

num_layers: 2

Red ESR value indicates better than previous hidden_size. Green means better.

```
"num_layers": 2
"hidden_size": 8
epoch=0258_ESR_0.003652
epoch=0280_ESR_0.003572
epoch=0281_ESR_0.003537
last_epoch_0348
```

Ran a second run at a later stage. Pretty much identical result.

```
"num_layers": 2
"hidden_size": 9
epoch=0337_ESR_0.004399
epoch=0343_ESR_0.004062
epoch=0350_ESR_0.004262
last_epoch_0422
```

```
"num_layers": 2
"hidden_size": 10
epoch=0168_ESR_0.008042
epoch=0242_ESR_0.008189
epoch=0243_ESR_0.008207
last_epoch_0343
```

```
"num_layers": 2
"hidden_size": 11
epoch=0155_ESR_0.004409
epoch=0163_ESR_0.004423
epoch=0174_ESR_0.004234
last_epoch_0278
```

```
"num_layers": 2
"hidden_size": 12
epoch=0227_ESR_0.00355
epoch=0232_ESR_0.003653
epoch=0264_ESR_0.00365
last_epoch_0382
```

```
"num_layers": 2
"hidden_size": 13
epoch=0213_ESR_0.004717
epoch=0252_ESR_0.004607
epoch=0267_ESR_0.004602
last_epoch_0381
```

"num_layers": 2
"hidden_size": 14
epoch=0190_ESR_0.003249
epoch=0212_ESR_0.003246
epoch=0251_ESR_0.003278
last_epoch_0449

"num_layers": 2
"hidden_size": 15
epoch=0094_ESR_0.005551
epoch=0109_ESR_0.005003
epoch=0116_ESR_0.005265
last_epoch_0175

"num_layers": 2
"hidden_size": 16
epoch=0023_ESR_0.020620
epoch=0052_ESR_0.008801
epoch=0110_ESR_0.005344
last_epoch_0171

"num_layers": 2
"hidden_size": 17
epoch=0156_ESR_0.002390
epoch=0162_ESR_0.002405
epoch=0171_ESR_0.002351
last_epoch_0236

"num_layers": 2
"hidden_size": 18
epoch=0122_ESR_0.003505
epoch=0123_ESR_0.003392
epoch=0150_ESR_0.003475
last_epoch_0200

"num_layers": 2
"hidden_size": 19
epoch=0164_ESR_0.002197
epoch=0169_ESR_0.002179
epoch=0176_ESR_0.002066
last_epoch_0226

```
"num_layers": 2
"hidden_size": 20
epoch=0099_ESR_0.004025
epoch=0108_ESR_0.004656
epoch=0112_ESR_0.003923
last_epoch_0162
```

```
"num_layers": 2
"hidden_size": 21
epoch=0241_ESR_0.0008937
epoch=0243_ESR_0.0009569
epoch=0247_ESR_0.000751 - major improvement
last_epoch_0297
```

```
"num_layers": 2
"hidden_size": 21
epoch=0241_ESR_0.0008937
epoch=0243_ESR_0.0009569
epoch=0247_ESR_0.000751 - major improvement
last_epoch_0297
```

Second run at a later stage. Identical result up to epoch 297 but then continued with further epochs that showed no further improvement.

```
"num_layers": 2
"hidden_size": 22
epoch=0082_ESR_0.003547
epoch=0089_ESR_0.003251
epoch=0090_ESR_0.003167
last_epoch_0167
```

```
"num_layers": 2
"hidden_size": 23
epoch=0183_ESR_0.001515 - larger than 2/21 though
epoch=0195_ESR_0.001548
epoch=0200_ESR_0.001532
last_epoch_0300
```

```
"num_layers": 2
"hidden_size": 24
epoch=0106_ESR_0.002332
epoch=0126_ESR_0.002351
epoch=0128_ESR_0.002010
last_epoch_0185
```

```
"num_layers": 2
"hidden_size": 25
epoch=0180_ESR_0.001451
epoch=0182_ESR_0.001750
epoch=0187_ESR_0.001577
last_epoch_0257
```

```
"num_layers": 2
"hidden_size": 26
epoch=0111_ESR_0.002821
epoch=0118_ESR_0.002343
epoch=0119_ESR_0.002567
last_epoch_0181
```

```
"num_layers": 2
"hidden_size": 27
epoch=0135_ESR_0.001875
epoch=0147_ESR_0.001655 - larger than 2/25 though
epoch=0148_ESR_0.001847
last_epoch_0216
```

```
"num_layers": 2
"hidden_size": 28
epoch=0365_ESR_0.0009483 - something good has happened
epoch=0376_ESR_0.00103
epoch=0382_ESR_0.001029
last_epoch_0399 (was unfortunately the limit. Increased in next increment)
```

```
"num_layers": 2
"hidden_size": 29
epoch=0257_ESR_0.001472
epoch=0264_ESR_0.00157
epoch=0313_ESR_0.001605
last_epoch_0413
```

```
"num_layers": 2
"hidden_size": 30
epoch=0207_ESR_0.00225
epoch=0209_ESR_0.002222
epoch=0210_ESR_0.00244
last_epoch_0310
```

```
"num_layers": 2  
"hidden_size": 31  
epoch=0292_ESR_0.003284  
epoch=0303_ESR_0.003061  
epoch=0311_ESR_0.003321  
last_epoch_0411
```