

5_6th_April_Update

1. Inference run was done in the following fashion:

a. Decoder.up5.ConvB

The inference was done on 5 images on my local machine.

Runtime = 15hr 15min

```
time_taken for in 28 / 32 in batch 4 = 345.9657475948334
time_taken for in 29 / 32 in batch 4 = 347.1038718223572
time_taken for in 30 / 32 in batch 4 = 346.0606245994568
time_taken for in 31 / 32 in batch 4 = 345.3297815322876
100%|████████████████████████████████████████| 1/1 [15:15:15<00:00, 54915.45s/it]
      a1,      a2,      a3,      rel,      rms,      log_10
      0.5895,    0.8237,    0.9272,    0.2575,    0.6047,    0.1082
Test time 54915.45264720917 s
```

b. Decoder.up5.ConvA

Running inference on google Colab, in parallel with the local machine, is not possible as the runtime is getting disconnected automatically after 7 hours of run.

Hence the inference run has been split in the following fashion on my local machine.

1) img 1 - local - (runtime = 7hrs 38 min)

```
time_taken for in 28 / 32 in batch 0 = 830.3314561843872
time_taken for in 29 / 32 in batch 0 = 828.6927947998047
time_taken for in 30 / 32 in batch 0 = 831.1260032653809
time_taken for in 31 / 32 in batch 0 = 828.7552571296692
100%|████████████████████████████████████████| 1/1 [7:38:33<00:00, 27513.31s/it]
      a1,      a2,      a3,      rel,      rms,      log_10
      0.3294,    0.6925,    0.9149,    0.4362,    0.5186,    0.1473
Test time 27513.311338424683 s
```

2) img 2 - local - (runtime = 7hrs 28min)

```
time_taken for in 28 / 32 in batch 0 = 826.5204734802246
time_taken for in 29 / 32 in batch 0 = 830.3483810424805
time_taken for in 30 / 32 in batch 0 = 835.2717573642731
time_taken for in 31 / 32 in batch 0 = 831.6871526241302
100%|██████████████████████████████████████████| 1/1 [7:28:07<00:00, 26887.28s/it]
      a1,          a2,         a3,        rel_int(n) rms,       log_10
    0.5951,     0.7863,     0.9665,     0.2163, int( 0.6350,     0.1041
# print(rows)
Test time 26887.340658426285 s
```

3) Img 3 - local - (runtime = 7hrs 26 min)

```
time_taken for in 28 / 32 in batch 0 = 827.2674355506897
time_taken for in 29 / 32 in batch 0 = 825.1854150295258
time_taken for in 30 / 32 in batch 0 = 828.6328873634338
time_taken for in 31 / 32 in batch 0 = 829.4173316955566
100%|██████████████████████████████████████| 1/1 [7:26:39<00:00, 26799.93s/it]
      a1,          a2,          a3,         rel,         rms,        log_10
    0.5024,       0.6588,       0.7153,       0.3148,       1.1864,       0.1666

Testptime 26799.987221479416 s
```

4) img 4 - local - (runtime = 7hrs 45min)

```
time_taken for in 29 / 32 in batch 0 = 883.1455013751984
time_taken for in 30 / 32 in batch 0 = 848.8436319828033
time_taken for in 31 / 32 in batch 0 = 868.2101585865021
100%|██████████████████████████████████████| 1/1 [7:45:48<00:00, 27948.34s/it]
      a1,          a2,          a3,         rel,          rms,        log_10
    0.8331,       0.9836,       0.9998,       0.1392,       0.2647,       0.0579

Test time 27948.343804836273 s
```

The 5th image is currently under run; will soon update on the effective error metrics value in the next update.

The constant update to the error metric values are noted down in the google sheet:

https://docs.google.com/spreadsheets/d/1tmXCuR8P1yGrYK8_bC07wBkrz_x6DhPI-a2OtFICZnw/edit?usp=sharing