

========== Round 6 =========== shift out : b49eb3244fc723b961a9c2489c1b5033
 sub_out
 : b41bc2b94f9e504861c7b3339ca92324

 add_out
 : b118702742236bd031c2866f07dde935

 mix_out
 : 5d793ba256061e5ca83d8f586d697292
====== Round 7 ======== shift_out : c82644962c251eccc7c15170c5ad7fa8
 sub_out
 : c8ad51cc2c267f70c72544a8c5c11e96

 add_out
 : 12abd091d0d818c740725f1e6cb68556

 mix_out
 : 33dec716e5887accecdd3422aaad75cd
======= Round 8 ======== shift_out : c961cfb170409781094e70c65062ad72
 sub_out
 : c96270817061adc60940cf72504e97b1

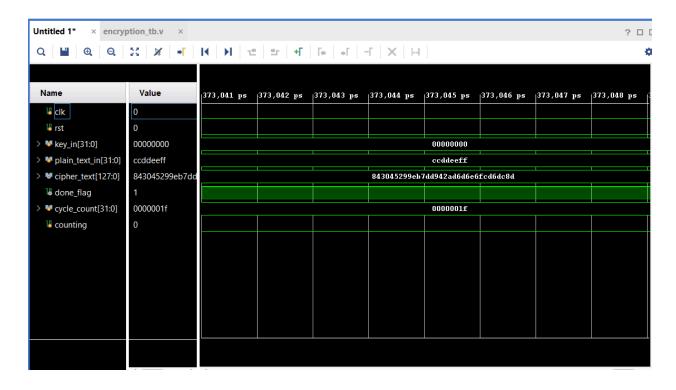
 add_out
 : 5a09e6a40d7afc66e1c5fcb688171f44

 mix_out
 : 54f0e59736d39d5e76c3f6b2d90ae5db
shift_out : bedab01bd7a6c049f8f08e33c401b04e
 sub_out
 : be018e49d7dab033f8a6b04ec4f0c01b

 add_out
 : 0815ea6747ef884c40c2e9d52225253b

 mix_out
 : b9c13285cd9231965db95a0b6e436c7a
Decrypted Plaintext: 843045299eb7dd942ad6d6e6fcd6dc8d : 31 cycles : 412 Mbps

\$finish called at time : 385 ns : File "C:/Users/User/OneDrive/Desktop/EEE6225/encryption/encryption.srcs/sim_1/new/encryption_tb.v" Line 81 xsim: Time (s): cpu = 00:00:06 ; elapsed = 00:00:12 . Memory (MB): peak = 2019.816 ; gain = 0.000



Setup			Hold		Pulse Width		
	Worst Negative Slack (WNS):	3.027 ns	Worst Hold Slack (WHS):	0.132 ns	Worst Pulse Width Slack (WPWS): 4.50	00 ns	
	Total Negative Slack (TNS):	0.000 ns	Total Hold Slack (THS):	0.000 ns	Total Pulse Width Negative Slack (TPWS): 0.00	00 ns	
	Number of Failing Endpoints:	0	Number of Failing Endpoints:	0	Number of Failing Endpoints: 0		
	Total Number of Endpoints:	11815	Total Number of Endpoints:	11815	Total Number of Endpoints: 6040	0	

All user specified timing constraints are met.

Resource	Standard Versi	on	Optimised Version	
	Utilisation	Utilisation %	Utilisation	Utilisation %
LUT	4347	6.86	3925	6.19
FF	4765	3.76	4887	3.85
Ю	387	184.29	195	92.86