MTCNN PLUS MOBILEFACENET RECOGNITION
TEST RESULTS ON FACE TOUGH IMAGE WHICH HAS 41
VARYING BATCH SIZES

BATCH SIZE	MODEL INITIALISATION TIME (Sec.)	PRE-PROCESSING TIME (Sec.)	MTCNN DETECTION TIME (Sec.)
1	0.414	0.008	1.798
2	0.367	0.008	1.826
3	0.374	0.008	1.841
4	0.396	0.008	1.841
5	0.375	0.008	1.861
6	0.377	0.008	1.837
7	0.421	0.008	1.797
8	0.372	0.008	1.836
9	0.373	0.008	1.83
10	0.418	0.008	1.8
11	0.374	0.008	1.828
12	0.371	0.008	1.842
13	0.372	0.009	1.831
14	0.38	0.009	1.911
15	0.377	0.007	1.821
16	0.373	0.008	1.85
20	0.378	0.008	1.803
24	0.38	0.009	1.748
28	0.376	0.008	1.845
32	0.371	0.008	1.835
36	0.375	0.008	1.851
40	0.364	0.008	1.814

IMAGES

RECOGNITION TIME (Sec.)
1.068
0.901
0.89
0.937
0.963
0.92
0.926
1.039
0.992
1.073
0.957
1.023
1.083
0.905
0.936
0.97
1.168
0.869
0.956
1.03
1.128
1.208

BATCH SIZE	MTCNN DETECTION TIME (Sec.)
1	1.798
2	1.826
3	1.841
4	1.841
5	1.861
6	1.837
7	1.797
8	1.836
9	1.83
10	1.8
11	1.828
12	1.842
13	1.831
14	1.911
15	1.821
16	1.85
20	1.803
24	1.748
28	1.845
32	1.835
36	1.851
40	1.814

BATCH SIZE	PRE-PROCESSING TIME (Sec.)
1	0.008
2	0.008
3	0.008
4	0.008
5	0.008
6	0.008
7	0.008
8	0.008
9	0.008
10	0.008
11	0.008
12	0.008
13	0.009
14	0.009
15	0.007
16	0.008
20	0.008
24	0.009
28	0.008
32	0.008
36	0.008
40	0.008

BATCH SIZE	RECOGNITION TIME (Sec.)
1	1.068
2	0.901
3	0.89
4	0.937
5	0.963
6	0.92
7	0.926
8	1.039
9	0.992
10	1.073
11	0.957
12	1.023

BATCH SIZE VS MTCNN DETE
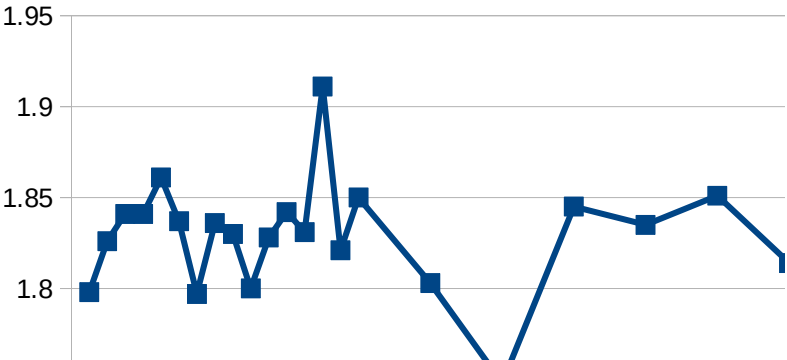
13	1.083
14	0.905
15	0.936
16	0.97
20	1.168
24	0.869
28	0.956
32	1.03
36	1.128
40	1.208

Sheet2
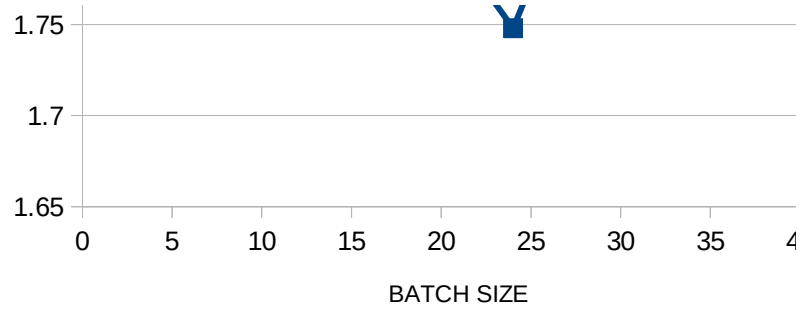
BATCH SIZE VS RECOGNITION TIME
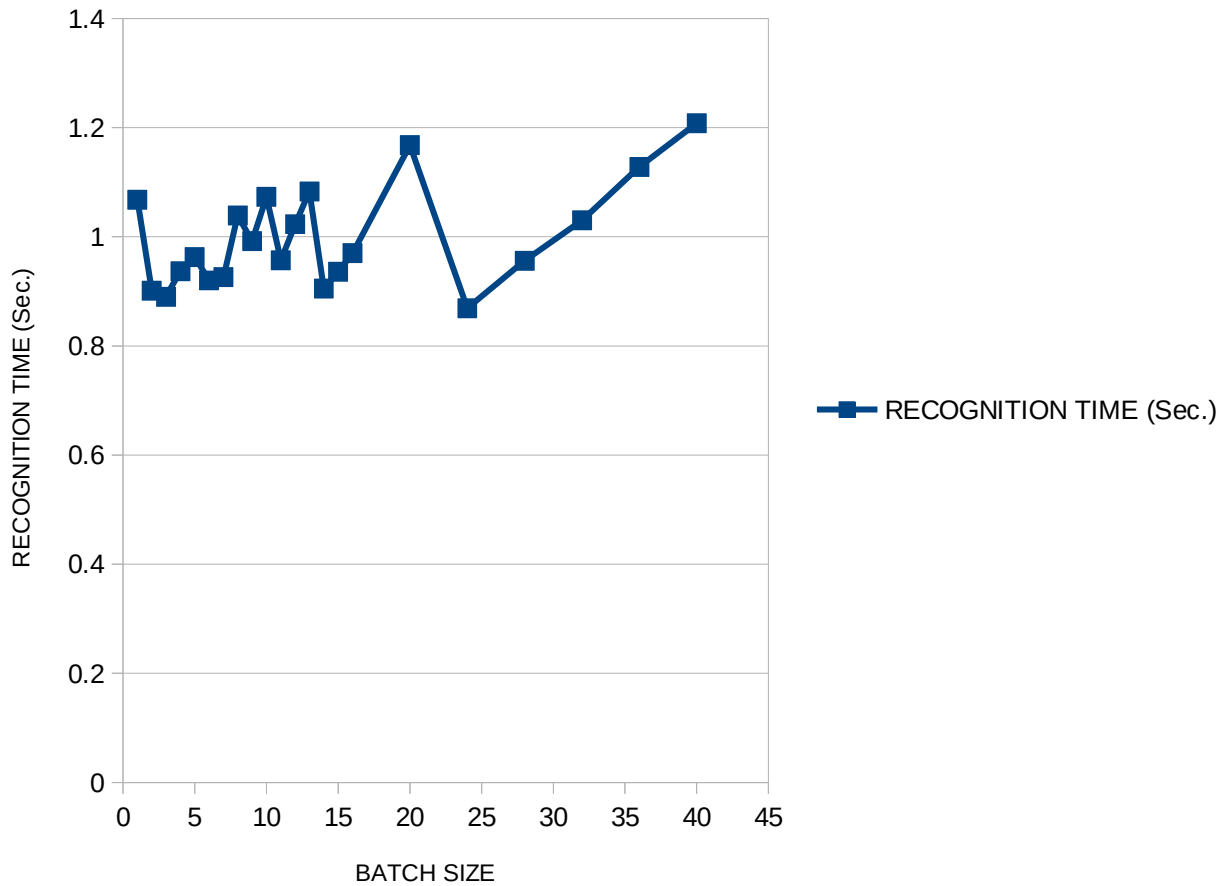
BATCH SIZE	MODEL INIT TIME (Sec.)
1	0.414
2	0.367
3	0.374
4	0.396
5	0.375
6	0.377
7	0.421
8	0.372
9	0.373
10	0.418
11	0.374
12	0.371
13	0.372
14	0.38
15	0.377
16	0.373
20	0.378
24	0.38
28	0.376
32	0.371
36	0.375
40	0.364

=CTION TIME

BATCH SIZE Vs PRE-PROC

CESSING TIME(Sec.)

MTCNN DETECTION TIME

40   45

Sheet2
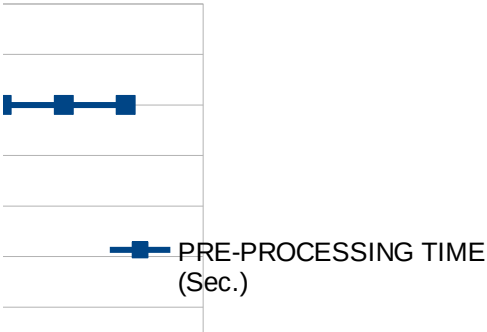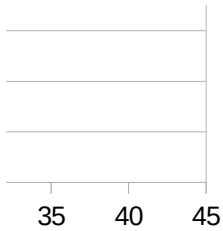
PRE-PRO|

0.003
0.002
0.001
0

0   5   10   15   20   25   30
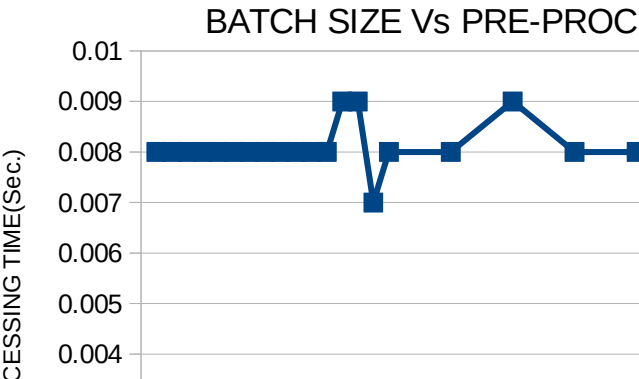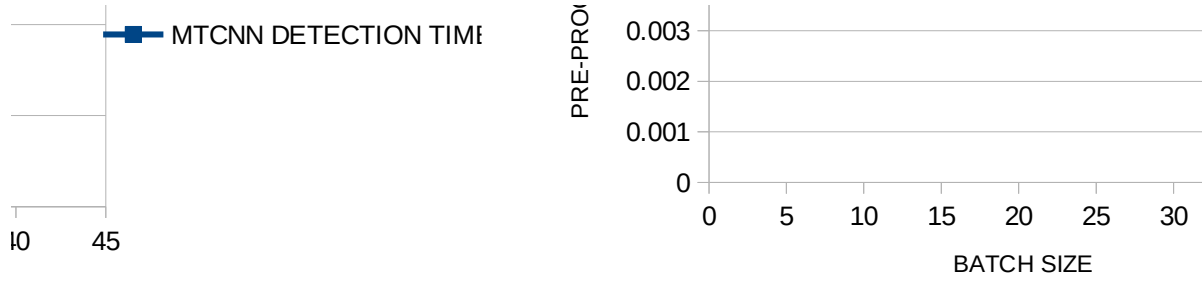
BATCH SIZE

BATCH SIZE Vs MODEL INIT TIME

MODEL INIT TIME (Sec.)

0.43
0.42
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33

0   5   10   15   20   25   30   35   40   45

BATCH SIZE

MODEL INIT

ESISNG TIME

PRE-PROCESSING TIME
(Sec.)

35 40 45

TIME (Sec.)