

```

#pragma lssd cores 2
#pragma reuse-scratchpad weights
void nn_layer(int num_in, int num_out,
              const float* weights,
              const float* in, float* out) {
    for (int j = 0; j < num_out; ++j) {
        for (int i = 0; i < num_in; ++i) {
            out[j] += weights[j][i] * in[i];
        }
        out[j] = sigmoid(out[j]);
    }
}

```

Insert Data
Transfer

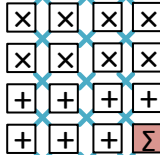
Scratchpad

Spatial Fabric

D\$

Low-
power
Core

Input Interf.



Output Interf.

Loop Parallelize, Insert Comm., Modulo Schedule

Resize Computation (Unroll), Extract Computation Subgraph, Spatial Schedule