Final_with_comp (Calls: 1, Time: 104.925 s)

Generated 20-May-2021 13:35:38 using performance time.
Script in file D:\Matlab\ITC_project\Final_with_comp.m
Copy to new window for comparing multiple runs

Parents (calling functions)

No parent

Lines that take the most time

Line Number	Code	Calls	Total Time (s)	% Time	Time Plot	
18	LZ78_compression(Text_filename,'comp_tx.LZ78');	1	96.962	92.4%	▇▇▇▇▇	
25	im_stego_txt(Algorithm, k, 'stego.png', 'cipher…	1	4.903	4.7%	▏	
20	txt_stego_im(Algorithm, k, 'Lena.png', 'cipher_…	1	2.029	1.9%	▏	
27	LZ78_decompression_v2('comp_rx.LZ78', 'Rx.txt');	1	0.895	0.9%	▏	
26	decrypt('cipher_comp_rx.LZ78', 'comp_rx.LZ78', b…	1	0.056	0.1%		
All other lines			0.079	0.1%		
Totals			104.925	100%		

Children (called functions)

Function Name	Function Type	Calls	Total Time (s)	% Time	Time Plot
LZ78_compression	Function	1	96.962	92.4%	▇▇▇▇▇
im_stego_txt	Function	1	4.903	4.7%	▮
txt_stego_im	Function	1	2.028	1.9%	▏
LZ78_decompression_v2	Function	1	0.895	0.9%	▏
decrypt	Function	1	0.055	0.1%	
encrypt	Function	1	0.052	0.0%	
QKD	Function	1	0.007	0.0%	
close	Function	1	0.005	0.0%	
Self time (built-ins, overhead, etc.)			0.017	0.0%	
Totals			104.925	100%	

Code Analyzer results

No Code Analyzer messages.

Coverage results

Function listing

```
Time      Calls    Line
 0.006        1      1    clear; clc; close all
                     2
                     3    %% Quantum Key Distribution
                     4
 0.007        1      5    [ak,bk] = QKD(100,0);
                     6
< 0.001        1      7    Text_filename = 'Test.txt';
< 0.001        1      8    Algorithm = 'kLSB';
                     9
< 0.001        1     10    k = 0;
< 0.001        1     11    if string(Algorithm) == "kLSB"
                    12        %k = input("Enter k in kLSB : ");
```

```
< 0.001          1    13          k=4;
< 0.001          1    14    end

                      15

                      16    %% Transmitter side

                      17

  96.962          1    18    LZ78_compression(Text_filename,'comp_tx.LZ78');
   0.053          1    19    encrypt('comp_tx.LZ78','cipher_comp_tx.LZ78',ak);
   2.029          1    20    txt_stego_im( Algorithm, k, 'Lena.png', 'cipher_comp_tx.LZ78', 'stego.png');

                      21

                      22    %% Receiver side

                      23

                      24

   4.903          1    25    im_stego_txt( Algorithm, k, 'stego.png', 'cipher_comp_rx.LZ78');
   0.056          1    26    decrypt('cipher_comp_rx.LZ78', 'comp_rx.LZ78', bk);
   0.895          1    27    LZ78_decompression_v2('comp_rx.LZ78', 'Rx.txt');

                      28

                      29    %% checking

                      30

< 0.001          1    31    fid = fopen(Text_filename,'r');
   0.003          1    32    x = char(fread(fid)');
< 0.001          1    33    fclose(fid);

                      34

< 0.001          1    35    fid = fopen('Rx.txt','r');
   0.003          1    36    y = char(fread(fid)');
< 0.001          1    37    fclose(fid);

                      38

   0.005          1    39    disp(sum(x(1:length(y))==y))
```

Local functions in this file are not included in this listing.