{Dataflow} Analyzer Report

Introduction :

This report generated by CNN-EIA. The goal of this report is analysing the dataflow of the given

Machine Learning Model. The analysis was done on these inputs :

Memory Architecture :

```
{
mem_levels :            3
capacity :              [16.0, 16384.0, 536870912.0]
access_cost :           [0.05, 3.84, 200]
static_cost :           [0, 0, 0]
parallel_count :        [256, 1, 1]
mac_capacity :          0
parallel_mode :         [1, 0, 0]
parallel_cost :         [2]
capacity_scale :        [2, 2]
access_cost_scale :     [2, 1.25]
explore_points :        [5, 4]
precision :             16
array_dim :             None
utilization_threshold : 0.0
replication :           True
invalid_underutilized : True
memory_partitions :     [[0, 0, 0], [0, 0, 0], [0, 0, 0], [None, None, None]]
 }
```

Layer Architecture :

```
{
fmap_width :            1
fmap_height :           1
input_fmap_channel :    500
output_fmap_channel :   250
window_width :          1
window_height :         1
batch_size :            16
stride_width :          1
stride_height :         1
layer_info :            [1, 1, 500, 250, 1, 1, 16, 1, 1]
layer_name :            mlp_fc3_batch16
 }
```

Glossary :

- Cache Levels : (L0, L1, L2)
  The smallest index the nearest to CPU.

- Loop Names : (FX, FY, OX, OY, OC, IC, ON)