

---

```

clear all
close all

H = 100;
Component_latency = 25;
WIDTH = 24;
FRACT = 15;
SIGN = 0;

%read files
myfile = fopen('input.txt','r');
line_in = fgetl(myfile);
a = fi(0,SIGN,WIDTH,FRACT);
index = 1;
while ischar(line_in)
    a.bin = line_in;
    my_test_vectors(index) = a;
    disp([num2str(index) ' : ' line_in ' = ' num2str(a)])
    index = index + 1;
    line_in = fgetl(myfile);
end
fclose(myfile);
%Find the actual sqrt of the input
for i=1:H
    input = my_test_vectors(i);
    mVect(i) = 1/(sqrt(input));
end

%Read in the zeroth iteration output
vVect0 = readoutput('Output0.txt',SIGN,WIDTH,FRACT);
vVect1 = readoutput('Output1.txt',SIGN,WIDTH,FRACT);
vVect2 = readoutput('Output2.txt',SIGN,WIDTH,FRACT);
vVect3 = readoutput('Output3.txt',SIGN,WIDTH,FRACT);
vVect4 = readoutput('Output4.txt',SIGN,WIDTH,FRACT);
vVect5 = readoutput('Output5.txt',SIGN,WIDTH,FRACT);

disp('Error perctange')
%Find error between matlab vs vhdl zero iterations
error = error_function(mVect,vVect0,H);
error1 = error_function(mVect,vVect1,H);
error2 = error_function(mVect,vVect2,H);
error3 = error_function(mVect,vVect3,H);
error4 = error_function(mVect,vVect4,H);
error5 = error_function(mVect,vVect5,H);

%-----
disp('Matlab actual data')
mVect.data

disp('-----')
disp('Y0')

```

---

---

```

vVect0.data
disp('Possible Error')
error.data

disp('-----')
disp('Iteration 1')
vVect1.data
disp('Error Percantage')
error1.data

disp('-----')
disp('Iteration 2')
vVect2.data
disp('Possible Error')
error2.data

disp('-----')
disp('Iteration 3')
vVect3.data
disp('Possible Error')
error3.data

disp('-----')
disp('Iteration 4')
vVect4.data
disp('Possible Error')
error4.data

disp('-----')
disp('Iteration 5')
vVect5.data
disp('Possible Error')
error5.data

plot(0,error.double,'o');
title('Percent error per Iteration')
xlabel('N iteration')
ylabel('Error')
hold on
plot(1,error1.double,'o');
plot(2,error2.double,'o');
plot(3,error3.double,'o');
plot(4,error4.double,'o');
plot(5,error5.double,'o');
hold off

1 : 000000001000000000000000 = 1
2 : 000000100000000000000000 = 4
3 : 000001001000000000000000 = 9
4 : 000100111000111101001011 = 39.1195
5 : 101000111111000010111000 = 327.8806

```

---

---

6 : 011111010110100110011111 = 250.8252  
7 : 111000110010101011101111 = 454.3354  
8 : 100000111101100011110100 = 263.6949  
9 : 111101000000111110110010 = 488.1226  
10 : 000011001110101010110111 = 25.8337  
11 : 110110111000011100000010 = 439.0547  
12 : 101101100110000001100010 = 364.753  
13 : 011001011000001100011100 = 203.0243  
14 : 001000110111100011010111 = 70.9441  
15 : 011110101001111100010100 = 245.2428  
16 : 001010111110001000011100 = 87.7665  
17 : 111010111110010000000000 = 471.7813  
18 : 111010111110110011010010 = 471.8502  
19 : 001111101100100110101001 = 125.5755  
20 : 001100101100011110000101 = 101.5587  
21 : 010000110010101111001101 = 134.3422  
22 : 110011101110111110010011 = 413.8717  
23 : 110001101000111101111110 = 397.121  
24 : 011100101011101111010101 = 229.4674  
25 : 001101110011100100110011 = 110.4469  
26 : 100111010010110111001011 = 314.3578  
27 : 110010001100000110111110 = 401.5136  
28 : 011010011100011111001100 = 211.5609  
29 : 001011100111000100110101 = 92.8844  
30 : 010010010000011011100001 = 146.0537  
31 : 000111001001111010010111 = 57.239  
32 : 010111111100110011111111 = 191.6015  
33 : 010101110011100100100001 = 174.4463  
34 : 011000110111111011101011 = 198.9915  
35 : 011010111010111011101010 = 215.3665  
36 : 100010000100001011101110 = 272.5229  
37 : 100101111000000000100111 = 303.0012  
38 : 111001011111010101001011 = 459.9164  
39 : 100011110001110101110000 = 286.23  
40 : 011100101110001010000001 = 229.7696  
41 : 011100110011010101111100 = 230.4178  
42 : 110011010001101111010100 = 410.2174  
43 : 101001111101111111000111 = 335.7483  
44 : 010110010111000110001000 = 178.887  
45 : 100100101101111111111000 = 293.7498  
46 : 100101111100001101000010 = 303.5255  
47 : 110011101100100001010100 = 413.5651  
48 : 100000111100010111110100 = 263.5465  
49 : 101100001011111011100001 = 353.4912  
50 : 001001101101001101111001 = 77.6521  
51 : 000001110010111000010100 = 14.36  
52 : 011010110001111100100111 = 214.2434  
53 : 011011010100011101010111 = 218.5573  
54 : 010001101010100010011010 = 141.3172  
55 : 000111100010100100101101 = 60.3217  
56 : 110010011101100011100001 = 403.6944  
57 : 001110100000100101000111 = 116.0725  
58 : 101110011010001010101001 = 371.2708  
59 : 111110010000101111111110 = 498.0937

---

---

60 : 100101000001111000010111 = 296.2351  
61 : 111100111001101110001100 = 487.2152  
62 : 010010001111110010000000 = 145.9727  
63 : 110101011100000000111001 = 427.5017  
64 : 111110110011000111111111 = 502.3906  
65 : 110010010100011001001000 = 402.5491  
66 : 101000010010010011111010 = 322.2889  
67 : 000000110110011001001010 = 6.7991  
68 : 100100011011101001100110 = 291.4562  
69 : 111011101001010000011100 = 477.1571  
70 : 001000000011000001001001 = 64.3772  
71 : 111010101011000001000000 = 469.377  
72 : 010001100100011001100111 = 140.55  
73 : 101001110001000011110100 = 334.1324  
74 : 101101110100010001101110 = 366.5346  
75 : 110110001101011000011000 = 433.6726  
76 : 100101000101110100010000 = 296.7271  
77 : 011000000100100010010000 = 192.5669  
78 : 011010011001011111010100 = 211.1862  
79 : 111111010100000100010000 = 506.5083  
80 : 011101101100111000010100 = 237.61  
81 : 110010110111101001001100 = 406.9554  
82 : 110010100111010010111100 = 404.912  
83 : 000110101010001110111100 = 53.2792  
84 : 000010000011001110100111 = 16.4035  
85 : 001011010011010111010110 = 90.4206  
86 : 111000001011001001001111 = 449.393  
87 : 100101111100011011001110 = 303.5532  
88 : 101011000101000111000111 = 344.6389  
89 : 010110000011110001111110 = 176.4726  
90 : 101111111000101110000011 = 383.0899  
91 : 111111110111111001111111 = 510.9883  
92 : 110000011100001000001011 = 387.516  
93 : 100111000111101101100001 = 312.9639  
94 : 100111000100010110000100 = 312.5431  
95 : 000011101000010010010110 = 29.0358  
96 : 011101101001011011001011 = 237.1781  
97 : 111001101100001110001010 = 461.5276  
98 : 010001100011010001100110 = 140.4094  
99 : 101111000011110001010000 = 376.4712  
100 : 100001001011001110010110 = 265.403  
101 : 000000000000000000000000 = 0  
102 : 000000000000000000000000 = 0  
103 : 000000000000000000000000 = 0  
104 : 000000000000000000000000 = 0  
105 : 000000000000000000000000 = 0  
106 : 000000000000000000000000 = 0  
107 : 000000000000000000000000 = 0  
108 : 000000000000000000000000 = 0  
109 : 000000000000000000000000 = 0  
110 : 000000000000000000000000 = 0  
111 : 000000000000000000000000 = 0  
112 : 000000000000000000000000 = 0

---



---

38 : 000000000000010111110011 = 0.046478  
39 : 000000000000011110001011 = 0.058929  
40 : 0000000000000100001011100 = 0.065308  
41 : 0000000000000100001100010 = 0.065491  
42 : 000000000000011001001110 = 0.049255  
43 : 000000000000011100001011 = 0.055023  
44 : 0000000000000100110010100 = 0.074829  
45 : 000000000000011110000110 = 0.058777  
46 : 000000000000011101010101 = 0.057281  
47 : 000000000000011001000010 = 0.048889  
48 : 000000000000011111101001 = 0.061798  
49 : 000000000000011011010000 = 0.053223  
50 : 0000000000000111010001110 = 0.11371  
51 : 000000000000010000101110010 = 0.26129  
52 : 0000000000000100010101101 = 0.06778  
53 : 0000000000000100010001101 = 0.066803  
54 : 0000000000000101011000101 = 0.084137  
55 : 00000000000001000010010001 = 0.12943  
56 : 000000000000011001100111 = 0.050018  
57 : 0000000000000101111001001 = 0.092072  
58 : 000000000000011010011101 = 0.051666  
59 : 000000000000010110110110 = 0.044617  
60 : 000000000000011101110010 = 0.058167  
61 : 000000000000010111010011 = 0.045502  
62 : 0000000000000101010011111 = 0.082977  
63 : 000000000000011000101000 = 0.048096  
64 : 000000000000010111000011 = 0.045013  
65 : 000000000000011001100011 = 0.049896  
66 : 000000000000011100101000 = 0.055908  
67 : 00000000000011000101001011 = 0.3851  
68 : 000000000000011110001010 = 0.058899  
69 : 000000000000010111010011 = 0.045502  
70 : 0000000000000111111110111 = 0.12473  
71 : 0000000000000101111110101 = 0.046539  
72 : 0000000000000101010110110 = 0.083679  
73 : 000000000000011100000011 = 0.054779  
74 : 000000000000011010110101 = 0.052399  
75 : 000000000000011000100011 = 0.047943  
76 : 000000000000011101110101 = 0.058258  
77 : 0000000000000100100011111 = 0.071259  
78 : 0000000000000100010110011 = 0.067963  
79 : 000000000000010110110000 = 0.044434  
80 : 0000000000000100001010001 = 0.064972  
81 : 000000000000011001011011 = 0.049652  
82 : 000000000000011001101100 = 0.050171  
83 : 00000000000001000110001111 = 0.13718  
84 : 00000000000001111111000111 = 0.24826  
85 : 0000000000000110101101011 = 0.10483  
86 : 000000000000011000001000 = 0.047119  
87 : 000000000000011101010101 = 0.057281  
88 : 000000000000011011100110 = 0.053894  
89 : 0000000000000100110010010 = 0.074768  
90 : 000000000000011010001011 = 0.051117  
91 : 000000000000010110111100 = 0.0448

---

---

92 : 0000000000000011010000111 = 0.050995

-----  
Reading in values from file output.txt

1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-binary std\_logic characters

1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-binary std\_logic characters

1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-binary std\_logic characters

1 : 000000001000000000000000 = 1

2 : 000000000100000000000000 = 0.5

3 : 000000000010101010101001 = 0.33328

4 : 000000000001010001110111 = 0.15988

5 : 000000000000011100010001 = 0.055206

6 : 000000000000100000010101 = 0.063141

7 : 000000000000011000000001 = 0.046906

8 : 00000000000001111100001 = 0.061554

9 : 000000000000010111001011 = 0.045258

10 : 0000000000001100100101110 = 0.19672

11 : 000000000000011000011011 = 0.047699

12 : 000000000000011010110011 = 0.052338

13 : 000000000000100011111011 = 0.07016

14 : 000000000000111100110010 = 0.11871

15 : 000000000000100000101100 = 0.063843

16 : 000000000000110110101001 = 0.10672

17 : 000000000000010111100100 = 0.046021

18 : 000000000000010111100100 = 0.046021

19 : 0000000000000101101101011 = 0.089203

20 : 0000000000000110010110011 = 0.099213

21 : 0000000000000101100001010 = 0.086243

22 : 000000000000011001001010 = 0.049133

23 : 000000000000011001101100 = 0.050171

---

24 : 0000000000000100001110010 = 0.065979  
 25 : 0000000000000110000101101 = 0.095123  
 26 : 000000000000011100111000 = 0.056396  
 27 : 000000000000011001100011 = 0.049896  
 28 : 0000000000000100011001100 = 0.068726  
 29 : 0000000000000110101000111 = 0.10373  
 30 : 0000000000000101010010111 = 0.082733  
 31 : 00000000000001000011101011 = 0.13217  
 32 : 0000000000000100100111111 = 0.072235  
 33 : 0000000000000100110110000 = 0.075684  
 34 : 0000000000000100100010010 = 0.070862  
 35 : 0000000000000100010111000 = 0.068115  
 36 : 000000000000011111000000 = 0.060547  
 37 : 000000000000011101011010 = 0.057434  
 38 : 000000000000010111110111 = 0.0466  
 39 : 000000000000011110010000 = 0.059082  
 40 : 0000000000000100001110001 = 0.065948  
 41 : 0000000000000100001101110 = 0.065857  
 42 : 000000000000011001010001 = 0.049347  
 43 : 000000000000011011111100 = 0.054565  
 44 : 0000000000000100110010001 = 0.074738  
 45 : 000000000000011101110111 = 0.058319  
 46 : 000000000000011101011000 = 0.057373  
 47 : 000000000000011001001011 = 0.049164  
 48 : 000000000000011111100010 = 0.061584  
 49 : 000000000000011011001110 = 0.053162  
 50 : 0000000000000111010000110 = 0.11346  
 51 : 000000000000010000111000101 = 0.26382  
 52 : 0000000000000100010111110 = 0.068298  
 53 : 0000000000000100010100111 = 0.067596  
 54 : 0000000000000101011000100 = 0.084106  
 55 : 00000000000001000001111010 = 0.12872  
 56 : 000000000000011001011110 = 0.049744  
 57 : 0000000000000101111100001 = 0.092804  
 58 : 000000000000011010100100 = 0.05188  
 59 : 000000000000010110111100 = 0.0448  
 60 : 000000000000011101101111 = 0.058075  
 61 : 000000000000010111001100 = 0.045288  
 62 : 0000000000000101010011000 = 0.082764  
 63 : 000000000000011000110000 = 0.04834  
 64 : 000000000000010110110101 = 0.044586  
 65 : 000000000000011001100001 = 0.049835  
 66 : 000000000000011100100001 = 0.055695  
 67 : 00000000000011000100010110 = 0.38348  
 68 : 000000000000011101111111 = 0.058563  
 69 : 000000000000010111011100 = 0.045776  
 70 : 0000000000000111111110011 = 0.1246  
 71 : 000000000000010111101000 = 0.046143  
 72 : 0000000000000101011001011 = 0.08432  
 73 : 000000000000011100000000 = 0.054688  
 74 : 000000000000011010101111 = 0.052216  
 75 : 000000000000011000100101 = 0.048004  
 76 : 000000000000011101101110 = 0.058044  
 77 : 0000000000000100100111000 = 0.072021

---





---

5 : 000000000000011100010001 = 0.055206  
6 : 0000000000000100000010101 = 0.063141  
7 : 000000000000011000000001 = 0.046906  
8 : 000000000000011111100001 = 0.061554  
9 : 000000000000010111001011 = 0.045258  
10 : 0000000000001100100101110 = 0.19672  
11 : 000000000000011000011011 = 0.047699  
12 : 000000000000011010110011 = 0.052338  
13 : 0000000000000100011111011 = 0.07016  
14 : 0000000000000111100110010 = 0.11871  
15 : 0000000000000100000101100 = 0.063843  
16 : 0000000000000110110101001 = 0.10672  
17 : 000000000000010111100100 = 0.046021  
18 : 000000000000010111100100 = 0.046021  
19 : 0000000000000101101101100 = 0.089233  
20 : 0000000000000110010110011 = 0.099213  
21 : 0000000000000101100001011 = 0.086273  
22 : 000000000000011001001010 = 0.049133  
23 : 000000000000011001101100 = 0.050171  
24 : 0000000000000100001110011 = 0.06601  
25 : 0000000000000110000101101 = 0.095123  
26 : 000000000000011100111000 = 0.056396  
27 : 000000000000011001100011 = 0.049896  
28 : 0000000000000100011001100 = 0.068726  
29 : 0000000000000110101000111 = 0.10373  
30 : 0000000000000101010010111 = 0.082733  
31 : 00000000000001000011101011 = 0.13217  
32 : 0000000000000100100111111 = 0.072235  
33 : 0000000000000100110110000 = 0.075684  
34 : 0000000000000100100010010 = 0.070862  
35 : 0000000000000100010111000 = 0.068115  
36 : 000000000000011111000000 = 0.060547  
37 : 000000000000011101011010 = 0.057434  
38 : 000000000000010111110111 = 0.0466  
39 : 000000000000011110010000 = 0.059082  
40 : 0000000000000100001110001 = 0.065948  
41 : 0000000000000100001101110 = 0.065857  
42 : 000000000000011001010001 = 0.049347  
43 : 000000000000011011111100 = 0.054565  
44 : 0000000000000100110010001 = 0.074738  
45 : 000000000000011101110111 = 0.058319  
46 : 000000000000011101011000 = 0.057373  
47 : 000000000000011001001011 = 0.049164  
48 : 000000000000011111100010 = 0.061584  
49 : 000000000000011011001110 = 0.053162  
50 : 0000000000000111010000110 = 0.11346  
51 : 0000000000010000111000111 = 0.26389  
52 : 0000000000000100010111110 = 0.068298  
53 : 0000000000000100010101000 = 0.067627  
54 : 0000000000000101011000100 = 0.084106  
55 : 00000000000001000001111011 = 0.12875  
56 : 000000000000011001011110 = 0.049744  
57 : 0000000000000101111100001 = 0.092804  
58 : 000000000000011010100100 = 0.05188

---

---

```

59 : 0000000000000010110111100 = 0.0448
60 : 0000000000000011101101111 = 0.058075
61 : 0000000000000010111001100 = 0.045288
62 : 00000000000000101010011000 = 0.082764
63 : 0000000000000011000110000 = 0.04834
64 : 0000000000000010110110101 = 0.044586
65 : 0000000000000011001100001 = 0.049835
66 : 0000000000000011100100001 = 0.055695
67 : 00000000000011000100010110 = 0.38348
68 : 0000000000000011101111111 = 0.058563
69 : 0000000000000010111011100 = 0.045776
70 : 00000000000000111111110011 = 0.1246
71 : 0000000000000010111101000 = 0.046143
72 : 00000000000000101011001011 = 0.08432
73 : 0000000000000011100000000 = 0.054688
74 : 0000000000000011010101111 = 0.052216
75 : 0000000000000011000100101 = 0.048004
76 : 0000000000000011101101110 = 0.058044
77 : 00000000000000100100111001 = 0.072052
78 : 00000000000000100011001110 = 0.068787
79 : 0000000000000010110101111 = 0.044403
80 : 00000000000000100001001101 = 0.06485
81 : 0000000000000011001011000 = 0.049561
82 : 0000000000000011001011100 = 0.049683
83 : 000000000000001000110001001 = 0.13699
84 : 000000000000001111110011010 = 0.24689
85 : 00000000000000110101110110 = 0.10516
86 : 0000000000000011000001001 = 0.04715
87 : 0000000000000011101011000 = 0.057373
88 : 0000000000000011011100101 = 0.053864
89 : 00000000000000100110100010 = 0.075256
90 : 0000000000000011010001010 = 0.051086
91 : 0000000000000010110101001 = 0.04422
92 : 0000000000000011010000000 = 0.050781
93 : 0000000000000011100111100 = 0.056519

```

-----  
Reading in values from file output.txt

```

1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-
binary std_logic characters
1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-
binary std_logic characters
1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters

```

[illegible]

---

23 : 000000000000011001101100 = 0.050171  
 24 : 0000000000000100001110011 = 0.06601  
 25 : 0000000000000110000101101 = 0.095123  
 26 : 000000000000011100111000 = 0.056396  
 27 : 000000000000011001100011 = 0.049896  
 28 : 0000000000000100011001100 = 0.068726  
 29 : 0000000000000110101000111 = 0.10373  
 30 : 0000000000000101010010111 = 0.082733  
 31 : 00000000000001000011101011 = 0.13217  
 32 : 0000000000000100100111111 = 0.072235  
 33 : 0000000000000100110110000 = 0.075684  
 34 : 0000000000000100100010010 = 0.070862  
 35 : 0000000000000100010111000 = 0.068115  
 36 : 000000000000011111000000 = 0.060547  
 37 : 000000000000011101011010 = 0.057434  
 38 : 000000000000010111110111 = 0.0466  
 39 : 000000000000011110010000 = 0.059082  
 40 : 0000000000000100001110001 = 0.065948  
 41 : 0000000000000100001101110 = 0.065857  
 42 : 000000000000011001010001 = 0.049347  
 43 : 000000000000011011111100 = 0.054565  
 44 : 0000000000000100110010001 = 0.074738  
 45 : 000000000000011101110111 = 0.058319  
 46 : 000000000000011101011000 = 0.057373  
 47 : 000000000000011001001011 = 0.049164  
 48 : 000000000000011111100010 = 0.061584  
 49 : 000000000000011011001110 = 0.053162  
 50 : 0000000000000111010000110 = 0.11346  
 51 : 000000000000010000111000111 = 0.26389  
 52 : 0000000000000100010111110 = 0.068298  
 53 : 0000000000000100010101000 = 0.067627  
 54 : 0000000000000101011000100 = 0.084106  
 55 : 00000000000001000001111011 = 0.12875  
 56 : 000000000000011001011110 = 0.049744  
 57 : 0000000000000101111100001 = 0.092804  
 58 : 000000000000011010100100 = 0.05188  
 59 : 000000000000010110111100 = 0.0448  
 60 : 000000000000011101101111 = 0.058075  
 61 : 000000000000010111001100 = 0.045288  
 62 : 0000000000000101010011000 = 0.082764  
 63 : 000000000000011000110000 = 0.04834  
 64 : 000000000000010110110101 = 0.044586  
 65 : 000000000000011001100001 = 0.049835  
 66 : 000000000000011100100001 = 0.055695  
 67 : 00000000000011000100010110 = 0.38348  
 68 : 000000000000011101111111 = 0.058563  
 69 : 000000000000010111011100 = 0.045776  
 70 : 0000000000000111111110011 = 0.1246  
 71 : 000000000000010111101000 = 0.046143  
 72 : 0000000000000101011001011 = 0.08432  
 73 : 000000000000011100000000 = 0.054688  
 74 : 000000000000011010101111 = 0.052216  
 75 : 000000000000011000100101 = 0.048004  
 76 : 000000000000011101101110 = 0.058044

---



---

```

1 : XXXXXXXXXXXXXXXXXXXXXXXX ~~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXX ~~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXX ~~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXX ~~ Ignoring line since it contains non-
binary std_logic characters
1 : 00000000010000000000000000 = 1
2 : 00000000010000000000000000 = 0.5
3 : 000000000010101010101010 = 0.33331
4 : 000000000001010001110111 = 0.15988
5 : 000000000000011100010001 = 0.055206
6 : 0000000000000100000010101 = 0.063141
7 : 000000000000011000000001 = 0.046906
8 : 000000000000011111100001 = 0.061554
9 : 000000000000010111001011 = 0.045258
10 : 0000000000001100100101110 = 0.19672
11 : 000000000000011000011011 = 0.047699
12 : 000000000000011010110011 = 0.052338
13 : 0000000000000100011111011 = 0.07016
14 : 0000000000000111100110010 = 0.11871
15 : 0000000000000100000101100 = 0.063843
16 : 0000000000000110110101001 = 0.10672
17 : 000000000000010111100100 = 0.046021
18 : 000000000000010111100100 = 0.046021
19 : 0000000000000101101101100 = 0.089233
20 : 0000000000000110010110011 = 0.099213
21 : 0000000000000101100001011 = 0.086273
22 : 000000000000011001001010 = 0.049133
23 : 000000000000011001101100 = 0.050171
24 : 0000000000000100001110011 = 0.06601
25 : 0000000000000110000101101 = 0.095123
26 : 000000000000011100111000 = 0.056396
27 : 000000000000011001100011 = 0.049896
28 : 0000000000000100011001100 = 0.068726
29 : 0000000000000110101000111 = 0.10373
30 : 0000000000000101010010111 = 0.082733
31 : 00000000000001000011101011 = 0.13217
32 : 0000000000000100100111111 = 0.072235
33 : 0000000000000100110110000 = 0.075684
34 : 0000000000000100100010010 = 0.070862
35 : 0000000000000100010111000 = 0.068115
36 : 000000000000011111000000 = 0.060547
37 : 000000000000011101011010 = 0.057434
38 : 000000000000010111110111 = 0.0466
39 : 000000000000011110010000 = 0.059082
40 : 0000000000000100001110001 = 0.065948
41 : 0000000000000100001101110 = 0.065857
42 : 000000000000011001010001 = 0.049347
43 : 000000000000011011111100 = 0.054565
44 : 0000000000000100110010001 = 0.074738
45 : 000000000000011101110111 = 0.058319
46 : 000000000000011101011000 = 0.057373

```

---

---

```

47 : 0000000000000000000011001001011 = 0.049164
48 : 0000000000000000000011111100010 = 0.061584
49 : 0000000000000000000011011001110 = 0.053162
50 : 00000000000000000000111010000110 = 0.11346
51 : 0000000000000000000010000111000111 = 0.26389
52 : 00000000000000000000100010111110 = 0.068298
53 : 00000000000000000000100010101000 = 0.067627
54 : 00000000000000000000101011000100 = 0.084106
55 : 000000000000000000001000001111011 = 0.12875
56 : 0000000000000000000011001011110 = 0.049744
57 : 00000000000000000000101111100001 = 0.092804
58 : 0000000000000000000011010100100 = 0.05188
59 : 0000000000000000000010110111100 = 0.0448
60 : 0000000000000000000011101101111 = 0.058075
61 : 0000000000000000000010111001100 = 0.045288
62 : 00000000000000000000101010011000 = 0.082764
63 : 0000000000000000000011000110000 = 0.04834
64 : 0000000000000000000010110110101 = 0.044586
65 : 0000000000000000000011001100001 = 0.049835
66 : 0000000000000000000011100100001 = 0.055695
67 : 0000000000000000000011000100010110 = 0.38348
68 : 0000000000000000000011101111111 = 0.058563
69 : 0000000000000000000010111011100 = 0.045776
70 : 00000000000000000000111111110011 = 0.1246
71 : 0000000000000000000010111101000 = 0.046143
72 : 00000000000000000000101011001011 = 0.08432

```

-----  
Reading in values from file output.txt

```

1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-
binary std_logic characters
1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-
binary std_logic characters
1 : UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters
1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX ~ Ignoring line since it contains non-
binary std_logic characters

```





---

13 : 000000000000100011111011 = 0.07016  
14 : 000000000000111100110010 = 0.11871  
15 : 000000000000100000101100 = 0.063843  
16 : 000000000000110110101001 = 0.10672  
17 : 00000000000010111100100 = 0.046021  
18 : 00000000000010111100100 = 0.046021  
19 : 000000000000101101101100 = 0.089233  
20 : 000000000000110010110011 = 0.099213  
21 : 000000000000101100001011 = 0.086273  
22 : 00000000000011001001010 = 0.049133  
23 : 00000000000011001101100 = 0.050171  
24 : 000000000000100001110011 = 0.06601  
25 : 000000000000110000101101 = 0.095123  
26 : 00000000000011100111000 = 0.056396  
27 : 00000000000011001100011 = 0.049896  
28 : 000000000000100011001100 = 0.068726  
29 : 000000000000110101000111 = 0.10373  
30 : 000000000000101010010111 = 0.082733  
31 : 0000000000001000011101011 = 0.13217  
32 : 000000000000100100111111 = 0.072235  
33 : 000000000000100110110000 = 0.075684  
34 : 000000000000100100010010 = 0.070862  
35 : 000000000000100010111000 = 0.068115  
36 : 00000000000011111000000 = 0.060547  
37 : 00000000000011101011010 = 0.057434  
38 : 00000000000010111110111 = 0.0466  
39 : 00000000000011110010000 = 0.059082  
40 : 000000000000100001110001 = 0.065948  
41 : 000000000000100001101110 = 0.065857  
42 : 00000000000011001010001 = 0.049347  
43 : 00000000000011011111100 = 0.054565  
44 : 000000000000100110010001 = 0.074738  
45 : 00000000000011101110111 = 0.058319  
46 : 00000000000011101011000 = 0.057373  
47 : 00000000000011001001011 = 0.049164  
48 : 00000000000011111100010 = 0.061584  
49 : 00000000000011011001110 = 0.053162  
50 : 000000000000111010000110 = 0.11346  
51 : 0000000000010000111000111 = 0.26389  
52 : 000000000000100010111110 = 0.068298  
53 : 000000000000100010101000 = 0.067627  
54 : 000000000000101011000100 = 0.084106  
55 : 0000000000001000001111011 = 0.12875  
56 : 00000000000011001011110 = 0.049744  
57 : 000000000000101111100001 = 0.092804  
58 : 00000000000011010100100 = 0.05188  
59 : 00000000000010110111100 = 0.0448  
60 : 00000000000011101101111 = 0.058075  
61 : 00000000000010111001100 = 0.045288  
62 : 000000000000101010011000 = 0.082764  
63 : 00000000000011000110000 = 0.04834  
64 : 00000000000010110110101 = 0.044586  
65 : 00000000000011001100001 = 0.049835  
66 : 00000000000011100100001 = 0.055695

---

---

67 : 000000000011000100010110 = 0.38348

Error perctange

Matlab actual data

ans =

Columns 1 through 7

1.0000	0.5000	0.3359	0.1563	0.0547	0.0625	0.0469
--------	--------	--------	--------	--------	--------	--------

Columns 8 through 14

0.0625	0.0469	0.1953	0.0469	0.0547	0.0703	0.1172
--------	--------	--------	--------	--------	--------	--------

Columns 15 through 21

0.0625	0.1094	0.0469	0.0469	0.0859	0.1016	0.0859
--------	--------	--------	--------	--------	--------	--------

Columns 22 through 28

0.0469	0.0469	0.0625	0.0938	0.0547	0.0469	0.0703
--------	--------	--------	--------	--------	--------	--------

Columns 29 through 35

0.1016	0.0859	0.1328	0.0703	0.0781	0.0703	0.0703
--------	--------	--------	--------	--------	--------	--------

Columns 36 through 42

0.0625	0.0547	0.0469	0.0625	0.0625	0.0625	0.0469
--------	--------	--------	--------	--------	--------	--------

Columns 43 through 49

0.0547	0.0781	0.0547	0.0547	0.0469	0.0625	0.0547
--------	--------	--------	--------	--------	--------	--------

Columns 50 through 56

0.1172	0.2656	0.0703	0.0703	0.0859	0.1250	0.0469
--------	--------	--------	--------	--------	--------	--------

Columns 57 through 63

0.0938	0.0547	0.0469	0.0547	0.0469	0.0859	0.0469
--------	--------	--------	--------	--------	--------	--------

Columns 64 through 70

0.0469	0.0469	0.0547	0.3828	0.0547	0.0469	0.1250
--------	--------	--------	--------	--------	--------	--------

Columns 71 through 77

0.0469	0.0859	0.0547	0.0547	0.0469	0.0547	0.0703
--------	--------	--------	--------	--------	--------	--------

Columns 78 through 84

0.0703	0.0469	0.0625	0.0469	0.0469	0.1406	0.2500
--------	--------	--------	--------	--------	--------	--------

---

Columns 85 through 91

0.1016	0.0469	0.0547	0.0547	0.0781	0.0547	0.0469
--------	--------	--------	--------	--------	--------	--------

Columns 92 through 98

0.0547	0.0547	0.0547	0.1875	0.0625	0.0469	0.0859
--------	--------	--------	--------	--------	--------	--------

Columns 99 through 100

0.0547	0.0625
--------	--------

-----  
Y0

ans =

Columns 1 through 7

1.0000	0.5000	0.3306	0.1595	0.0556	0.0632	0.0468
--------	--------	--------	--------	--------	--------	--------

Columns 8 through 14

0.0618	0.0456	0.1955	0.0477	0.0522	0.0697	0.1190
--------	--------	--------	--------	--------	--------	--------

Columns 15 through 21

0.0631	0.1071	0.0459	0.0459	0.0900	0.0992	0.0857
--------	--------	--------	--------	--------	--------	--------

Columns 22 through 28

0.0489	0.0500	0.0652	0.0960	0.0563	0.0498	0.0681
--------	--------	--------	--------	--------	--------	--------

Columns 29 through 35

0.1034	0.0822	0.1326	0.0719	0.0758	0.0704	0.0681
--------	--------	--------	--------	--------	--------	--------

Columns 36 through 42

0.0608	0.0572	0.0465	0.0589	0.0653	0.0655	0.0493
--------	--------	--------	--------	--------	--------	--------

Columns 43 through 49

0.0550	0.0748	0.0588	0.0573	0.0489	0.0618	0.0532
--------	--------	--------	--------	--------	--------	--------

Columns 50 through 56

0.1137	0.2613	0.0678	0.0668	0.0841	0.1294	0.0500
--------	--------	--------	--------	--------	--------	--------

Columns 57 through 63

0.0921	0.0517	0.0446	0.0582	0.0455	0.0830	0.0481
--------	--------	--------	--------	--------	--------	--------

Columns 64 through 70

---

0.0450	0.0499	0.0559	0.3851	0.0589	0.0455	0.1247
--------	--------	--------	--------	--------	--------	--------

Columns 71 through 77

0.0465	0.0837	0.0548	0.0524	0.0479	0.0583	0.0713
--------	--------	--------	--------	--------	--------	--------

Columns 78 through 84

0.0680	0.0444	0.0650	0.0497	0.0502	0.1372	0.2483
--------	--------	--------	--------	--------	--------	--------

Columns 85 through 91

0.1048	0.0471	0.0573	0.0539	0.0748	0.0511	0.0448
--------	--------	--------	--------	--------	--------	--------

Column 92

0.0510
--------

Possible Error

ans =

Columns 1 through 7

0	0	1.5625	0	0	0	0.3906
---	---	--------	---	---	---	--------

Columns 8 through 14

1.1719	2.7344	0	0	4.6875	0.7813	0
--------	--------	---	---	--------	--------	---

Columns 15 through 21

0	1.9531	2.3438	2.3438	0	2.3438	0.3906
---	--------	--------	--------	---	--------	--------

Columns 22 through 28

0	0	0	0	0	0	3.1250
---	---	---	---	---	---	--------

Columns 29 through 35

0	4.2969	0	0	3.1250	0	3.1250
---	--------	---	---	--------	---	--------

Columns 36 through 42

2.7344	0	0.7813	5.8594	0	0	0
--------	---	--------	--------	---	---	---

Columns 43 through 49

0	4.2969	0	0	0	1.1719	2.7344
---	--------	---	---	---	--------	--------

Columns 50 through 56

3.1250	1.5625	3.5156	5.0781	1.9531	0	0
--------	--------	--------	--------	--------	---	---

---

---

Columns 57 through 63

1.9531	5.4688	4.6875	0	3.1250	3.5156	0
--------	--------	--------	---	--------	--------	---

Columns 64 through 66

3.9063	0	0
--------	---	---

-----

Iteration 1

ans =

Columns 1 through 7

1.0000	0.5000	0.3333	0.1599	0.0552	0.0631	0.0469
--------	--------	--------	--------	--------	--------	--------

Columns 8 through 14

0.0616	0.0453	0.1967	0.0477	0.0523	0.0702	0.1187
--------	--------	--------	--------	--------	--------	--------

Columns 15 through 21

0.0638	0.1067	0.0460	0.0460	0.0892	0.0992	0.0862
--------	--------	--------	--------	--------	--------	--------

Columns 22 through 28

0.0491	0.0502	0.0660	0.0951	0.0564	0.0499	0.0687
--------	--------	--------	--------	--------	--------	--------

Columns 29 through 35

0.1037	0.0827	0.1322	0.0722	0.0757	0.0709	0.0681
--------	--------	--------	--------	--------	--------	--------

Columns 36 through 42

0.0605	0.0574	0.0466	0.0591	0.0659	0.0659	0.0493
--------	--------	--------	--------	--------	--------	--------

Columns 43 through 49

0.0546	0.0747	0.0583	0.0574	0.0492	0.0616	0.0532
--------	--------	--------	--------	--------	--------	--------

Columns 50 through 56

0.1135	0.2638	0.0683	0.0676	0.0841	0.1287	0.0497
--------	--------	--------	--------	--------	--------	--------

Columns 57 through 63

0.0928	0.0519	0.0448	0.0581	0.0453	0.0828	0.0483
--------	--------	--------	--------	--------	--------	--------

Columns 64 through 70

0.0446	0.0498	0.0557	0.3835	0.0586	0.0458	0.1246
--------	--------	--------	--------	--------	--------	--------

---

---

Columns 71 through 77

0.0461	0.0843	0.0547	0.0522	0.0480	0.0580	0.0720
--------	--------	--------	--------	--------	--------	--------

Columns 78 through 84

0.0688	0.0444	0.0648	0.0496	0.0497	0.1370	0.2469
--------	--------	--------	--------	--------	--------	--------

Columns 85 through 87

0.1051	0.0471	0.0574
--------	--------	--------

Error Percentage

ans =

Columns 1 through 7

0	0	0.7813	0	0	0	0
---	---	--------	---	---	---	---

Columns 8 through 14

1.5625	3.5156	0	0	4.2969	0.3906	0
--------	--------	---	---	--------	--------	---

Columns 15 through 21

0	2.3438	1.9531	1.9531	0	2.3438	0
---	--------	--------	--------	---	--------	---

Columns 22 through 28

0	0	0	0	0	0	2.3438
---	---	---	---	---	---	--------

Columns 29 through 35

0	3.9063	0.3906	0	3.1250	0	3.1250
---	--------	--------	---	--------	---	--------

Columns 36 through 42

3.1250	0	0.7813	5.4688	0	0	0
--------	---	--------	--------	---	---	---

Columns 43 through 49

0.3906	4.2969	0	0	0	1.5625	2.7344
--------	--------	---	---	---	--------	--------

Columns 50 through 56

3.1250	0.7813	2.7344	3.9063	1.9531	0	0
--------	--------	--------	--------	--------	---	---

Columns 57 through 63

1.1719	5.0781	4.2969	0	3.5156	3.5156	0
--------	--------	--------	---	--------	--------	---

Columns 64 through 66

---

---

5.0781            0            0

-----  
Iteration 2

ans =

Columns 1 through 7

1.0000    0.5000    0.3333    0.1599    0.0552    0.0631    0.0469

Columns 8 through 14

0.0616    0.0453    0.1967    0.0477    0.0523    0.0702    0.1187

Columns 15 through 21

0.0638    0.1067    0.0460    0.0460    0.0892    0.0992    0.0863

Columns 22 through 28

0.0491    0.0502    0.0660    0.0951    0.0564    0.0499    0.0687

Columns 29 through 35

0.1037    0.0827    0.1322    0.0722    0.0757    0.0709    0.0681

Columns 36 through 42

0.0605    0.0574    0.0466    0.0591    0.0659    0.0659    0.0493

Columns 43 through 49

0.0546    0.0747    0.0583    0.0574    0.0492    0.0616    0.0532

Columns 50 through 56

0.1135    0.2639    0.0683    0.0676    0.0841    0.1288    0.0497

Columns 57 through 63

0.0928    0.0519    0.0448    0.0581    0.0453    0.0828    0.0483

Columns 64 through 70

0.0446    0.0498    0.0557    0.3835    0.0586    0.0458    0.1246

Columns 71 through 77

0.0461    0.0843    0.0547    0.0522    0.0480    0.0580    0.0721

Columns 78 through 84

0.0688    0.0444    0.0648    0.0496    0.0497    0.1370    0.2469



---

Columns 85 through 91

0.1052	0.0471	0.0574	0.0539	0.0753	0.0511	0.0442
--------	--------	--------	--------	--------	--------	--------

Columns 92 through 93

0.0508	0.0565
--------	--------

Possible Error

ans =

Columns 1 through 7

0	0	0.7813	0	0	0	0
---	---	--------	---	---	---	---

Columns 8 through 14

1.5625	3.5156	0	0	4.2969	0.3906	0
--------	--------	---	---	--------	--------	---

Columns 15 through 21

0	2.3438	1.9531	1.9531	0	2.3438	0
---	--------	--------	--------	---	--------	---

Columns 22 through 28

0	0	0	0	0	0	2.3438
---	---	---	---	---	---	--------

Columns 29 through 35

0	3.9063	0.3906	0	3.1250	0	3.1250
---	--------	--------	---	--------	---	--------

Columns 36 through 42

3.1250	0	0.7813	5.4688	0	0	0
--------	---	--------	--------	---	---	---

Columns 43 through 49

0.3906	4.2969	0	0	0	1.5625	2.7344
--------	--------	---	---	---	--------	--------

Columns 50 through 56

3.1250	0.7813	2.7344	3.9063	1.9531	0	0
--------	--------	--------	--------	--------	---	---

Columns 57 through 63

1.1719	5.0781	4.2969	0	3.5156	3.5156	0
--------	--------	--------	---	--------	--------	---

Columns 64 through 66

5.0781	0	0
--------	---	---

-----

---

Iteration 3

ans =

Columns 1 through 7

1.0000	0.5000	0.3333	0.1599	0.0552	0.0631	0.0469
--------	--------	--------	--------	--------	--------	--------

Columns 8 through 14

0.0616	0.0453	0.1967	0.0477	0.0523	0.0702	0.1187
--------	--------	--------	--------	--------	--------	--------

Columns 15 through 21

0.0638	0.1067	0.0460	0.0460	0.0892	0.0992	0.0863
--------	--------	--------	--------	--------	--------	--------

Columns 22 through 28

0.0491	0.0502	0.0660	0.0951	0.0564	0.0499	0.0687
--------	--------	--------	--------	--------	--------	--------

Columns 29 through 35

0.1037	0.0827	0.1322	0.0722	0.0757	0.0709	0.0681
--------	--------	--------	--------	--------	--------	--------

Columns 36 through 42

0.0605	0.0574	0.0466	0.0591	0.0659	0.0659	0.0493
--------	--------	--------	--------	--------	--------	--------

Columns 43 through 49

0.0546	0.0747	0.0583	0.0574	0.0492	0.0616	0.0532
--------	--------	--------	--------	--------	--------	--------

Columns 50 through 56

0.1135	0.2639	0.0683	0.0676	0.0841	0.1288	0.0497
--------	--------	--------	--------	--------	--------	--------

Columns 57 through 63

0.0928	0.0519	0.0448	0.0581	0.0453	0.0828	0.0483
--------	--------	--------	--------	--------	--------	--------

Columns 64 through 70

0.0446	0.0498	0.0557	0.3835	0.0586	0.0458	0.1246
--------	--------	--------	--------	--------	--------	--------

Columns 71 through 77

0.0461	0.0843	0.0547	0.0522	0.0480	0.0580	0.0721
--------	--------	--------	--------	--------	--------	--------

Possible Error

ans =

Columns 1 through 7

---

0	0	0.7813	0	0	0	0
Columns 8 through 14						
1.5625	3.5156	0	0	4.2969	0.3906	0
Columns 15 through 21						
0	2.3438	1.9531	1.9531	0	2.3438	0
Columns 22 through 28						
0	0	0	0	0	0	2.3438
Columns 29 through 35						
0	3.9063	0.3906	0	3.1250	0	3.1250
Columns 36 through 42						
3.1250	0	0.7813	5.4688	0	0	0
Columns 43 through 49						
0.3906	4.2969	0	0	0	1.5625	2.7344
Columns 50 through 56						
3.1250	0.7813	2.7344	3.9063	1.9531	0	0
Columns 57 through 63						
1.1719	5.0781	4.2969	0	3.5156	3.5156	0
Columns 64 through 66						
5.0781	0	0				
-----						
Iteration 4						
ans =						
Columns 1 through 7						
1.0000	0.5000	0.3333	0.1599	0.0552	0.0631	0.0469
Columns 8 through 14						
0.0616	0.0453	0.1967	0.0477	0.0523	0.0702	0.1187
Columns 15 through 21						
0.0638	0.1067	0.0460	0.0460	0.0892	0.0992	0.0863

---

---

Columns 22 through 28

0.0491	0.0502	0.0660	0.0951	0.0564	0.0499	0.0687
--------	--------	--------	--------	--------	--------	--------

Columns 29 through 35

0.1037	0.0827	0.1322	0.0722	0.0757	0.0709	0.0681
--------	--------	--------	--------	--------	--------	--------

Columns 36 through 42

0.0605	0.0574	0.0466	0.0591	0.0659	0.0659	0.0493
--------	--------	--------	--------	--------	--------	--------

Columns 43 through 49

0.0546	0.0747	0.0583	0.0574	0.0492	0.0616	0.0532
--------	--------	--------	--------	--------	--------	--------

Columns 50 through 56

0.1135	0.2639	0.0683	0.0676	0.0841	0.1288	0.0497
--------	--------	--------	--------	--------	--------	--------

Columns 57 through 63

0.0928	0.0519	0.0448	0.0581	0.0453	0.0828	0.0483
--------	--------	--------	--------	--------	--------	--------

Columns 64 through 70

0.0446	0.0498	0.0557	0.3835	0.0586	0.0458	0.1246
--------	--------	--------	--------	--------	--------	--------

Columns 71 through 72

0.0461	0.0843
--------	--------

Possible Error

ans =

Columns 1 through 7

0	0	0.7813	0	0	0	0
---	---	--------	---	---	---	---

Columns 8 through 14

1.5625	3.5156	0	0	4.2969	0.3906	0
--------	--------	---	---	--------	--------	---

Columns 15 through 21

0	2.3438	1.9531	1.9531	0	2.3438	0
---	--------	--------	--------	---	--------	---

Columns 22 through 28

0	0	0	0	0	0	2.3438
---	---	---	---	---	---	--------

Columns 29 through 35

---

---

0	3.9063	0.3906	0	3.1250	0	3.1250
Columns 36 through 42						
3.1250	0	0.7813	5.4688	0	0	0
Columns 43 through 49						
0.3906	4.2969	0	0	0	1.5625	2.7344
Columns 50 through 56						
3.1250	0.7813	2.7344	3.9063	1.9531	0	0
Columns 57 through 63						
1.1719	5.0781	4.2969	0	3.5156	3.5156	0
Columns 64 through 66						
5.0781	0	0				

-----  
Iteration 5

ans =

Columns 1 through 7						
1.0000	0.5000	0.3333	0.1599	0.0552	0.0631	0.0469
Columns 8 through 14						
0.0616	0.0453	0.1967	0.0477	0.0523	0.0702	0.1187
Columns 15 through 21						
0.0638	0.1067	0.0460	0.0460	0.0892	0.0992	0.0863
Columns 22 through 28						
0.0491	0.0502	0.0660	0.0951	0.0564	0.0499	0.0687
Columns 29 through 35						
0.1037	0.0827	0.1322	0.0722	0.0757	0.0709	0.0681
Columns 36 through 42						
0.0605	0.0574	0.0466	0.0591	0.0659	0.0659	0.0493
Columns 43 through 49						

---

---

0.0546	0.0747	0.0583	0.0574	0.0492	0.0616	0.0532
Columns 50 through 56						
0.1135	0.2639	0.0683	0.0676	0.0841	0.1288	0.0497
Columns 57 through 63						
0.0928	0.0519	0.0448	0.0581	0.0453	0.0828	0.0483
Columns 64 through 67						
0.0446	0.0498	0.0557	0.3835			

Possible Error

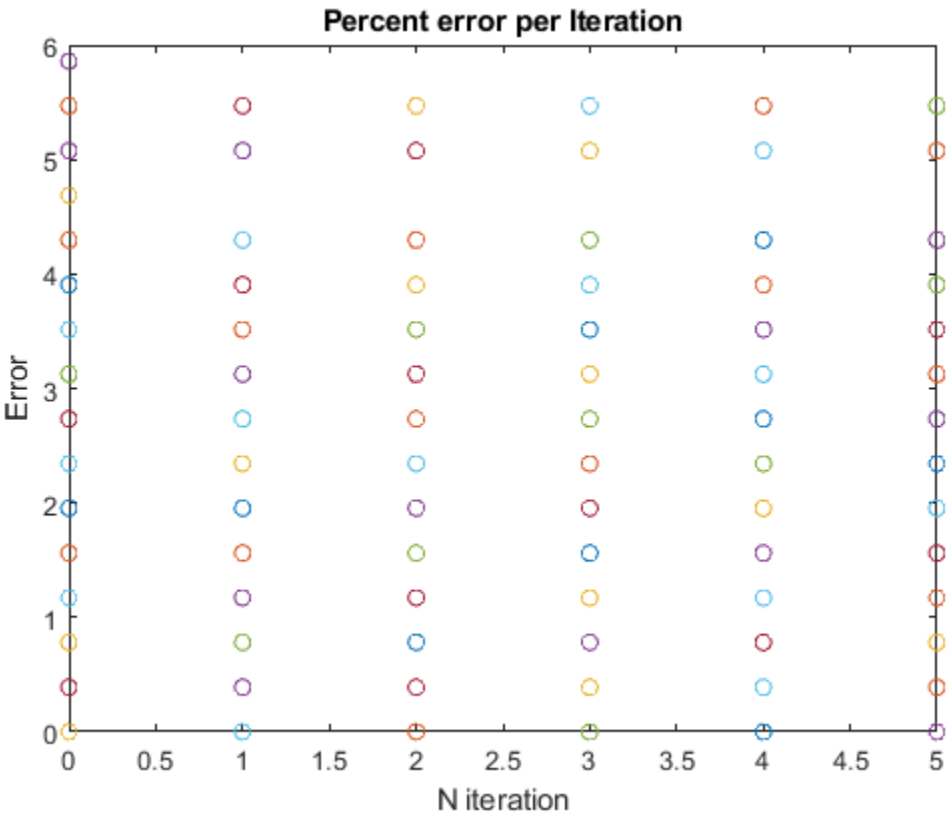
ans =

Columns 1 through 7						
0	0	0.7813	0	0	0	0
Columns 8 through 14						
1.5625	3.5156	0	0	4.2969	0.3906	0
Columns 15 through 21						
0	2.3438	1.9531	1.9531	0	2.3438	0
Columns 22 through 28						
0	0	0	0	0	0	2.3438
Columns 29 through 35						
0	3.9063	0.3906	0	3.1250	0	3.1250
Columns 36 through 42						
3.1250	0	0.7813	5.4688	0	0	0
Columns 43 through 49						
0.3906	4.2969	0	0	0	1.5625	2.7344
Columns 50 through 56						
3.1250	0.7813	2.7344	3.9063	1.9531	0	0
Columns 57 through 63						
1.1719	5.0781	4.2969	0	3.5156	3.5156	0

---

Columns 64 through 66

5.0781            0            0



Published with MATLAB® R2019a