DL Analysis Report

Summary

Header	Data
Date	2024-08-28 13:56:45
Model Name	TinyCNN_resample_full_v3
Training Dataset	data_loader_01_KFall

Dataset Information

No. of Subjects: 32 (Training: 26, Test: 6)
No. of Motions: 36

No. of Total files:
- Training
  - Falls: 1902
  - ADLs: 2222
- Test
  - Falls: 444
  - ADLs: 507

Motion Descriptions

No	Activity	Trials
1	Stand	1 trial (30s)
2	Stand, slowly bend at knees (full squat), tie shoe lace, and get up	1 trial (5 times)
3	Pick up an object from the floor	1 trial (5 times)
4	Gently jump (try to reach an object)	1 trial (5 times)
5	Stand, sit to the ground, wait a moment, and get up with normal speed	1 trial (5 times)
6	Walk normally with turn (4m)	1 trial (5 times)
7	Walk quickly with turn (4m)	1 trial (5 times)
8	Jog normally with turn (4m)	1 trial (5 times)
9	Jog quickly with turn (4m)	1 trial (5 times)
10	Stumble while walking	1 trial (5 times)
11	Sit on a chair	1 trial (30s)
12	Sit on the sofa (back is inclined to backward)	1 trial (30s)
13	Sit down to a chair normally, and get up from a chair normally	1 trial (5 times)
14	Sit down to a chair quickly, and get up from a chair quickly	1 trial (5 times)

15	Sit a moment, trying to get up, and collapse into a chair	1 trial (5 times)
16	Stand, sit to the sofa, and inclined the back to the support, and get up with normal speed	1 trial (5 times)
17	Lie on the bed	1 trial (30s)
18	Sit a moment, and lie down to the bed normally, wait a moment, and get up normally	1 trial (5 times)
19	Sit a moment, and lie down to the bed quickly, wait a moment, and get up quickly	1 trial (5 times)
20	Forward fall when trying to sit down	5 trials
21	Backward fall when trying to sit down	5 trials
22	lateral fall when trying to sit down	5 trials
23	Forward fall when trying to get up	5 trials
24	lateral fall when trying to get up	5 trials
25	Forward fall while sitting, caused by fainting	5 trials
26	lateral fall while sitting, caused by fainting	5 trials
27	Backward fall while sitting, caused by fainting	5 trials
28	Vertical(forward) fall while walking caused by fainting	5 trials
29	Fall while walking, with use of hands in a table to dampen fall, caused by fainting	5 trials
30	Forward fall while walking caused by a trip	5 trials
31	Forward fall while jogging caused by a trip	5 trials
32	Forward fall while walking caused by a slip	5 trials
33	Forward lateral fall while walking caused by a slip	5 trials
34	Backward fall while walking caused by a slip	5 trials
35	Walk upstairs and downstairs normally (5 steps)	1 trial (5 times)
36	Walk upstairs and downstairs quickly (5 steps)	1 trial (5 times)

Training Report

Settings

Trainer

{ "name": "trainer02",
"num_epochs": 500,
"batch_size": 512,
"learning_rate": 0.0005,
"fl_alpha": 0.8,
"num_iter_per_epoch": 60,
"validation_split": 0.2,
"verbose_epochs": 1,
"save_pickle": true,
"knowledge_distillation": true }

Callbacks

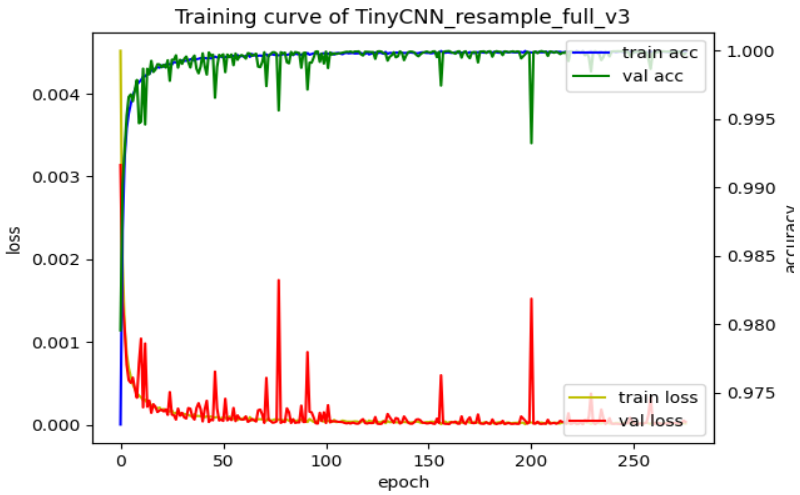
{ "checkpoint_monitor": "val_loss",
"checkpoint_mode": "min",
"checkpoint_save_best_only": true,
"checkpoint_save_weights_only": false,
"checkpoint_verbose": 1,
"earlystop_monitor": "val_loss",
"earlystop_restore_best_weights": true,
"patience": 50 }

Performance

Model: TinyCNN_resample_full_v3
Optimal Epochs: 226
Training Accuracy: 0.999977
Training Loss: 0.000006
Validation Accuracy: 0.999962
Validation Loss: 0.000008

FLOPs

2666466


Training curve of TinyCNN_resample_full_v3
train acc
val acc
train loss
val loss
loss
accuracy
epoch
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0.001
0.002
0.003
0.004
0.975
0.980
0.985
0.990
0.995
1.000
0
50
100
150
200
250

Model: "model"

Layer (type)	Output Shape	Param #
input_layer (InputLayer)	[(None, 25, 6)]	0
tf.expand_dims (TFOpLambda)	(None, 25, 6, 1)	0
temporal_conv1 (Conv2D)	(None, 25, 6, 16)	144
bn1 (BatchNormalization)	(None, 25, 6, 16)	64
relu1 (ReLU)	(None, 25, 6, 16)	0
spatial_conv1 (Conv2D)	(None, 25, 6, 16)	1552
bn2 (BatchNormalization)	(None, 25, 6, 16)	64
relu2 (ReLU)	(None, 25, 6, 16)	0
temporal_conv2 (Conv2D)	(None, 25, 6, 16)	2064
bn3 (BatchNormalization)	(None, 25, 6, 16)	64
relu3 (ReLU)	(None, 25, 6, 16)	0
spatial_conv2 (Conv2D)	(None, 25, 6, 16)	1552
bn4 (BatchNormalization)	(None, 25, 6, 16)	64
relu4 (ReLU)	(None, 25, 6, 16)	0
temporal_conv3 (Conv2D)	(None, 25, 6, 16)	2064
bn5 (BatchNormalization)	(None, 25, 6, 16)	64
relu5 (ReLU)	(None, 25, 6, 16)	0
spatial_conv3 (Conv2D)	(None, 25, 6, 16)	1552
bn6 (BatchNormalization)	(None, 25, 6, 16)	64
relu6 (ReLU)	(None, 25, 6, 16)	0
global_avg_pool (GlobalAveragePooling2D)	(None, 16)	0
output_layer (Dense)	(None, 2)	34

Total params: 9,346
Trainable params: 9,154
Non-trainable params: 192

Test Report

Settings

Tester

{ "name": "Tester02_th70",
"batch_size": 1024,
"window_length": 25,
"step_percent": 96,
"fall_labeling_th": 10,
"binary_th": 0.7,
"voting_type": "consecutive",
"majority_voting": 2 ,
"test_list": [9, 16, 18, 20, 27, 38],
"full_test_list": [6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38] }

Performance

Sensitivity: 100.00% (444/444)
Specificity: 86.19% (437/507)
Accuracy: 92.64% (881/951)
Lead Time: 537.70 ± 366.43 ms

Accuracy of each motions

Motion 01 - Accuracy: 100.00 (6/6)%
Motion 02 - Accuracy: 75.86 (22/29)%
Motion 03 - Accuracy: 86.67 (26/30)%
Motion 04 - Accuracy: 100.00 (30/30)%
Motion 05 - Accuracy: 53.33 (16/30)%
Motion 06 - Accuracy: 100.00 (28/28)%
Motion 07 - Accuracy: 96.43 (27/28)%
Motion 08 - Accuracy: 96.67 (29/30)%
Motion 09 - Accuracy: 86.21 (25/29)%
Motion 10 - Accuracy: 70.00 (21/30)%
Motion 11 - Accuracy: 100.00 (6/6)%
Motion 12 - Accuracy: 100.00 (6/6)%
Motion 13 - Accuracy: 86.21 (25/29)%
Motion 14 - Accuracy: 93.10 (27/29)%
Motion 15 - Accuracy: 53.33 (16/30)%
Motion 16 - Accuracy: 86.21 (25/29)%
Motion 17 - Accuracy: 100.00 (6/6)%
Motion 18 - Accuracy: 100.00 (26/26)%
Motion 19 - Accuracy: 100.00 (19/19)%
Motion 20 - Accuracy: 100.00 (30/30)%
Motion 21 - Accuracy: 100.00 (30/30)%
Motion 22 - Accuracy: 100.00 (30/30)%
Motion 23 - Accuracy: 100.00 (29/29)%
Motion 24 - Accuracy: 100.00 (30/30)%
Motion 25 - Accuracy: 100.00 (30/30)%
Motion 26 - Accuracy: 100.00 (30/30)%
Motion 27 - Accuracy: 100.00 (30/30)%
Motion 28 - Accuracy: 100.00 (29/29)%
Motion 29 - Accuracy: 100.00 (28/28)%

Motion 30 - Accuracy: 100.00 (29/29)%
Motion 31 - Accuracy: 100.00 (29/29)%
Motion 32 - Accuracy: 100.00 (30/30)%
Motion 33 - Accuracy: 100.00 (30/30)%
Motion 34 - Accuracy: 100.00 (30/30)%
Motion 35 - Accuracy: 88.89 (24/27)%
Motion 36 - Accuracy: 90.00 (27/30)%

Missed files - Subjects

Subject 09 missed files: 10 ['S09T02R03', 'S09T03R01', 'S09T03R02', 'S09T03R03', 'S09T05R02', 'S09T05R03', 'S09T05R04', 'S09T10R02', 'S09T10R03', 'S09T10R05']
Subject 16 missed files: 16 ['S16T02R01', 'S16T02R02', 'S16T02R05', 'S16T03R04', 'S16T05R03', 'S16T05R05', 'S16T10R02', 'S16T10R03', 'S16T10R04', 'S16T13R04', 'S16T15R01', 'S16T15R02', 'S16T15R03', 'S16T15R04', 'S16T15R05', 'S16T36R05']
Subject 18 missed files: 5 ['S18T05R04', 'S18T07R04', 'S18T14R05', 'S18T35R01', 'S18T36R01']
Subject 20 missed files: 12 ['S20T02R01', 'S20T10R01', 'S20T10R04', 'S20T10R05', 'S20T13R04', 'S20T13R05', 'S20T14R05', 'S20T16R01', 'S20T16R02', 'S20T16R03', 'S20T16R04', 'S20T36R01']
Subject 27 missed files: 11 ['S27T02R01', 'S27T05R01', 'S27T05R02', 'S27T05R05', 'S27T13R03', 'S27T15R02', 'S27T15R03', 'S27T15R04', 'S27T15R05', 'S27T35R02', 'S27T35R05']
Subject 38 missed files: 16 ['S38T02R02', 'S38T05R01', 'S38T05R02', 'S38T05R03', 'S38T05R04', 'S38T05R05', 'S38T08R01', 'S38T09R01', 'S38T09R02', 'S38T09R03', 'S38T09R04', 'S38T15R01', 'S38T15R02', 'S38T15R03', 'S38T15R04', 'S38T15R05']

Missed files - Class

Missed Falls: 0 []
Missed ADLs: 70 ['S09T02R03', 'S09T03R01', 'S09T03R02', 'S09T03R03', 'S09T05R02', 'S09T05R03', 'S09T05R04', 'S09T10R02', 'S09T10R03', 'S09T10R05', 'S16T02R01', 'S16T02R02', 'S16T02R05', 'S16T03R04', 'S16T05R03', 'S16T05R05', 'S16T10R02', 'S16T10R03', 'S16T10R04', 'S16T13R04', 'S16T15R01', 'S16T15R02', 'S16T15R03', 'S16T15R04', 'S16T15R05', 'S16T36R05', 'S18T05R04', 'S18T07R04', 'S18T14R05', 'S18T35R01', 'S18T36R01', 'S20T02R01', 'S20T10R01', 'S20T10R04', 'S20T10R05', 'S20T13R04', 'S20T13R05', 'S20T14R05', 'S20T16R01', 'S20T16R02', 'S20T16R03', 'S20T16R04', 'S20T36R01', 'S27T02R01', 'S27T05R01', 'S27T05R02', 'S27T05R05', 'S27T13R03', 'S27T15R02', 'S27T15R03', 'S27T15R04', 'S27T15R05', 'S27T35R02', 'S27T35R05', 'S38T02R02', 'S38T05R01', 'S38T05R02', 'S38T05R03', 'S38T05R04', 'S38T05R05', 'S38T08R01', 'S38T09R01', 'S38T09R02', 'S38T09R03', 'S38T09R04', 'S38T15R01', 'S38T15R02', 'S38T15R03', 'S38T15R04', 'S38T15R05']

Lead time of each motions

Motion 20 - Lead time: 958.00 ± 505.84 ms
Motion 21 - Lead time: 245.33 ± 202.97 ms
Motion 22 - Lead time: 598.67 ± 348.56 ms
Motion 23 - Lead time: 664.14 ± 216.90 ms
Motion 24 - Lead time: 682.67 ± 235.39 ms
Motion 25 - Lead time: 594.67 ± 293.53 ms
Motion 26 - Lead time: 596.67 ± 236.25 ms
Motion 27 - Lead time: 481.33 ± 117.75 ms
Motion 28 - Lead time: 472.41 ± 132.19 ms
Motion 29 - Lead time: 692.14 ± 631.67 ms
Motion 30 - Lead time: 425.52 ± 142.96 ms
Motion 31 - Lead time: 402.07 ± 299.44 ms
Motion 32 - Lead time: 394.00 ± 182.51 ms
Motion 33 - Lead time: 305.33 ± 194.45 ms
Motion 34 - Lead time: 556.67 ± 549.06 ms

Distribution of Lead time

Group1(~100ms): 23 ['S09T21R01(-40.0 ms)', 'S09T21R05(-20.0 ms)', 'S16T21R01(-20.0 ms)', 'S20T21R01(40.0 ms)', 'S20T21R02(80.0 ms)', 'S20T21R03(-40.0 ms)', 'S20T21R04(80.0 ms)', 'S20T21R05(-20.0 ms)', 'S38T21R02(20.0 ms)', 'S38T22R01(-160.0 ms)', 'S38T22R02(20.0 ms)', 'S18T25R04(40.0 ms)', 'S16T30R05(60.0 ms)', 'S20T32R03(20.0 ms)', 'S18T33R01(-120.0 ms)', 'S18T33R04(0.0 ms)', 'S20T33R02(20.0 ms)', 'S38T33R03(-60.0 ms)', 'S38T33R04(-40.0 ms)', 'S38T33R05(20.0 ms)', 'S16T34R02(60.0 ms)', 'S20T34R01(60.0 ms)', 'S27T34R01(60.0 ms)']

Group2(100~150ms): 13 ['S18T21R01(100.0 ms)', 'S18T21R02(120.0 ms)', 'S38T24R04(120.0 ms)', 'S16T25R01(100.0 ms)', 'S16T25R03(140.0 ms)', 'S16T31R02(140.0 ms)', 'S16T31R03(140.0 ms)', 'S20T31R01(140.0 ms)', 'S16T32R04(140.0 ms)', 'S16T32R05(120.0 ms)', 'S27T33R05(140.0 ms)', 'S38T34R01(140.0 ms)', 'S38T34R02(100.0 ms)']

Group3(150~200ms): 14 ['S18T21R03(180.0 ms)', 'S27T21R05(180.0 ms)', 'S18T23R02(180.0 ms)', 'S38T24R02(160.0 ms)', 'S20T26R01(180.0 ms)', 'S09T27R04(180.0 ms)', 'S16T28R01(180.0 ms)', 'S16T31R05(180.0 ms)', 'S20T31R02(160.0 ms)', 'S20T31R03(160.0 ms)', 'S27T32R02(160.0 ms)', 'S38T33R01(160.0 ms)', 'S09T34R02(180.0 ms)', 'S27T34R05(160.0 ms)']

Group4(200ms~): 394 ['S09T20R02(1900.0 ms)', 'S09T20R03(1520.0 ms)', 'S09T20R04(1360.0 ms)', 'S09T20R05(2040.0 ms)', 'S09T20R06(1660.0 ms)', 'S16T20R01(440.0 ms)', 'S16T20R02(520.0 ms)', 'S16T20R03(680.0 ms)', 'S16T20R04(380.0 ms)', 'S16T20R05(320.0 ms)', 'S18T20R01(640.0 ms)', 'S18T20R02(680.0 ms)', 'S18T20R03(1060.0 ms)', 'S18T20R04(620.0 ms)', 'S18T20R05(240.0 ms)', 'S20T20R01(940.0 ms)', 'S20T20R02(660.0 ms)', 'S20T20R03(840.0 ms)', 'S20T20R04(760.0 ms)', 'S20T20R05(740.0 ms)', 'S27T20R01(1660.0 ms)', 'S27T20R02(720.0 ms)', 'S27T20R03(1000.0 ms)', 'S27T20R04(1640.0 ms)', 'S27T20R05(240.0 ms)', 'S38T20R01(1400.0 ms)', 'S38T20R02(1600.0 ms)', 'S38T20R03(860.0 ms)', 'S38T20R04(520.0 ms)', 'S38T20R05(1100.0 ms)', 'S09T21R02(600.0 ms)', 'S09T21R03(740.0 ms)', 'S09T21R04(440.0 ms)', 'S16T21R02(360.0 ms)', 'S16T21R03(480.0 ms)', 'S16T21R04(440.0 ms)', 'S16T21R05(360.0 ms)', 'S16T21R06(300.0 ms)', 'S18T21R04(200.0 ms)', 'S18T21R05(340.0 ms)', 'S27T21R01(300.0 ms)', 'S27T21R02(400.0 ms)', 'S27T21R03(280.0 ms)', 'S38T21R01(380.0 ms)', 'S38T21R03(480.0 ms)', 'S38T21R04(200.0 ms)', 'S38T21R05(400.0 ms)', 'S09T22R01(1220.0 ms)', 'S09T22R02(480.0 ms)', 'S09T22R03(420.0 ms)', 'S09T22R04(1180.0 ms)', 'S09T22R05(300.0 ms)', 'S16T22R01(480.0 ms)', 'S16T22R02(1580.0 ms)', 'S16T22R03(680.0 ms)', 'S16T22R04(260.0 ms)', 'S16T22R05(660.0 ms)', 'S18T22R01(720.0 ms)', 'S18T22R02(580.0 ms)', 'S18T22R03(660.0 ms)', 'S18T22R04(540.0 ms)', 'S18T22R05(740.0 ms)', 'S20T22R01(400.0 ms)', 'S20T22R02(840.0 ms)', 'S20T22R03(560.0 ms)', 'S20T22R04(480.0 ms)', 'S20T22R05(480.0 ms)', 'S20T22R06(400.0 ms)', 'S27T22R01(440.0 ms)', 'S27T22R03(480.0 ms)', 'S27T22R04(360.0 ms)', 'S27T22R05(940.0 ms)', 'S38T22R03(1100.0 ms)', 'S38T22R04(340.0 ms)', 'S38T22R05(780.0 ms)', 'S09T23R01(800.0 ms)', 'S09T23R02(880.0 ms)', 'S09T23R03(860.0

ms)', 'S09T23R04(820.0 ms)', 'S09T23R05(880.0 ms)', 'S16T23R01(520.0 ms)', 'S16T23R02(620.0 ms)', 'S16T23R03(580.0 ms)', 'S16T23R04(280.0 ms)', 'S16T23R05(520.0 ms)', 'S18T23R01(680.0 ms)', 'S18T23R03(520.0 ms)', 'S18T23R04(560.0 ms)', 'S18T23R05(740.0 ms)', 'S20T23R01(860.0 ms)', 'S20T23R02(620.0 ms)', 'S20T23R03(760.0 ms)', 'S20T23R04(800.0 ms)', 'S20T23R05(780.0 ms)', 'S27T23R01(1260.0 ms)', 'S27T23R02(540.0 ms)', 'S27T23R03(860.0 ms)', 'S27T23R04(840.0 ms)', 'S38T23R01(320.0 ms)', 'S38T23R02(460.0 ms)', 'S38T23R03(640.0 ms)', 'S38T23R04(600.0 ms)', 'S38T23R05(480.0 ms)', 'S09T24R01(720.0 ms)', 'S09T24R02(680.0 ms)', 'S09T24R03(420.0 ms)', 'S09T24R04(740.0 ms)', 'S09T24R05(580.0 ms)', 'S16T24R01(620.0 ms)', 'S16T24R02(580.0 ms)', 'S16T24R03(740.0 ms)', 'S16T24R04(760.0 ms)', 'S16T24R05(560.0 ms)', 'S18T24R01(860.0 ms)', 'S18T24R02(820.0 ms)', 'S18T24R03(620.0 ms)', 'S18T24R04(640.0 ms)', 'S18T24R05(520.0 ms)', 'S20T24R01(820.0 ms)', 'S20T24R02(820.0 ms)', 'S20T24R03(780.0 ms)', 'S20T24R04(900.0 ms)', 'S20T24R05(1060.0 ms)', 'S27T24R01(1000.0 ms)', 'S27T24R02(700.0 ms)', 'S27T24R03(1080.0 ms)', 'S27T24R04(780.0 ms)', 'S27T24R05(1020.0 ms)', 'S38T24R01(220.0 ms)', 'S38T24R03(660.0 ms)', 'S38T24R05(500.0 ms)', 'S09T25R01(540.0 ms)', 'S09T25R02(400.0 ms)', 'S09T25R03(320.0 ms)', 'S09T25R04(260.0 ms)', 'S09T25R05(760.0 ms)', 'S16T25R02(880.0 ms)', 'S16T25R04(360.0 ms)', 'S16T25R05(880.0 ms)', 'S18T25R01(660.0 ms)', 'S18T25R02(560.0 ms)', 'S18T25R03(420.0 ms)', 'S18T25R05(580.0 ms)', 'S20T25R01(820.0 ms)', 'S20T25R02(1060.0 ms)', 'S20T25R03(1140.0 ms)', 'S20T25R04(980.0 ms)', 'S20T25R05(1260.0 ms)', 'S27T25R01(520.0 ms)', 'S27T25R02(540.0 ms)', 'S27T25R03(380.0 ms)', 'S27T25R04(840.0 ms)', 'S27T25R05(660.0 ms)', 'S38T25R01(680.0 ms)', 'S38T25R02(540.0 ms)', 'S38T25R03(560.0 ms)', 'S38T25R04(440.0 ms)', 'S38T25R05(520.0 ms)', 'S09T26R01(780.0 ms)', 'S09T26R02(600.0 ms)', 'S09T26R03(360.0 ms)', 'S09T26R04(200.0 ms)', 'S09T26R05(740.0 ms)', 'S16T26R01(1020.0 ms)', 'S16T26R02(1000.0 ms)', 'S16T26R03(940.0 ms)', 'S16T26R04(560.0 ms)', 'S16T26R05(340.0 ms)', 'S18T26R01(480.0 ms)', 'S18T26R02(560.0 ms)', 'S18T26R03(720.0 ms)', 'S18T26R04(360.0 ms)', 'S18T26R05(520.0 ms)', 'S20T26R02(500.0 ms)', 'S20T26R03(1140.0 ms)', 'S20T26R04(880.0 ms)', 'S20T26R05(640.0 ms)', 'S27T26R01(380.0 ms)', 'S27T26R02(560.0 ms)', 'S27T26R03(580.0 ms)', 'S27T26R04(600.0 ms)', 'S27T26R05(420.0 ms)', 'S38T26R01(300.0 ms)', 'S38T26R02(820.0 ms)', 'S38T26R03(500.0 ms)', 'S38T26R04(620.0 ms)', 'S38T26R05(600.0 ms)', 'S09T27R01(420.0 ms)', 'S09T27R02(440.0 ms)', 'S09T27R03(340.0 ms)', 'S09T27R05(340.0 ms)', 'S16T27R01(580.0 ms)', 'S16T27R02(600.0 ms)', 'S16T27R03(560.0 ms)', 'S16T27R04(580.0 ms)', 'S16T27R05(520.0 ms)', 'S18T27R01(220.0 ms)', 'S18T27R02(400.0 ms)', 'S18T27R03(280.0 ms)', 'S18T27R04(380.0 ms)', 'S18T27R05(400.0 ms)', 'S20T27R01(480.0 ms)', 'S20T27R02(600.0 ms)', 'S20T27R03(540.0 ms)', 'S20T27R04(480.0 ms)', 'S20T27R05(520.0 ms)', 'S27T27R01(540.0 ms)', 'S27T27R02(560.0 ms)', 'S27T27R03(560.0 ms)', 'S27T27R04(520.0 ms)', 'S27T27R05(480.0 ms)', 'S38T27R01(520.0 ms)', 'S38T27R02(520.0 ms)', 'S38T27R03(640.0 ms)', 'S38T27R04(660.0 ms)', 'S38T27R05(580.0 ms)', 'S09T28R01(380.0 ms)', 'S09T28R02(400.0 ms)', 'S09T28R03(840.0 ms)', 'S09T28R04(520.0 ms)', 'S09T28R05(380.0 ms)', 'S16T28R02(280.0 ms)', 'S16T28R03(500.0 ms)', 'S16T28R04(440.0 ms)', 'S16T28R05(360.0 ms)', 'S18T28R01(460.0 ms)', 'S18T28R02(700.0 ms)', 'S18T28R03(500.0 ms)', 'S18T28R04(400.0 ms)', 'S18T28R05(420.0 ms)', 'S20T28R01(500.0 ms)', 'S20T28R02(600.0 ms)', 'S20T28R03(520.0 ms)', 'S20T28R04(600.0 ms)', 'S27T28R01(540.0 ms)', 'S27T28R02(580.0 ms)', 'S27T28R03(440.0 ms)', 'S27T28R04(580.0 ms)', 'S27T28R05(440.0 ms)', 'S38T28R01(520.0 ms)', 'S38T28R02(300.0 ms)', 'S38T28R03(340.0 ms)', 'S38T28R04(620.0 ms)', 'S38T28R05(360.0 ms)', 'S09T29R01(1760.0 ms)', 'S09T29R02(540.0 ms)', 'S09T29R03(3200.0 ms)', 'S09T29R04(760.0 ms)', 'S09T29R05(880.0 ms)', 'S16T29R01(240.0 ms)', 'S16T29R02(260.0 ms)', 'S16T29R03(1920.0 ms)', 'S16T29R04(400.0 ms)', 'S16T29R05(380.0 ms)', 'S18T29R01(740.0 ms)', 'S18T29R02(380.0 ms)', 'S18T29R03(780.0 ms)', 'S18T29R04(800.0 ms)', 'S18T29R05(520.0 ms)', 'S20T29R01(260.0 ms)', 'S20T29R02(560.0 ms)', 'S20T29R03(340.0 ms)', 'S20T29R05(280.0 ms)', 'S27T29R01(240.0 ms)', 'S27T29R02(220.0 ms)', 'S27T29R03(1140.0 ms)', 'S27T29R04(420.0 ms)', 'S27T29R05(500.0 ms)', 'S38T29R01(480.0 ms)', 'S38T29R02(400.0 ms)', 'S38T29R03(480.0 ms)', 'S38T29R04(500.0 ms)', 'S09T30R01(320.0 ms)', 'S09T30R02(520.0 ms)', 'S09T30R03(580.0 ms)', 'S09T30R04(480.0 ms)', 'S09T30R05(580.0 ms)', 'S16T30R01(320.0 ms)', 'S16T30R02(340.0 ms)', 'S16T30R03(240.0 ms)', 'S16T30R04(240.0 ms)', 'S18T30R01(440.0 ms)', 'S18T30R02(740.0 ms)', 'S18T30R03(440.0 ms)', 'S18T30R04(460.0 ms)', 'S18T30R05(420.0 ms)', 'S20T30R02(380.0 ms)', 'S20T30R03(340.0 ms)', 'S20T30R04(480.0 ms)', 'S20T30R05(400.0 ms)', 'S27T30R01(420.0 ms)', 'S27T30R02(500.0 ms)', 'S27T30R03(700.0 ms)', 'S27T30R04(460.0 ms)', 'S27T30R05(620.0 ms)', 'S38T30R01(260.0 ms)', 'S38T30R02(560.0 ms)', 'S38T30R03(360.0 ms)', 'S38T30R04(300.0 ms)', 'S38T30R05(380.0

ms)', 'S09T31R01(560.0 ms)', 'S09T31R02(280.0 ms)', 'S09T31R03(360.0 ms)', 'S09T31R04(300.0 ms)', 'S09T31R05(580.0 ms)', 'S16T31R01(340.0 ms)', 'S16T31R04(1820.0 ms)', 'S18T31R01(520.0 ms)', 'S18T31R02(480.0 ms)', 'S18T31R03(380.0 ms)', 'S18T31R04(420.0 ms)', 'S18T31R05(260.0 ms)', 'S20T31R05(360.0 ms)', 'S27T31R01(320.0 ms)', 'S27T31R02(340.0 ms)', 'S27T31R03(320.0 ms)', 'S27T31R04(580.0 ms)', 'S27T31R05(420.0 ms)', 'S38T31R01(360.0 ms)', 'S38T31R02(400.0 ms)', 'S38T31R03(340.0 ms)', 'S38T31R04(580.0 ms)', 'S38T31R05(420.0 ms)', 'S09T32R01(420.0 ms)', 'S09T32R02(440.0 ms)', 'S09T32R03(300.0 ms)', 'S09T32R04(700.0 ms)', 'S09T32R05(740.0 ms)', 'S16T32R01(740.0 ms)', 'S16T32R02(460.0 ms)', 'S16T32R03(260.0 ms)', 'S18T32R01(380.0 ms)', 'S18T32R02(380.0 ms)', 'S18T32R03(320.0 ms)', 'S18T32R04(360.0 ms)', 'S18T32R05(260.0 ms)', 'S20T32R01(340.0 ms)', 'S20T32R02(360.0 ms)', 'S20T32R04(420.0 ms)', 'S20T32R05(300.0 ms)', 'S27T32R01(220.0 ms)', 'S27T32R03(600.0 ms)', 'S27T32R04(620.0 ms)', 'S27T32R05(740.0 ms)', 'S38T32R01(460.0 ms)', 'S38T32R02(400.0 ms)', 'S38T32R03(420.0 ms)', 'S38T32R04(300.0 ms)', 'S38T32R05(440.0 ms)', 'S09T33R01(420.0 ms)', 'S09T33R02(600.0 ms)', 'S09T33R03(420.0 ms)', 'S09T33R04(460.0 ms)', 'S09T33R05(460.0 ms)', 'S16T33R01(480.0 ms)', 'S16T33R02(520.0 ms)', 'S16T33R03(440.0 ms)', 'S16T33R04(380.0 ms)', 'S16T33R05(420.0 ms)', 'S18T33R02(380.0 ms)', 'S18T33R03(520.0 ms)', 'S18T33R05(320.0 ms)', 'S20T33R01(280.0 ms)', 'S20T33R03(320.0 ms)', 'S20T33R04(280.0 ms)', 'S20T33R05(300.0 ms)', 'S27T33R01(380.0 ms)', 'S27T33R02(520.0 ms)', 'S27T33R03(380.0 ms)', 'S27T33R04(380.0 ms)', 'S38T33R02(380.0 ms)', 'S09T34R01(820.0 ms)', 'S09T34R03(240.0 ms)', 'S09T34R04(620.0 ms)', 'S09T34R05(300.0 ms)', 'S16T34R01(380.0 ms)', 'S16T34R03(340.0 ms)', 'S16T34R04(1380.0 ms)', 'S16T34R05(760.0 ms)', 'S18T34R01(1200.0 ms)', 'S18T34R02(1080.0 ms)', 'S18T34R03(200.0 ms)', 'S18T34R04(1180.0 ms)', 'S18T34R05(1400.0 ms)', 'S20T34R02(560.0 ms)', 'S20T34R03(400.0 ms)', 'S20T34R04(500.0 ms)', 'S20T34R05(540.0 ms)', 'S27T34R02(240.0 ms)', 'S27T34R03(300.0 ms)', 'S27T34R04(2620.0 ms)', 'S38T34R03(260.0 ms)', 'S38T34R04(380.0 ms)', 'S38T34R05(240.0 ms)']

Graph of missed files

Full Performance

Sensitivity: 100.00% (2344/2344)
Specificity: 97.43% (2659/2729)
Accuracy: 98.62% (5003/5073)
Lead Time: 593.58 ± 344.48 ms

Accuracy of each motions

Motion 01 - Accuracy: 100.00 (32/32)%
Motion 02 - Accuracy: 95.54 (150/157)%
Motion 03 - Accuracy: 97.45 (153/157)%
Motion 04 - Accuracy: 100.00 (160/160)%
Motion 05 - Accuracy: 91.03 (142/156)%
Motion 06 - Accuracy: 100.00 (151/151)%
Motion 07 - Accuracy: 99.35 (153/154)%
Motion 08 - Accuracy: 99.36 (155/156)%
Motion 09 - Accuracy: 97.35 (147/151)%
Motion 10 - Accuracy: 94.34 (150/159)%
Motion 11 - Accuracy: 100.00 (32/32)%
Motion 12 - Accuracy: 100.00 (32/32)%
Motion 13 - Accuracy: 97.32 (145/149)%
Motion 14 - Accuracy: 98.71 (153/155)%
Motion 15 - Accuracy: 91.08 (143/157)%
Motion 16 - Accuracy: 97.37 (148/152)%
Motion 17 - Accuracy: 100.00 (32/32)%
Motion 18 - Accuracy: 100.00 (152/152)%
Motion 19 - Accuracy: 100.00 (149/149)%
Motion 20 - Accuracy: 100.00 (159/159)%
Motion 21 - Accuracy: 100.00 (161/161)%
Motion 22 - Accuracy: 100.00 (161/161)%
Motion 23 - Accuracy: 100.00 (155/155)%
Motion 24 - Accuracy: 100.00 (157/157)%
Motion 25 - Accuracy: 100.00 (157/157)%
Motion 26 - Accuracy: 100.00 (155/155)%
Motion 27 - Accuracy: 100.00 (158/158)%
Motion 28 - Accuracy: 100.00 (154/154)%
Motion 29 - Accuracy: 100.00 (152/152)%
Motion 30 - Accuracy: 100.00 (153/153)%
Motion 31 - Accuracy: 100.00 (150/150)%
Motion 32 - Accuracy: 100.00 (160/160)%
Motion 33 - Accuracy: 100.00 (158/158)%
Motion 34 - Accuracy: 100.00 (154/154)%
Motion 35 - Accuracy: 97.81 (134/137)%
Motion 36 - Accuracy: 97.99 (146/149)%

Missed files - Subjects

Subject 06 missed files: 0 []
Subject 07 missed files: 0 []
Subject 08 missed files: 0 []
Subject 09 missed files: 10 ['S09T02R03', 'S09T03R01', 'S09T03R02', 'S09T03R03', 'S09T05R02', 'S09T05R03', 'S09T05R04', 'S09T10R02', 'S09T10R03', 'S09T10R05']
Subject 10 missed files: 0 []
Subject 11 missed files: 0 []
Subject 12 missed files: 0 []
Subject 13 missed files: 0 []
Subject 14 missed files: 0 []
Subject 15 missed files: 0 []
Subject 16 missed files: 16 ['S16T02R01', 'S16T02R02', 'S16T02R05', 'S16T03R04', 'S16T05R03', 'S16T05R05', 'S16T10R02', 'S16T10R03', 'S16T10R04', 'S16T13R04', 'S16T15R01', 'S16T15R02', 'S16T15R03', 'S16T15R04', 'S16T15R05', 'S16T36R05']
Subject 17 missed files: 0 []
Subject 18 missed files: 5 ['S18T05R04', 'S18T07R04', 'S18T14R05', 'S18T35R01', 'S18T36R01']
Subject 19 missed files: 0 []
Subject 20 missed files: 12 ['S20T02R01', 'S20T10R01', 'S20T10R04', 'S20T10R05', 'S20T13R04', 'S20T13R05', 'S20T14R05', 'S20T16R01', 'S20T16R02', 'S20T16R03', 'S20T16R04', 'S20T36R01']
Subject 21 missed files: 0 []
Subject 22 missed files: 0 []
Subject 23 missed files: 0 []
Subject 24 missed files: 0 []
Subject 25 missed files: 0 []
Subject 26 missed files: 0 []
Subject 27 missed files: 11 ['S27T02R01', 'S27T05R01', 'S27T05R02', 'S27T05R05', 'S27T13R03', 'S27T15R02', 'S27T15R03', 'S27T15R04', 'S27T15R05', 'S27T35R02', 'S27T35R05']
Subject 28 missed files: 0 []
Subject 29 missed files: 0 []
Subject 30 missed files: 0 []
Subject 31 missed files: 0 []
Subject 32 missed files: 0 []
Subject 33 missed files: 0 []
Subject 34 missed files: 0 []
Subject 35 missed files: 0 []
Subject 36 missed files: 0 []
Subject 37 missed files: 0 []
Subject 38 missed files: 16 ['S38T02R02', 'S38T05R01', 'S38T05R02', 'S38T05R03', 'S38T05R04', 'S38T05R05', 'S38T08R01', 'S38T09R01', 'S38T09R02', 'S38T09R03', 'S38T09R04', 'S38T15R01', 'S38T15R02', 'S38T15R03', 'S38T15R04', 'S38T15R05']

Missed files - Class

Missed Falls: 0 []
Missed ADLs: 70 ['S09T02R03', 'S09T03R01', 'S09T03R02', 'S09T03R03', 'S09T05R02', 'S09T05R03', 'S09T05R04', 'S09T10R02', 'S09T10R03', 'S09T10R05', 'S16T02R01', 'S16T02R02', 'S16T02R05', 'S16T03R04', 'S16T05R03', 'S16T05R05', 'S16T10R02', 'S16T10R03', 'S16T10R04', 'S16T13R04', 'S16T15R01', 'S16T15R02', 'S16T15R03', 'S16T15R04', 'S16T15R05', 'S16T36R05', 'S18T05R04', 'S18T07R04', 'S18T14R05', 'S18T35R01', 'S18T36R01', 'S20T02R01', 'S20T10R01', 'S20T10R04', 'S20T10R05', 'S20T13R04', 'S20T13R05', 'S20T14R05', 'S20T16R01', 'S20T16R02', 'S20T16R03', 'S20T16R04', 'S20T36R01', 'S27T02R01', 'S27T05R01', 'S27T05R02', 'S27T05R05', 'S27T13R03', 'S27T15R02', 'S27T15R03', 'S27T15R04', 'S27T15R05', 'S27T35R02', 'S27T35R05', 'S38T02R02', 'S38T05R01', 'S38T05R02', 'S38T05R03', 'S38T05R04', 'S38T05R05', 'S38T08R01', 'S38T09R01', 'S38T09R02', 'S38T09R03', 'S38T09R04', 'S38T15R01', 'S38T15R02', 'S38T15R03', 'S38T15R04', 'S38T15R05']

Lead time of each motions

Motion 20 - Lead time: 890.82 ± 396.94 ms
Motion 21 - Lead time: 345.71 ± 166.68 ms
Motion 22 - Lead time: 641.12 ± 295.95 ms
Motion 23 - Lead time: 826.19 ± 358.22 ms
Motion 24 - Lead time: 723.95 ± 316.16 ms
Motion 25 - Lead time: 736.31 ± 225.03 ms
Motion 26 - Lead time: 717.68 ± 231.36 ms
Motion 27 - Lead time: 488.23 ± 142.72 ms
Motion 28 - Lead time: 535.58 ± 248.03 ms
Motion 29 - Lead time: 695.66 ± 471.83 ms
Motion 30 - Lead time: 434.12 ± 179.66 ms
Motion 31 - Lead time: 398.80 ± 260.41 ms
Motion 32 - Lead time: 443.25 ± 148.49 ms
Motion 33 - Lead time: 385.57 ± 162.26 ms
Motion 34 - Lead time: 641.69 ± 559.35 ms

Distribution of Lead time

Group1(~100ms): 36 ['S06T21R01(40.0 ms)', 'S08T21R01(80.0 ms)', 'S09T21R01(-40.0 ms)', 'S09T21R05(-20.0 ms)', 'S13T21R04(80.0 ms)', 'S16T21R01(-20.0 ms)', 'S20T21R01(40.0 ms)', 'S20T21R02(80.0 ms)', 'S20T21R03(-40.0 ms)', 'S20T21R04(80.0 ms)', 'S20T21R05(-20.0 ms)', 'S38T21R02(20.0 ms)', 'S38T22R01(-160.0 ms)', 'S38T22R02(20.0 ms)', 'S18T25R04(40.0 ms)', 'S06T27R01(60.0 ms)', 'S06T27R05(-100.0 ms)', 'S07T28R04(80.0 ms)', 'S07T30R06(60.0 ms)', 'S16T30R05(60.0 ms)', 'S15T31R02(80.0 ms)', 'S15T31R03(40.0 ms)', 'S17T31R01(60.0 ms)', 'S22T31R03(-20.0 ms)', 'S32T31R03(60.0 ms)', 'S33T31R04(80.0 ms)', 'S20T32R03(20.0 ms)', 'S18T33R01(-120.0 ms)', 'S18T33R04(0.0 ms)', 'S20T33R02(20.0 ms)', 'S38T33R03(-60.0 ms)', 'S38T33R04(-40.0 ms)', 'S38T33R05(20.0 ms)', 'S16T34R02(60.0 ms)', 'S20T34R01(60.0 ms)', 'S27T34R01(60.0 ms)']

Group2(100~150ms): 31 ['S24T20R04(140.0 ms)', 'S15T21R05(120.0 ms)', 'S18T21R01(100.0 ms)', 'S18T21R02(120.0 ms)', 'S19T21R04(120.0 ms)', 'S38T24R04(120.0 ms)', 'S16T25R01(100.0 ms)', 'S16T25R03(140.0 ms)', 'S15T30R04(100.0 ms)', 'S26T30R01(140.0 ms)', 'S26T30R02(120.0 ms)', 'S26T30R03(100.0 ms)', 'S10T31R03(120.0 ms)', 'S13T31R03(120.0 ms)', 'S16T31R02(140.0 ms)', 'S16T31R03(140.0 ms)', 'S20T31R01(140.0 ms)', 'S22T31R02(100.0 ms)', 'S24T31R03(100.0 ms)', 'S25T31R04(100.0 ms)', 'S25T31R05(120.0 ms)', 'S31T31R01(100.0 ms)', 'S32T31R05(100.0 ms)', 'S36T31R02(120.0 ms)', 'S16T32R04(140.0 ms)', 'S16T32R05(120.0 ms)', 'S21T33R04(100.0 ms)', 'S27T33R05(140.0 ms)', 'S23T34R05(120.0 ms)', 'S38T34R01(140.0 ms)', 'S38T34R02(100.0 ms)']

Group3(150~200ms): 31 ['S11T21R01(180.0 ms)', 'S11T21R05(160.0 ms)', 'S12T21R01(180.0 ms)', 'S14T21R02(180.0 ms)', 'S14T21R05(160.0 ms)', 'S18T21R03(180.0 ms)', 'S19T21R03(160.0 ms)', 'S21T21R05(160.0 ms)', 'S27T21R05(180.0 ms)', 'S18T23R02(180.0 ms)', 'S21T24R03(160.0 ms)', 'S38T24R02(160.0 ms)', 'S20T26R01(180.0 ms)', 'S06T27R02(180.0 ms)', 'S06T27R03(180.0 ms)', 'S08T27R01(180.0 ms)', 'S09T27R04(180.0 ms)', 'S16T28R01(180.0 ms)', 'S13T30R03(180.0 ms)', 'S13T30R04(180.0 ms)', 'S16T31R05(180.0 ms)', 'S20T31R02(160.0 ms)', 'S20T31R03(160.0 ms)', 'S23T31R03(180.0 ms)', 'S23T31R05(180.0 ms)', 'S27T32R02(160.0 ms)', 'S14T33R02(160.0 ms)', 'S29T33R01(180.0 ms)', 'S38T33R01(160.0 ms)', 'S09T34R02(180.0 ms)', 'S27T34R05(160.0 ms)']

Group4(200ms~): 2246 ['S06T20R01(580.0 ms)', 'S06T20R02(900.0 ms)', 'S06T20R03(520.0 ms)', 'S06T20R04(400.0 ms)', 'S06T20R05(820.0 ms)', 'S07T20R01(740.0 ms)', 'S07T20R02(1700.0 ms)', 'S07T20R03(1060.0 ms)', 'S07T20R04(680.0 ms)', 'S07T20R05(860.0 ms)', 'S08T20R02(1000.0 ms)', 'S08T20R03(1140.0 ms)', 'S08T20R04(1420.0 ms)', 'S08T20R05(1320.0 ms)', 'S08T20R06(1620.0 ms)', 'S09T20R02(1900.0 ms)', 'S09T20R03(1520.0 ms)', 'S09T20R04(1360.0 ms)', 'S09T20R05(2040.0 ms)', 'S09T20R06(1660.0 ms)', 'S10T20R01(620.0 ms)', 'S10T20R02(540.0 ms)', 'S10T20R03(760.0 ms)', 'S10T20R04(1140.0

ms)', 'S10T20R05(980.0 ms)', 'S11T20R01(480.0 ms)', 'S11T20R02(540.0 ms)', 'S11T20R03(440.0 ms)', 'S11T20R04(640.0 ms)', 'S11T20R05(540.0 ms)', 'S12T20R01(660.0 ms)', 'S12T20R02(620.0 ms)', 'S12T20R03(620.0 ms)', 'S12T20R04(600.0 ms)', 'S12T20R05(680.0 ms)', 'S13T20R01(780.0 ms)', 'S13T20R02(680.0 ms)', 'S13T20R03(620.0 ms)', 'S13T20R04(1200.0 ms)', 'S13T20R06(500.0 ms)', 'S14T20R01(600.0 ms)', 'S14T20R02(620.0 ms)', 'S14T20R03(420.0 ms)', 'S14T20R04(480.0 ms)', 'S14T20R05(920.0 ms)', 'S15T20R01(640.0 ms)', 'S15T20R02(860.0 ms)', 'S15T20R03(720.0 ms)', 'S15T20R04(880.0 ms)', 'S15T20R05(920.0 ms)', 'S16T20R01(440.0 ms)', 'S16T20R02(520.0 ms)', 'S16T20R03(680.0 ms)', 'S16T20R04(380.0 ms)', 'S16T20R05(320.0 ms)', 'S17T20R01(760.0 ms)', 'S17T20R02(1100.0 ms)', 'S17T20R03(860.0 ms)', 'S17T20R04(800.0 ms)', 'S17T20R05(1760.0 ms)', 'S18T20R01(640.0 ms)', 'S18T20R02(680.0 ms)', 'S18T20R03(1060.0 ms)', 'S18T20R04(620.0 ms)', 'S18T20R05(240.0 ms)', 'S19T20R01(620.0 ms)', 'S19T20R02(880.0 ms)', 'S19T20R03(800.0 ms)', 'S19T20R04(360.0 ms)', 'S19T20R05(400.0 ms)', 'S20T20R01(940.0 ms)', 'S20T20R02(660.0 ms)', 'S20T20R03(840.0 ms)', 'S20T20R04(760.0 ms)', 'S20T20R05(740.0 ms)', 'S21T20R02(1040.0 ms)', 'S21T20R03(1400.0 ms)', 'S21T20R04(1460.0 ms)', 'S21T20R05(840.0 ms)', 'S21T20R06(980.0 ms)', 'S22T20R01(620.0 ms)', 'S22T20R02(940.0 ms)', 'S22T20R03(740.0 ms)', 'S22T20R04(900.0 ms)', 'S22T20R05(980.0 ms)', 'S23T20R01(940.0 ms)', 'S23T20R02(1020.0 ms)', 'S23T20R03(660.0 ms)', 'S23T20R04(680.0 ms)', 'S23T20R05(660.0 ms)', 'S24T20R01(600.0 ms)', 'S24T20R03(400.0 ms)', 'S24T20R05(260.0 ms)', 'S25T20R01(1280.0 ms)', 'S25T20R02(1320.0 ms)', 'S25T20R03(860.0 ms)', 'S25T20R04(1420.0 ms)', 'S25T20R05(1360.0 ms)', 'S26T20R01(1320.0 ms)', 'S26T20R02(1280.0 ms)', 'S26T20R03(1560.0 ms)', 'S26T20R04(1280.0 ms)', 'S26T20R05(1020.0 ms)', 'S27T20R01(1660.0 ms)', 'S27T20R02(720.0 ms)', 'S27T20R03(1000.0 ms)', 'S27T20R04(1640.0 ms)', 'S27T20R05(240.0 ms)', 'S28T20R01(1540.0 ms)', 'S28T20R02(420.0 ms)', 'S28T20R03(420.0 ms)', 'S28T20R04(560.0 ms)', 'S28T20R05(520.0 ms)', 'S29T20R01(1740.0 ms)', 'S29T20R02(1360.0 ms)', 'S29T20R03(1640.0 ms)', 'S29T20R04(1860.0 ms)', 'S29T20R05(1980.0 ms)', 'S30T20R01(920.0 ms)', 'S30T20R02(820.0 ms)', 'S30T20R03(1200.0 ms)', 'S30T20R04(1260.0 ms)', 'S30T20R05(460.0 ms)', 'S31T20R01(900.0 ms)', 'S31T20R02(1360.0 ms)', 'S31T20R03(520.0 ms)', 'S31T20R04(520.0 ms)', 'S31T20R05(680.0 ms)', 'S32T20R01(1120.0 ms)', 'S32T20R02(720.0 ms)', 'S32T20R03(960.0 ms)', 'S32T20R04(1560.0 ms)', 'S32T20R05(840.0 ms)', 'S33T20R01(620.0 ms)', 'S33T20R02(480.0 ms)', 'S33T20R03(920.0 ms)', 'S33T20R04(520.0 ms)', 'S33T20R05(560.0 ms)', 'S35T20R01(680.0 ms)', 'S35T20R02(720.0 ms)', 'S35T20R03(780.0 ms)', 'S35T20R04(540.0 ms)', 'S35T20R05(680.0 ms)', 'S36T20R01(680.0 ms)', 'S36T20R02(720.0 ms)', 'S36T20R03(860.0 ms)', 'S36T20R04(820.0 ms)', 'S36T20R05(920.0 ms)', 'S37T20R01(960.0 ms)', 'S37T20R02(1180.0 ms)', 'S37T20R03(880.0 ms)', 'S37T20R04(680.0 ms)', 'S37T20R05(1060.0 ms)', 'S38T20R01(1400.0 ms)', 'S38T20R02(1600.0 ms)', 'S38T20R03(860.0 ms)', 'S38T20R04(520.0 ms)', 'S38T20R05(1100.0 ms)', 'S06T21R02(400.0 ms)', 'S06T21R03(260.0 ms)', 'S06T21R04(220.0 ms)', 'S07T21R01(520.0 ms)', 'S07T21R02(240.0 ms)', 'S07T21R03(460.0 ms)', 'S07T21R04(400.0 ms)', 'S07T21R05(460.0 ms)', 'S08T21R02(340.0 ms)', 'S08T21R03(300.0 ms)', 'S08T21R04(240.0 ms)', 'S08T21R05(280.0 ms)', 'S09T21R02(600.0 ms)', 'S09T21R03(740.0 ms)', 'S09T21R04(440.0 ms)', 'S10T21R01(420.0 ms)', 'S10T21R02(260.0 ms)', 'S10T21R03(600.0 ms)', 'S10T21R04(660.0 ms)', 'S10T21R05(400.0 ms)', 'S11T21R02(300.0 ms)', 'S11T21R03(300.0 ms)', 'S11T21R04(380.0 ms)', 'S12T21R02(340.0 ms)', 'S12T21R03(340.0 ms)', 'S12T21R04(440.0 ms)', 'S12T21R05(400.0 ms)', 'S12T21R06(380.0 ms)', 'S13T21R01(480.0 ms)', 'S13T21R02(260.0 ms)', 'S13T21R03(700.0 ms)', 'S13T21R05(920.0 ms)', 'S14T21R01(280.0 ms)', 'S14T21R03(240.0 ms)', 'S14T21R04(460.0 ms)', 'S15T21R01(260.0 ms)', 'S15T21R02(240.0 ms)', 'S15T21R03(480.0 ms)', 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'S26T21R03(440.0 ms)',

'S26T21R04(580.0 ms)', 'S26T21R05(480.0 ms)', 'S27T21R01(300.0 ms)', 'S27T21R02(400.0 ms)', 'S27T21R03(280.0 ms)', 'S28T21R01(240.0 ms)', 'S28T21R02(260.0 ms)', 'S28T21R03(320.0 ms)', 'S28T21R04(320.0 ms)', 'S28T21R05(360.0 ms)', 'S29T21R01(380.0 ms)', 'S29T21R02(380.0 ms)', 'S29T21R03(500.0 ms)', 'S29T21R04(360.0 ms)', 'S29T21R05(400.0 ms)', 'S30T21R01(500.0 ms)', 'S30T21R02(300.0 ms)', 'S30T21R03(320.0 ms)', 'S30T21R04(360.0 ms)', 'S30T21R05(460.0 ms)', 'S31T21R01(400.0 ms)', 'S31T21R02(440.0 ms)', 'S31T21R03(500.0 ms)', 'S31T21R04(360.0 ms)', 'S31T21R05(300.0 ms)', 'S32T21R01(760.0 ms)', 'S32T21R02(560.0 ms)', 'S32T21R03(540.0 ms)', 'S32T21R04(1000.0 ms)', 'S32T21R05(640.0 ms)', 'S33T21R01(400.0 ms)', 'S33T21R02(460.0 ms)', 'S33T21R03(320.0 ms)', 'S33T21R04(400.0 ms)', 'S33T21R05(360.0 ms)', 'S35T21R01(360.0 ms)', 'S35T21R02(320.0 ms)', 'S35T21R03(340.0 ms)', 'S35T21R04(480.0 ms)', 'S35T21R05(380.0 ms)', 'S36T21R01(300.0 ms)', 'S36T21R02(620.0 ms)', 'S36T21R03(380.0 ms)', 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'S20T22R04(480.0 ms)', 'S20T22R05(480.0 ms)', 'S20T22R06(400.0 ms)', 'S21T22R01(600.0 ms)', 'S21T22R02(600.0 ms)', 'S21T22R03(1000.0 ms)', 'S21T22R04(280.0 ms)', 'S21T22R05(820.0 ms)', 'S22T22R01(1020.0 ms)', 'S22T22R02(1160.0 ms)', 'S22T22R03(1420.0 ms)', 'S22T22R04(820.0 ms)', 'S22T22R05(620.0 ms)', 'S23T22R01(480.0 ms)', 'S23T22R02(500.0 ms)', 'S23T22R03(500.0 ms)', 'S23T22R04(460.0 ms)', 'S23T22R05(480.0 ms)', 'S24T22R01(540.0 ms)', 'S24T22R02(440.0 ms)', 'S24T22R03(480.0 ms)', 'S24T22R04(440.0 ms)', 'S24T22R05(360.0 ms)', 'S25T22R01(1260.0 ms)', 'S25T22R02(1220.0 ms)', 'S25T22R03(980.0 ms)', 'S25T22R04(1080.0 ms)', 'S25T22R05(840.0 ms)', 'S26T22R01(640.0 ms)', 'S26T22R02(520.0 ms)', 'S26T22R03(780.0 ms)', 'S26T22R04(340.0 ms)', 'S26T22R05(320.0 ms)', 'S27T22R01(440.0 ms)', 'S27T22R03(480.0 ms)', 'S27T22R04(360.0 ms)', 'S27T22R05(940.0 ms)', 'S28T22R01(1060.0 ms)', 'S28T22R02(500.0 ms)', 'S28T22R03(400.0 ms)', 'S28T22R04(380.0 ms)', 'S28T22R05(440.0 ms)', 'S29T22R01(720.0 ms)', 'S29T22R02(760.0 ms)', 'S29T22R03(1120.0 ms)', 'S29T22R04(740.0 ms)', 'S29T22R05(460.0 ms)', 'S30T22R01(560.0 ms)', 'S30T22R02(600.0 ms)', 'S30T22R03(1120.0 ms)', 'S30T22R04(740.0 ms)', 'S30T22R05(620.0 ms)', 'S31T22R01(420.0 ms)', 'S31T22R02(680.0 ms)', 'S31T22R03(480.0 ms)', 'S31T22R04(540.0 ms)', 'S31T22R05(520.0 ms)', 'S32T22R01(600.0 ms)', 'S32T22R02(1040.0 ms)', 'S32T22R03(560.0 ms)', 'S32T22R04(1200.0 ms)', 'S32T22R05(780.0 ms)', 'S33T22R01(440.0 ms)', 'S33T22R02(400.0 ms)', 'S33T22R03(360.0 ms)', 'S33T22R04(300.0 ms)', 'S33T22R05(320.0 ms)', 'S35T22R01(480.0 ms)', 'S35T22R02(680.0 ms)', 'S35T22R03(580.0 ms)', 'S35T22R04(320.0 ms)', 'S35T22R05(340.0 ms)', 'S36T22R01(340.0 ms)', 'S36T22R02(320.0 ms)', 'S36T22R03(400.0 ms)', 'S36T22R04(320.0 ms)', 'S36T22R05(320.0 ms)', 'S37T22R01(440.0 ms)', 'S37T22R02(360.0 ms)', 'S37T22R03(320.0 ms)', 'S37T22R04(500.0 ms)', 'S38T22R03(1100.0 ms)', 'S38T22R04(340.0 ms)', 'S38T22R05(780.0 ms)', 'S06T23R01(1500.0 ms)', 'S06T23R02(920.0 ms)', 'S06T23R03(1820.0 ms)', 'S06T23R04(1600.0 ms)',

'S06T23R05(1760.0 ms)', 'S07T23R01(720.0 ms)', 'S07T23R02(820.0 ms)', 'S07T23R03(2960.0 ms)', 'S07T23R04(1440.0 ms)', 'S07T23R05(300.0 ms)', 'S08T23R01(760.0 ms)', 'S08T23R02(960.0 ms)', 'S08T23R03(1220.0 ms)', 'S08T23R04(1200.0 ms)', 'S08T23R05(980.0 ms)', 'S09T23R01(800.0 ms)', 'S09T23R02(880.0 ms)', 'S09T23R03(860.0 ms)', 'S09T23R04(820.0 ms)', 'S09T23R05(880.0 ms)', 'S10T23R01(1100.0 ms)', 'S10T23R02(1180.0 ms)', 'S10T23R03(840.0 ms)', 'S10T23R04(580.0 ms)', 'S10T23R05(560.0 ms)', 'S11T23R01(660.0 ms)', 'S11T23R02(460.0 ms)', 'S11T23R03(680.0 ms)', 'S11T23R04(800.0 ms)', 'S11T23R05(1100.0 ms)', 'S12T23R01(560.0 ms)', 'S12T23R02(840.0 ms)', 'S12T23R03(520.0 ms)', 'S12T23R04(1020.0 ms)', 'S12T23R05(840.0 ms)', 'S13T23R01(620.0 ms)', 'S13T23R02(840.0 ms)', 'S13T23R03(880.0 ms)', 'S13T23R04(840.0 ms)', 'S13T23R05(700.0 ms)', 'S14T23R01(440.0 ms)', 'S14T23R02(560.0 ms)', 'S14T23R03(420.0 ms)', 'S14T23R04(660.0 ms)', 'S14T23R05(1140.0 ms)', 'S15T23R01(520.0 ms)', 'S15T23R02(560.0 ms)', 'S15T23R03(520.0 ms)', 'S15T23R04(600.0 ms)', 'S15T23R05(740.0 ms)', 'S16T23R01(520.0 ms)', 'S16T23R02(620.0 ms)', 'S16T23R03(580.0 ms)', 'S16T23R04(280.0 ms)', 'S16T23R05(520.0 ms)', 'S17T23R01(920.0 ms)', 'S17T23R02(1260.0 ms)', 'S17T23R03(1220.0 ms)', 'S17T23R04(1180.0 ms)', 'S17T23R05(980.0 ms)', 'S18T23R01(680.0 ms)', 'S18T23R03(520.0 ms)', 'S18T23R04(560.0 ms)', 'S18T23R05(740.0 ms)', 'S19T23R01(1040.0 ms)', 'S19T23R02(500.0 ms)', 'S19T23R03(540.0 ms)', 'S19T23R04(600.0 ms)', 'S19T23R05(940.0 ms)', 'S20T23R01(860.0 ms)', 'S20T23R02(620.0 ms)', 'S20T23R03(760.0 ms)', 'S20T23R04(800.0 ms)', 'S20T23R05(780.0 ms)', 'S21T23R02(640.0 ms)', 'S21T23R03(540.0 ms)', 'S21T23R04(360.0 ms)', 'S21T23R05(640.0 ms)', 'S22T23R01(880.0 ms)', 'S22T23R02(1060.0 ms)', 'S22T23R03(1100.0 ms)', 'S22T23R04(780.0 ms)', 'S22T23R05(720.0 ms)', 'S23T23R01(780.0 ms)', 'S23T23R02(980.0 ms)', 'S23T23R03(920.0 ms)', 'S23T23R04(560.0 ms)', 'S23T23R05(800.0 ms)', 'S24T23R01(600.0 ms)', 'S24T23R02(740.0 ms)', 'S24T23R03(720.0 ms)', 'S24T23R05(680.0 ms)', 'S25T23R01(480.0 ms)', 'S25T23R02(580.0 ms)', 'S25T23R03(760.0 ms)', 'S25T23R04(760.0 ms)', 'S25T23R05(760.0 ms)', 'S26T23R01(740.0 ms)', 'S26T23R02(1640.0 ms)', 'S26T23R03(1080.0 ms)', 'S26T23R04(1220.0 ms)', 'S26T23R05(700.0 ms)', 'S27T23R01(1260.0 ms)', 'S27T23R02(540.0 ms)', 'S27T23R03(860.0 ms)', 'S27T23R04(840.0 ms)', 'S28T23R01(940.0 ms)', 'S28T23R02(800.0 ms)', 'S28T23R04(680.0 ms)', 'S28T23R05(900.0 ms)', 'S29T23R01(940.0 ms)', 'S29T23R02(1840.0 ms)', 'S29T23R03(840.0 ms)', 'S29T23R04(720.0 ms)', 'S29T23R05(2160.0 ms)', 'S30T23R01(940.0 ms)', 'S30T23R02(1160.0 ms)', 'S30T23R03(740.0 ms)', 'S30T23R04(980.0 ms)', 'S30T23R05(1020.0 ms)', 'S31T23R01(740.0 ms)', 'S31T23R02(540.0 ms)', 'S31T23R03(580.0 ms)', 'S31T23R04(960.0 ms)', 'S31T23R05(760.0 ms)', 'S32T23R01(760.0 ms)', 'S32T23R02(640.0 ms)', 'S32T23R03(600.0 ms)', 'S32T23R04(1080.0 ms)', 'S32T23R05(1600.0 ms)', 'S33T23R01(520.0 ms)', 'S33T23R03(680.0 ms)', 'S33T23R04(560.0 ms)', 'S33T23R05(680.0 ms)', 'S35T23R01(820.0 ms)', 'S35T23R02(820.0 ms)', 'S35T23R03(980.0 ms)', 'S35T23R04(580.0 ms)', 'S35T23R05(760.0 ms)', 'S36T23R01(780.0 ms)', 'S36T23R02(720.0 ms)', 'S36T23R03(720.0 ms)', 'S36T23R04(840.0 ms)', 'S36T23R05(780.0 ms)', 'S37T23R01(420.0 ms)', 'S37T23R02(540.0 ms)', 'S37T23R03(1380.0 ms)', 'S37T23R04(540.0 ms)', 'S37T23R05(620.0 ms)', 'S38T23R01(320.0 ms)', 'S38T23R02(460.0 ms)', 'S38T23R03(640.0 ms)', 'S38T23R04(600.0 ms)', 'S38T23R05(480.0 ms)', 'S06T24R01(2080.0 ms)', 'S06T24R02(1120.0 ms)', 'S06T24R03(1480.0 ms)', 'S06T24R04(1900.0 ms)', 'S06T24R05(960.0 ms)', 'S07T24R01(880.0 ms)', 'S07T24R02(1000.0 ms)', 'S07T24R03(820.0 ms)', 'S07T24R04(1180.0 ms)', 'S07T24R05(760.0 ms)', 'S08T24R01(920.0 ms)', 'S08T24R02(960.0 ms)', 'S08T24R03(900.0 ms)', 'S08T24R04(860.0 ms)', 'S08T24R05(780.0 ms)', 'S09T24R01(720.0 ms)', 'S09T24R02(680.0 ms)', 'S09T24R03(420.0 ms)', 'S09T24R04(740.0 ms)', 'S09T24R05(580.0 ms)', 'S10T24R01(640.0 ms)', 'S10T24R02(1120.0 ms)', 'S10T24R03(1020.0 ms)', 'S10T24R04(840.0 ms)', 'S10T24R05(420.0 ms)', 'S11T24R01(880.0 ms)', 'S11T24R02(660.0 ms)', 'S11T24R03(660.0 ms)', 'S11T24R04(640.0 ms)', 'S11T24R05(520.0 ms)', 'S12T24R01(480.0 ms)', 'S12T24R02(620.0 ms)', 'S12T24R03(640.0 ms)', 'S12T24R04(940.0 ms)', 'S12T24R05(220.0 ms)', 'S13T24R01(660.0 ms)', 'S13T24R02(720.0 ms)', 'S13T24R03(620.0 ms)', 'S13T24R04(780.0 ms)', 'S13T24R05(700.0 ms)', 'S14T24R01(980.0 ms)', 'S14T24R02(840.0 ms)', 'S14T24R03(1080.0 ms)', 'S14T24R04(840.0 ms)', 'S14T24R05(880.0 ms)', 'S15T24R01(740.0 ms)', 'S15T24R02(660.0 ms)', 'S15T24R03(580.0 ms)', 'S15T24R04(460.0 ms)', 'S15T24R05(520.0 ms)', 'S16T24R01(620.0 ms)', 'S16T24R02(580.0 ms)', 'S16T24R03(740.0 ms)', 'S16T24R04(760.0 ms)', 'S16T24R05(560.0 ms)', 'S17T24R01(740.0 ms)', 'S17T24R02(660.0 ms)', 'S17T24R03(1400.0 ms)', 'S17T24R04(1340.0 ms)', 'S17T24R05(1020.0 ms)', 'S18T24R01(860.0 ms)', 'S18T24R02(820.0 ms)', 'S18T24R03(620.0 ms)', 'S18T24R04(640.0 ms)', 'S18T24R05(520.0

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ms)', 'S12T30R05(700.0 ms)', 'S13T30R01(360.0 ms)', 'S13T30R02(280.0 ms)', 'S13T30R05(260.0 ms)', 'S14T30R01(500.0 ms)', 'S14T30R02(880.0 ms)', 'S14T30R03(680.0 ms)', 'S14T30R04(800.0 ms)', 'S14T30R05(720.0 ms)', 'S15T30R01(340.0 ms)', 'S15T30R02(260.0 ms)', 'S15T30R03(280.0 ms)', 'S15T30R05(380.0 ms)', 'S16T30R01(320.0 ms)', 'S16T30R02(340.0 ms)', 'S16T30R03(240.0 ms)', 'S16T30R04(240.0 ms)', 'S17T30R01(400.0 ms)', 'S17T30R02(480.0 ms)', 'S17T30R03(420.0 ms)', 'S17T30R04(460.0 ms)', 'S17T30R05(500.0 ms)', 'S18T30R01(440.0 ms)', 'S18T30R02(740.0 ms)', 'S18T30R03(440.0 ms)', 'S18T30R04(460.0 ms)', 'S18T30R05(420.0 ms)', 'S19T30R01(400.0 ms)', 'S19T30R02(320.0 ms)', 'S19T30R03(540.0 ms)', 'S19T30R04(240.0 ms)', 'S19T30R05(420.0 ms)', 'S20T30R02(380.0 ms)', 'S20T30R03(340.0 ms)', 'S20T30R04(480.0 ms)', 'S20T30R05(400.0 ms)', 'S21T30R01(540.0 ms)', 'S21T30R02(420.0 ms)', 'S21T30R03(420.0 ms)', 'S21T30R04(620.0 ms)', 'S21T30R05(420.0 ms)', 'S22T30R01(340.0 ms)', 'S22T30R02(300.0 ms)', 'S22T30R03(340.0 ms)', 'S22T30R04(460.0 ms)', 'S22T30R05(460.0 ms)', 'S23T30R01(320.0 ms)', 'S23T30R02(400.0 ms)', 'S23T30R03(460.0 ms)', 'S23T30R04(360.0 ms)', 'S23T30R05(460.0 ms)', 'S24T30R01(560.0 ms)', 'S24T30R03(600.0 ms)', 'S24T30R05(420.0 ms)', 'S25T30R01(440.0 ms)', 'S25T30R02(580.0 ms)', 'S25T30R03(520.0 ms)', 'S25T30R04(560.0 ms)', 'S25T30R05(480.0 ms)', 'S26T30R04(400.0 ms)', 'S26T30R05(200.0 ms)', 'S27T30R01(420.0 ms)', 'S27T30R02(500.0 ms)', 'S27T30R03(700.0 ms)', 'S27T30R04(460.0 ms)', 'S27T30R05(620.0 ms)', 'S28T30R01(340.0 ms)', 'S28T30R02(380.0 ms)', 'S28T30R03(320.0 ms)', 'S28T30R04(300.0 ms)', 'S28T30R05(360.0 ms)', 'S29T30R01(580.0 ms)', 'S29T30R02(500.0 ms)', 'S29T30R03(660.0 ms)', 'S29T30R04(460.0 ms)', 'S29T30R05(520.0 ms)', 'S30T30R01(440.0 ms)', 'S30T30R02(400.0 ms)', 'S30T30R03(520.0 ms)', 'S30T30R04(560.0 ms)', 'S30T30R05(420.0 ms)', 'S31T30R01(460.0 ms)', 'S31T30R02(520.0 ms)', 'S31T30R03(420.0 ms)', 'S31T30R04(520.0 ms)', 'S31T30R05(500.0 ms)', 'S32T30R01(500.0 ms)', 'S32T30R02(500.0 ms)', 'S32T30R03(420.0 ms)', 'S32T30R04(380.0 ms)', 'S32T30R05(380.0 ms)', 'S33T30R01(400.0 ms)', 'S33T30R02(360.0 ms)', 'S33T30R03(320.0 ms)', 'S33T30R04(360.0 ms)', 'S33T30R05(480.0 ms)', 'S35T30R01(440.0 ms)', 'S35T30R02(400.0 ms)', 'S35T30R03(600.0 ms)', 'S35T30R04(360.0 ms)', 'S35T30R05(520.0 ms)', 'S36T30R01(500.0 ms)', 'S36T30R02(380.0 ms)', 'S36T30R03(500.0 ms)', 'S36T30R04(480.0 ms)', 'S36T30R05(460.0 ms)', 'S37T30R01(340.0 ms)', 'S37T30R02(380.0 ms)', 'S37T30R03(300.0 ms)', 'S37T30R04(200.0 ms)', 'S37T30R05(300.0 ms)', 'S38T30R01(260.0 ms)', 'S38T30R02(560.0 ms)', 'S38T30R03(360.0 ms)', 'S38T30R04(300.0 ms)', 'S38T30R05(380.0 ms)', 'S06T31R01(700.0 ms)', 'S06T31R02(380.0 ms)', 'S06T31R03(520.0 ms)', 'S06T31R04(500.0 ms)', 'S06T31R05(1000.0 ms)', 'S07T31R02(600.0 ms)', 'S07T31R03(520.0 ms)',
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'S33T34R03(840.0 ms)', 'S33T34R04(820.0 ms)', 'S33T34R05(620.0 ms)', 'S35T34R01(360.0 ms)', 'S35T34R02(380.0 ms)', 'S35T34R04(300.0 ms)', 'S35T34R05(280.0 ms)', 'S36T34R01(460.0 ms)', 'S36T34R02(200.0 ms)', 'S36T34R03(300.0 ms)', 'S36T34R04(440.0 ms)', 'S36T34R05(240.0 ms)', 'S37T34R01(740.0 ms)', 'S37T34R02(680.0 ms)', 'S37T34R03(780.0 ms)', 'S37T34R04(740.0 ms)', 'S37T34R05(740.0 ms)', 'S38T34R03(260.0 ms)', 'S38T34R04(380.0 ms)', 'S38T34R05(240.0 ms)']

Graph of missed files