dot<<2,4>>(a, b, c)

blockDim.x = 4
gridDim.x = 2

cacheIndex = threadIdx.x = 0
blockIdx.x = 0
i = 0

Block 0
cache[0] = 123
cache[1] = 54
cache[2] = 22
cache[3] = 40

i = 0, so end the pairwise sum.

The result for block 0 is cache[0] = 123.