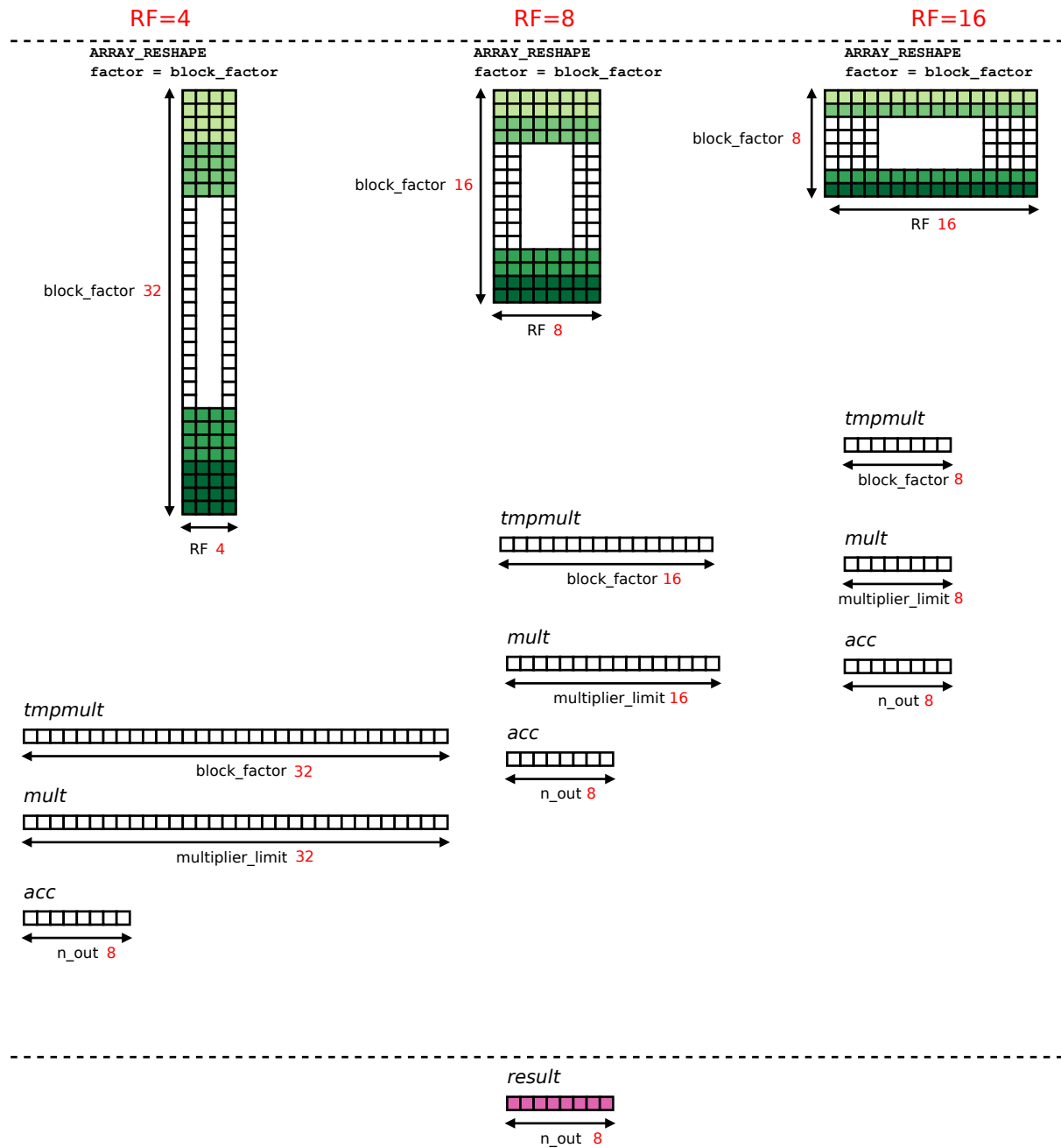
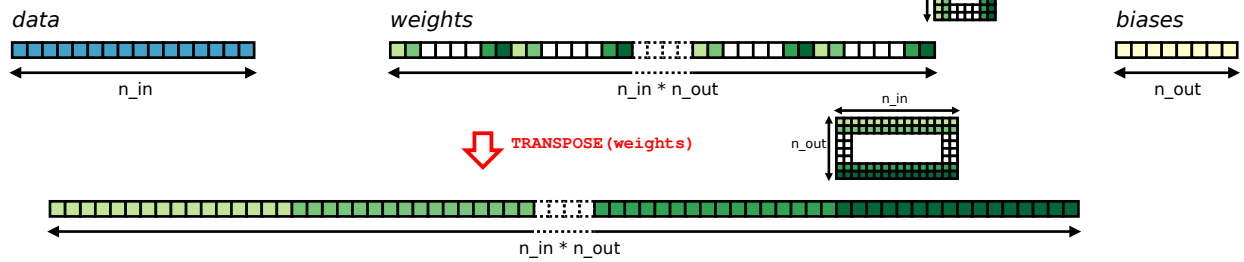


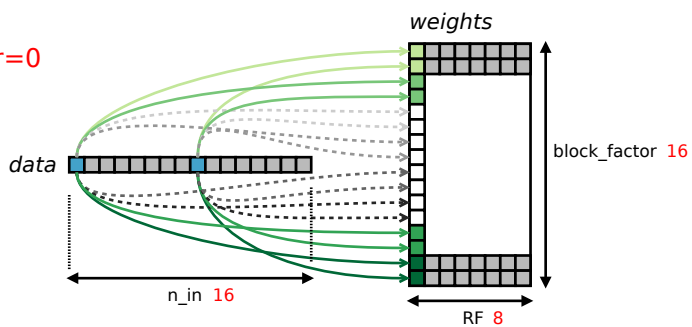
$n_{in} = 16$
 $n_{out} = 8$

$$block_factor = \left\lceil \frac{n_{in} * n_{out}}{RF} \right\rceil \quad multiplier_limit = \left\lceil \frac{n_{in} * n_{out}}{\min(n_{in}, RF)} \right\rceil$$

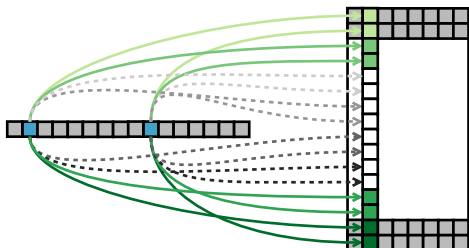


RF=8

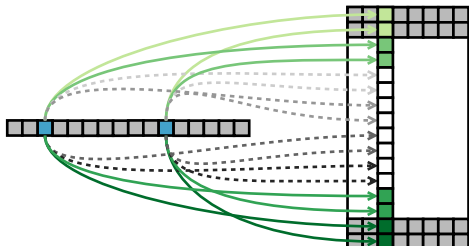
ir=0



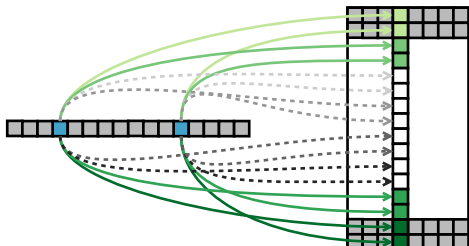
ir=1



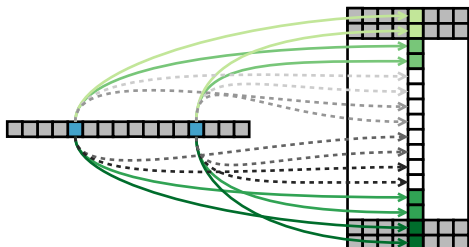
ir=2



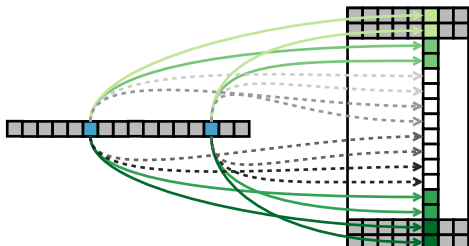
ir=3



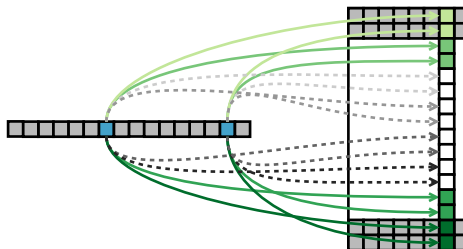
ir=4



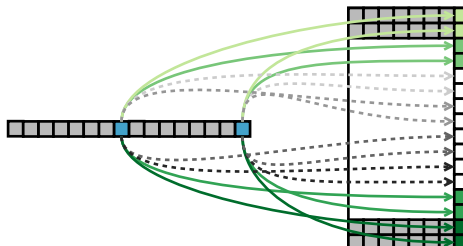
ir=5



ir=6

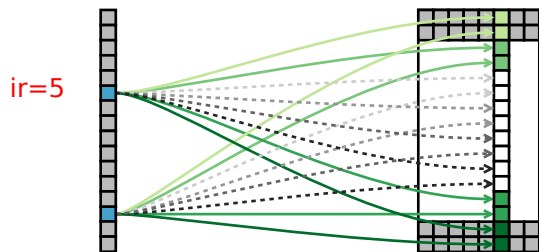
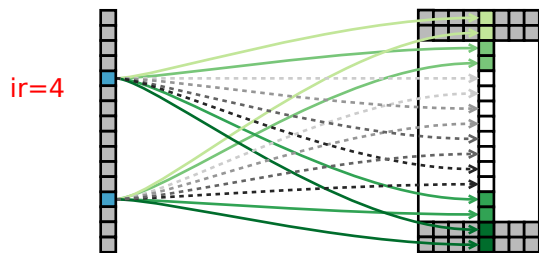
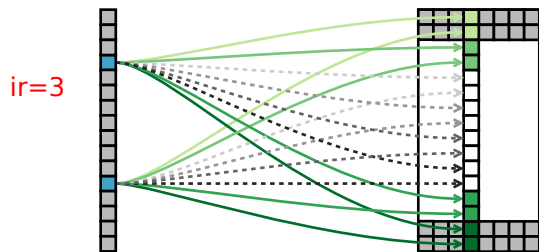
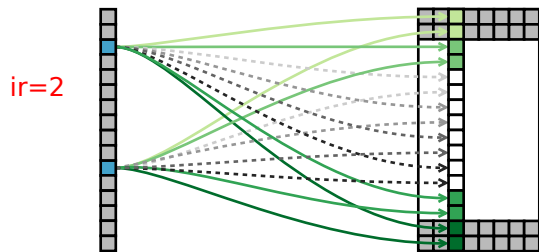
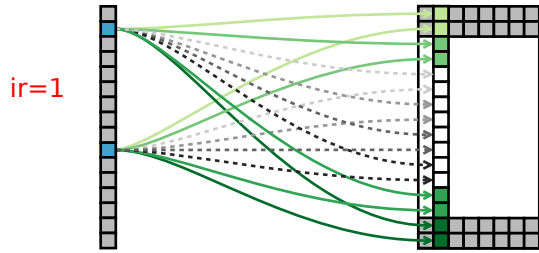
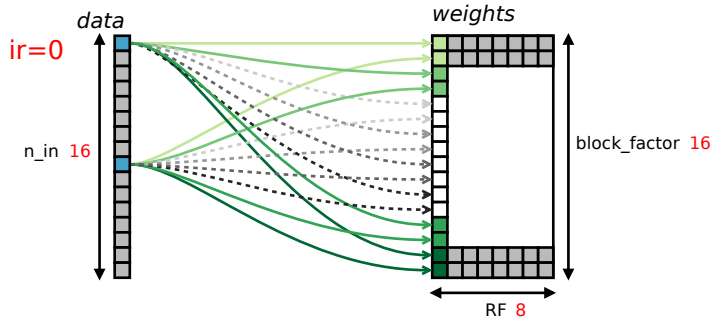


ir=7

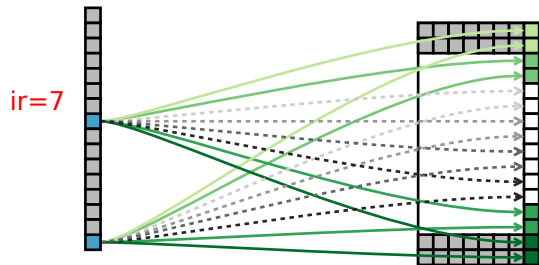
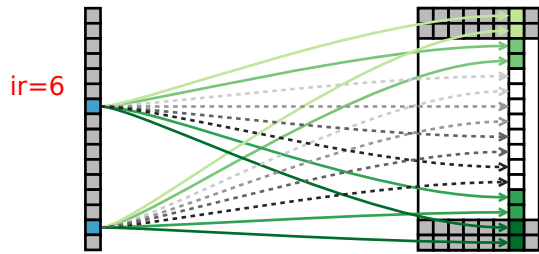


```
MultiLoop:
for (ir = 0; ir < IR; ir++)
  for (im = 0; im < block_factor; im++)
    w_index = ir + im * RF;
    d_index = w_index % n_in;
    if (w_index >= n_in * n_out) continue;
    tmpmult[im] = data[d_index] * weights[w_index]
```

RF=8

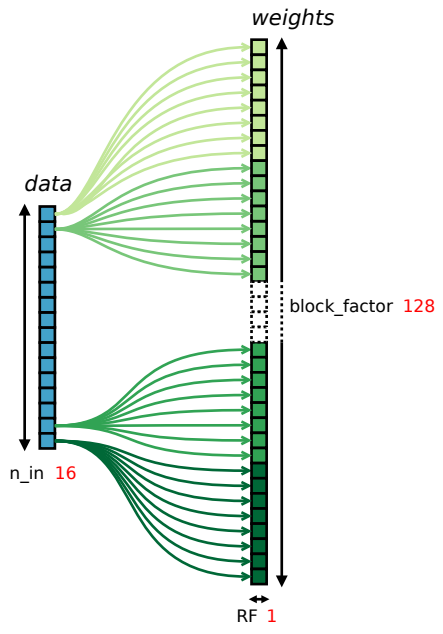
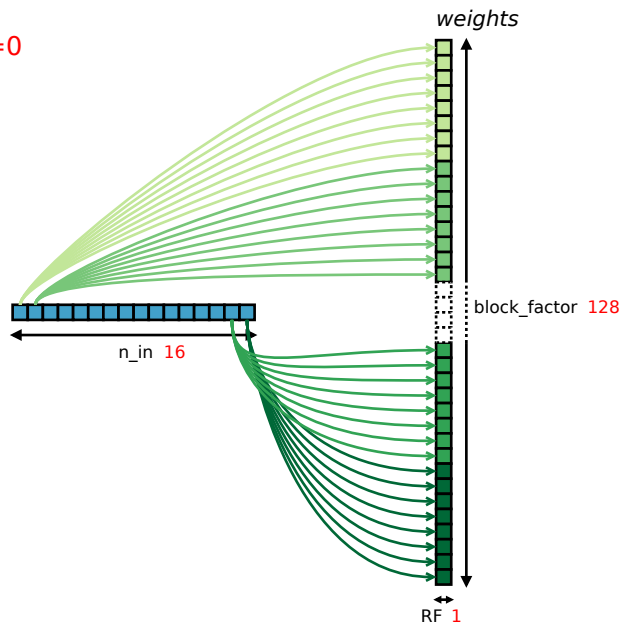


```
MultiLoop:
for (ir = 0; ir < IR; ir++)
  for (im = 0; im < block_factor; im++)
    w_index = ir + im * RF;
    d_index = w_index % n_in;
    if (w_index >= n_in * n_out) continue;
    tmpmult[im] = data[d_index] * weights[w_index]
```



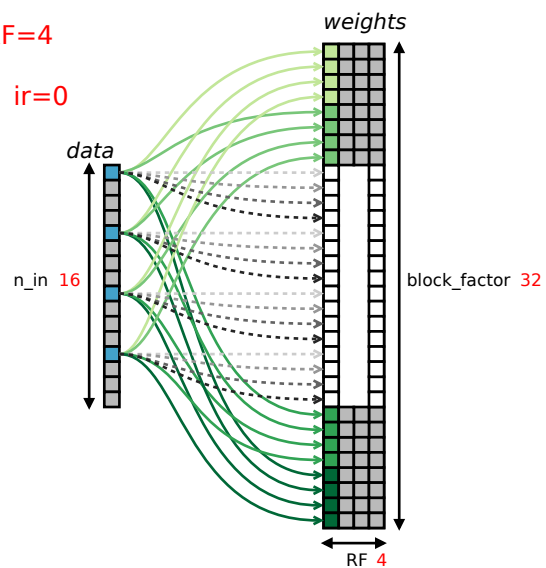
RF=1

ir=0



RF=4

ir=0



ir=1

