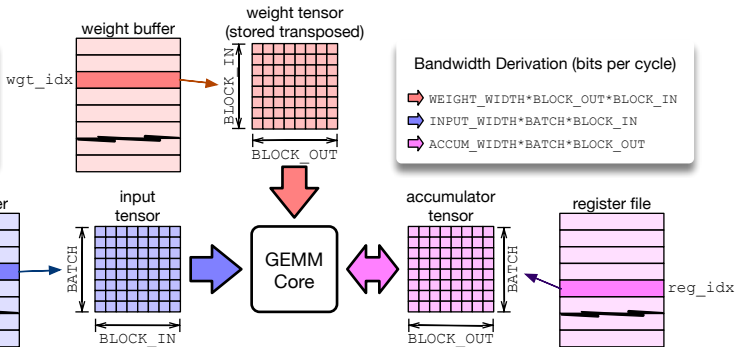


Data Types

- $\text{int}\langle\text{WEIGHT_WIDTH}\rangle$
- $\text{int}\langle\text{INPUT_WIDTH}\rangle$
- $\text{int}\langle\text{ACCUM_WIDTH}\rangle$



GEMM Instruction Pseudo-Code:

```

for i0 in range(0, end0):
    for i1 in range(0, end1):
        for uop_idx in range (uop_bgn, uop_end):
            x, y, z = decode_gemm_indices(uop_buffer[upc])
            reg_idx = i0 * x0 + i1 * x1 + x
            inp_idx = i0 * y0 + i1 * y1 + y
            wgt_idx = i0 * z0 + i1 * z1 + z
            reg_file[reg_idx] += GEMM(inp_buff[inp_idx], wgt_buff[wgt_idx])
    
```

LOG_ACC_BUFF_DEPTH LOG_INP_BUFF_DEPTH LOG_WGT_BUFF_DEPTH

