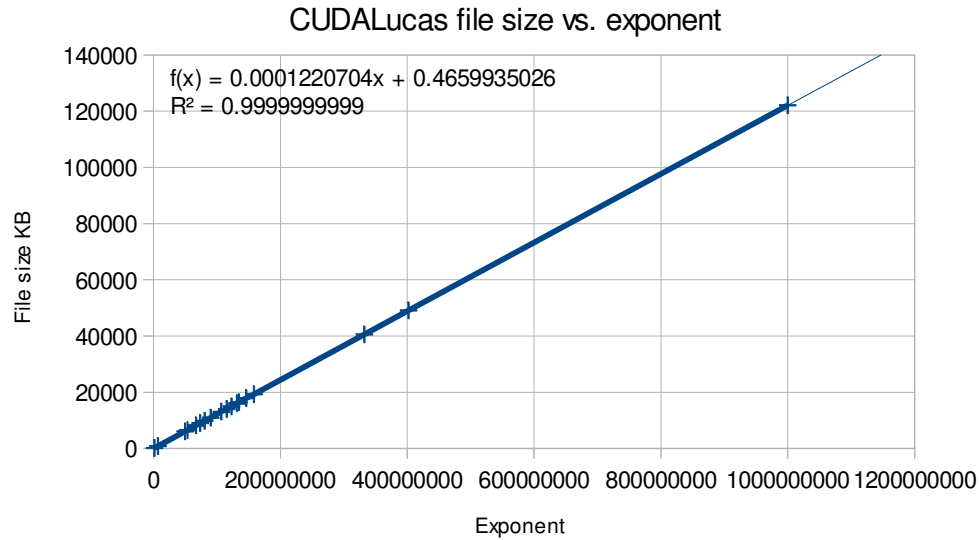


CUDALucas V2.06 file size vs. exponent

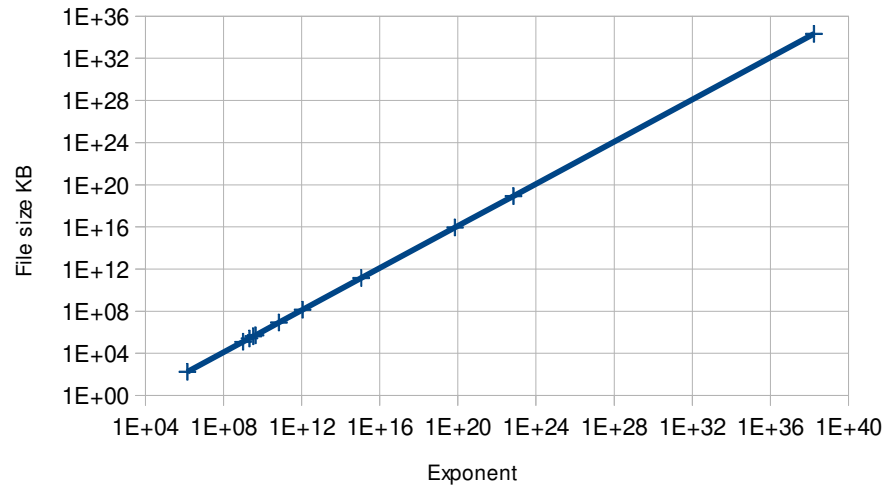
Exponent	KB
1398269	171
6972953	852
49872167	6088
53607079	6544
67002757	8180
73565413	8981
80410087	9816
90001997	10987
107000183	13062
115218151	14065
122743793	14984
131313113	16030
134535607	16423
146383001	17870
158111221	19301
332197331	40552
402143717	49090
999999937	122071



ax+b, a= 0.000122207
 b 0.465993503

CUDALucas file size extrapolation

Exponent	Est. size KB	Notes
1398269	171	
999999937	122207	
2147483647	262438	$2^{31}-1$
3321928097	405963	gigadigit
4294967291	524876	$2^{32}-5$ 0.5GB
68719476736	8398004	2^{36} ~8GB
1.0995E+012	134368062	2^{40} 134GB
1.1259E+015	1.38E+11	2^{50} 138TB
7.1324E+019	8.72E+15	66 bit
7.0237E+022	8.58E+18	76 bit
1.7014E+038	2.08E+34	127 bit



File system Max file size bytes
 NTFS, ZFS 2^{64} 1.84E+19
 (enough for a ~67-bit exponent)

https://en.wikipedia.org/wiki/Comparison_of_file_systems