







RF=16 data weights block_factor 8 tmpmult mult acc n_in 16 RF 16 block_factor 8 multiplier_limit 8

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ReuseLoop:
for (ir = 0; ir < RF; ir++)
MultLoop:
for (im = 0; im < block_factor; im++)
w_index = ir + im * RF;
d_index = w_index * n_in
if (w_index >= n_in * n_out) continue;
tmpmult[im] = data[d_index ]* weights[w_index]

ResetMul:
for (im = 0; im < multiplier_limit; im++)
mult[im] = 0;

AccumLoop1:
for (im = 0; im < block_factor; im++)
w_index = ir + im * RF;
out_index = w_index / multfactor;
if (out_index >= multiplier_limit) continue;
mult[out_index] += tmpmult[im];

AccumLoop2:
for (im = 0; im < multiplier_limit; im++)
out_index = im / multscale;
acc[out_index] += mult[im];
```

