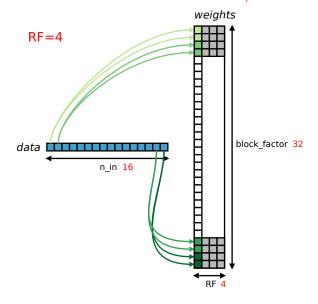
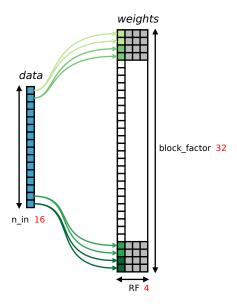
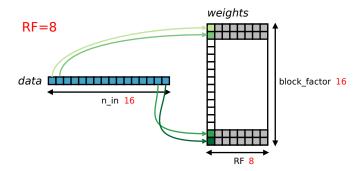
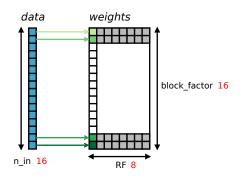


Two different visualizations of MultLoop

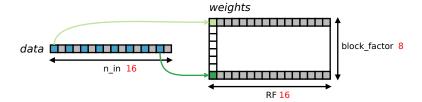








RF=16

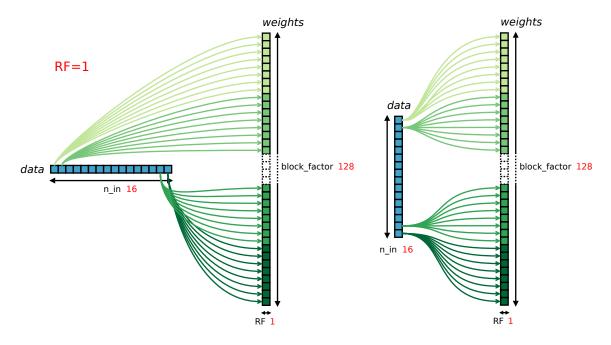


```
MultLoop:
for (ir = 0; ir < IR; ir++)
  for (im = 0; im < block_factor; im++)
    w_index = ir + im * RF; // [im][ir]
    d_index = w_index % n_in
    if (w_index >= n_in * n_out) continue;
    tmpmult[im] = data[d_index ]* weights[w_index]

### Discrete:

### Application of the properties of the propertie
```

Two extreme situations: (RF = 1, block_factor = 128) and (RF = 128, block_factor = 1)



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

RF=128

