

PE0: $Y[0][0] = A0 * W[0][0]$ $Y[0][0] = B0 * W[0][1]$ $Y[0][0] = C0 * W[1][0]$ $Y[0][0] = D0 * G[1][1]$
 PE1: $Y[0][1] = B0 * W[0][0]$ $Y[0][1] = A1 * W[0][1]$ $Y[0][1] = D0 * W[1][0]$ $Y[0][1] = C1 * G[1][1]$
 PE2: $Y[1][0] = C0 * W[0][0]$ $Y[1][0] = D0 * W[0][1]$ $Y[1][0] = A2 * W[1][0]$ $Y[1][0] = B2 * G[1][1]$
 PE3: $Y[1][1] = D0 * W[0][0]$ $Y[1][1] = C1 * W[0][1]$ $Y[1][1] = B2 * W[1][0]$ $Y[1][1] = A3 * G[1][1]$

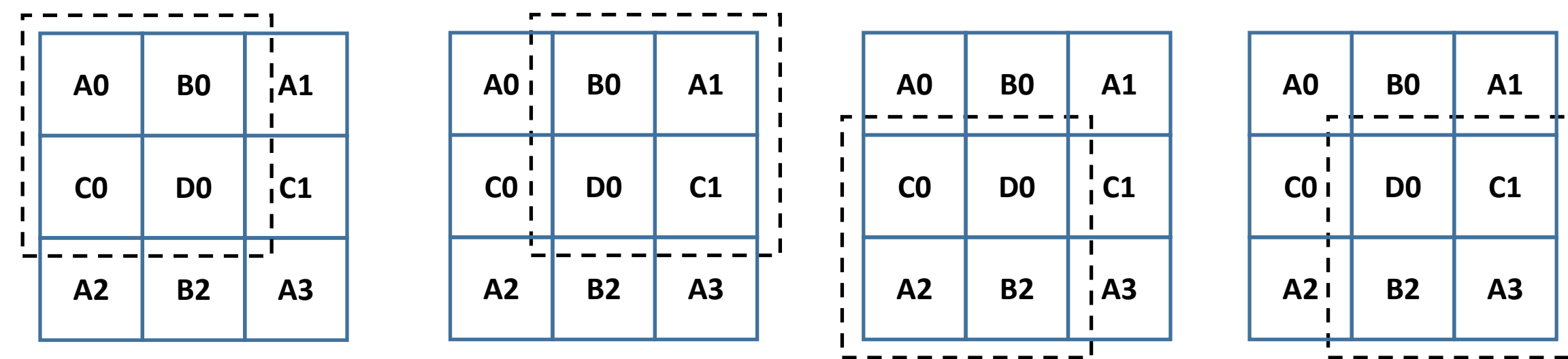
Cycle 0

Cycle 1

Cycle 2

Cycle 3

(a)



PE0: $W[0][0] = A0 * G[0][0]$ $W[0][1] = B0 * G[0][0]$ $W[1][0] = C0 * G[0][0]$ $W[1][1] = D0 * G[0][0]$
 PE1: $W[0][0] = B0 * G[0][1]$ $W[0][1] = A1 * G[0][1]$ $W[1][0] = D0 * G[0][1]$ $W[1][1] = C1 * G[0][1]$
 PE2: $W[0][0] = C0 * G[1][0]$ $W[0][1] = D0 * G[1][0]$ $W[1][0] = A2 * G[1][0]$ $W[1][1] = B2 * G[1][0]$
 PE3: $W[0][0] = D0 * G[1][1]$ $W[0][1] = C1 * G[1][1]$ $W[1][0] = B2 * G[1][1]$ $W[1][1] = A3 * G[1][1]$

Cycle 0

Cycle 1

Cycle 2

Cycle 3

(b)