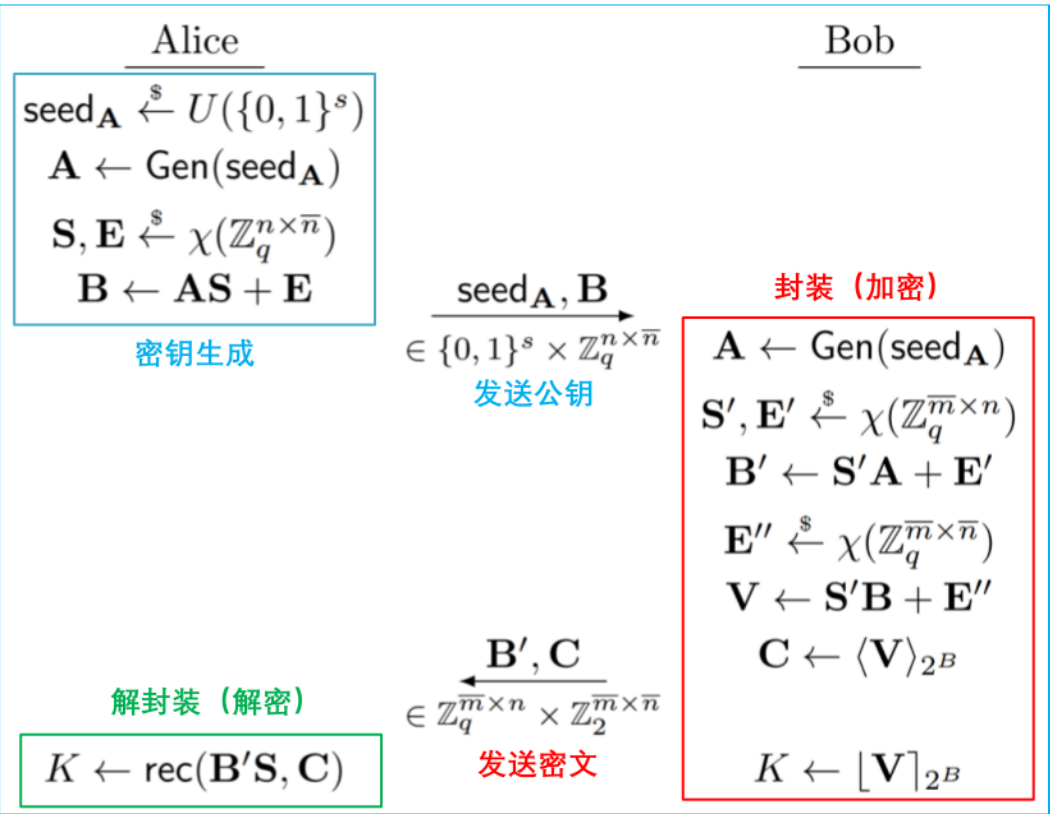
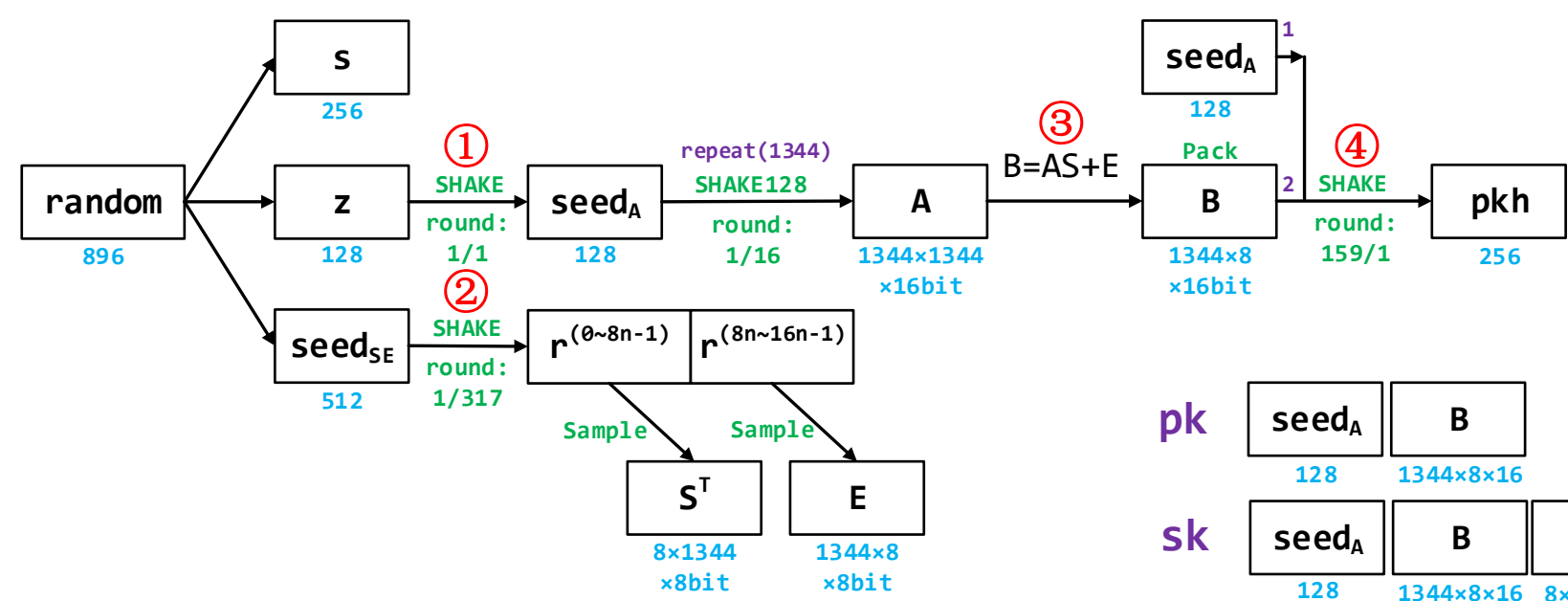


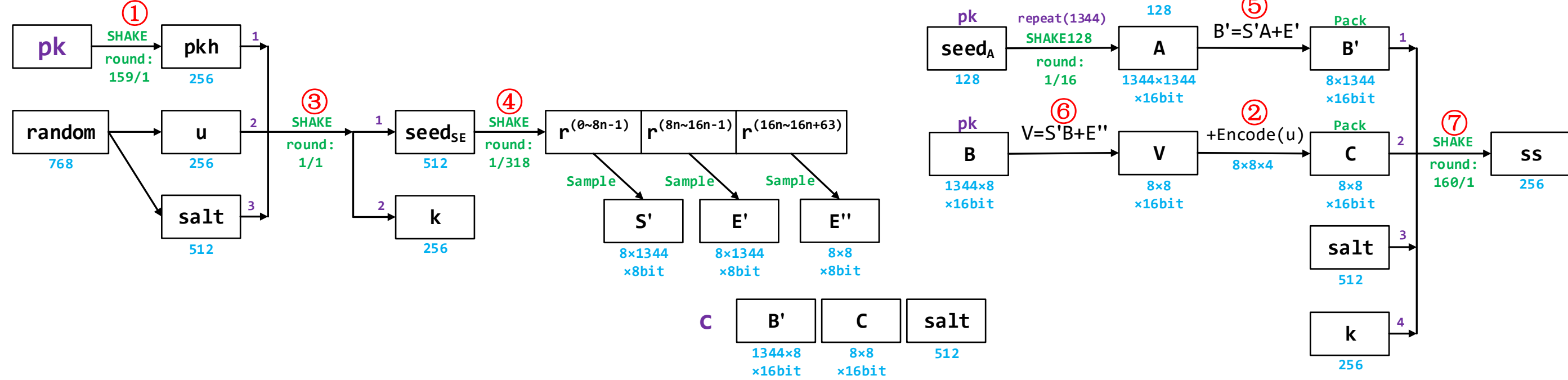
FrodoKEM-1344

SHAKE
round:
absorb rounds/squeeze rounds

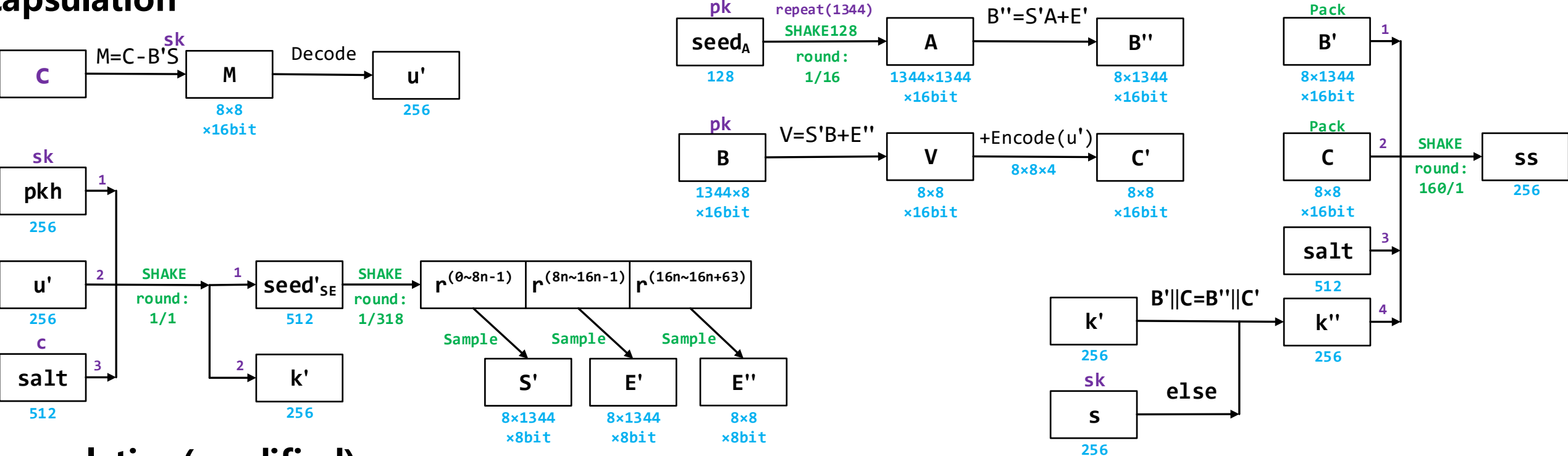
Key generation



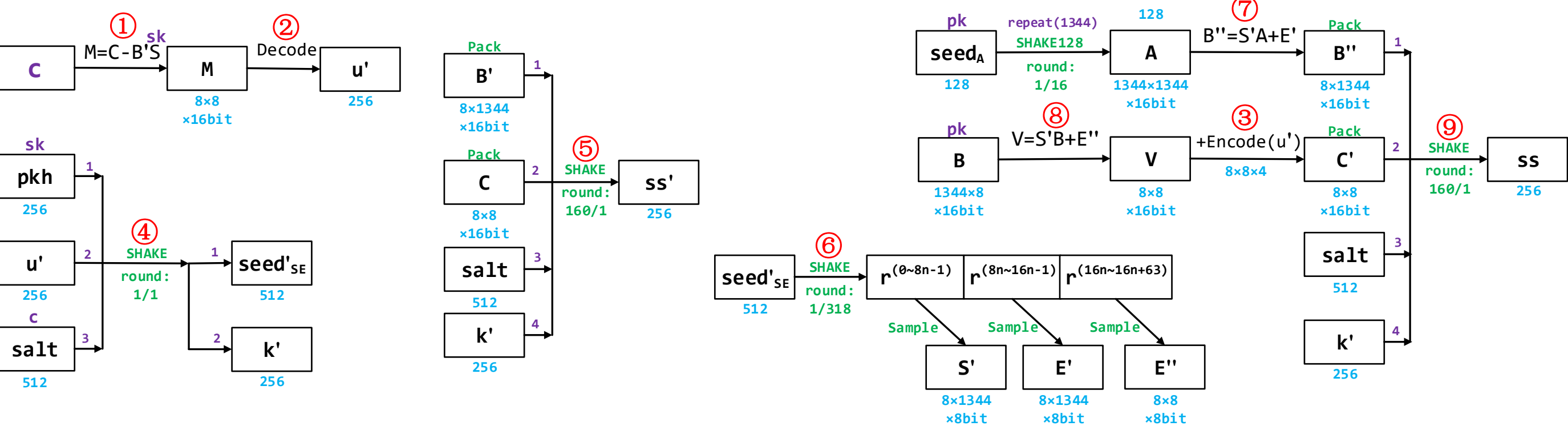
Encapsulation

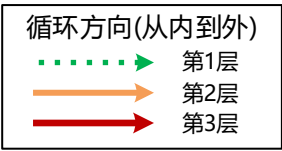


Decapsulation



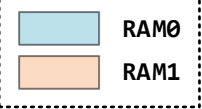
Decapsulation(modified)





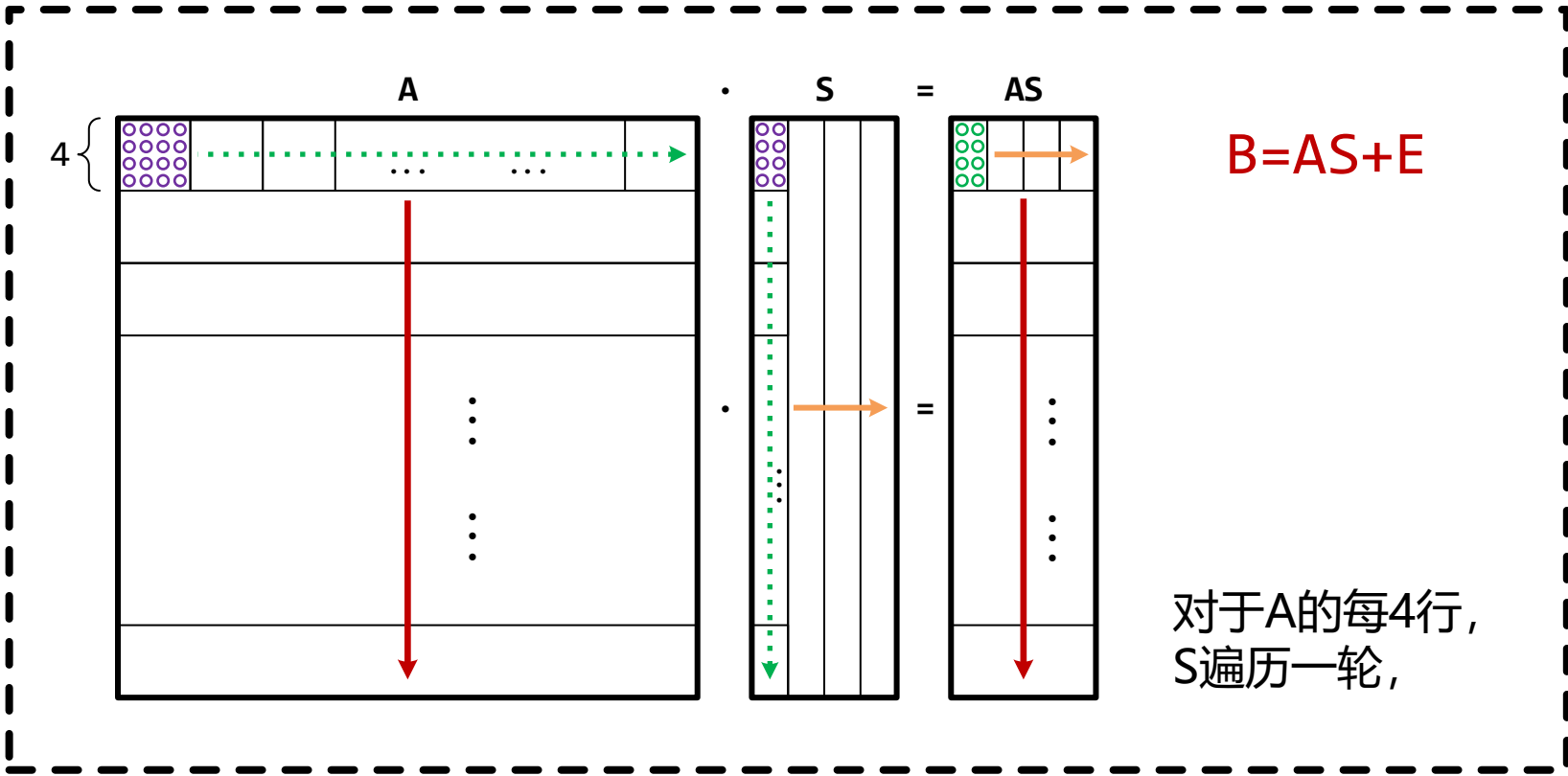
版本v4用到了两个4x4的乘法器阵列

地址安排

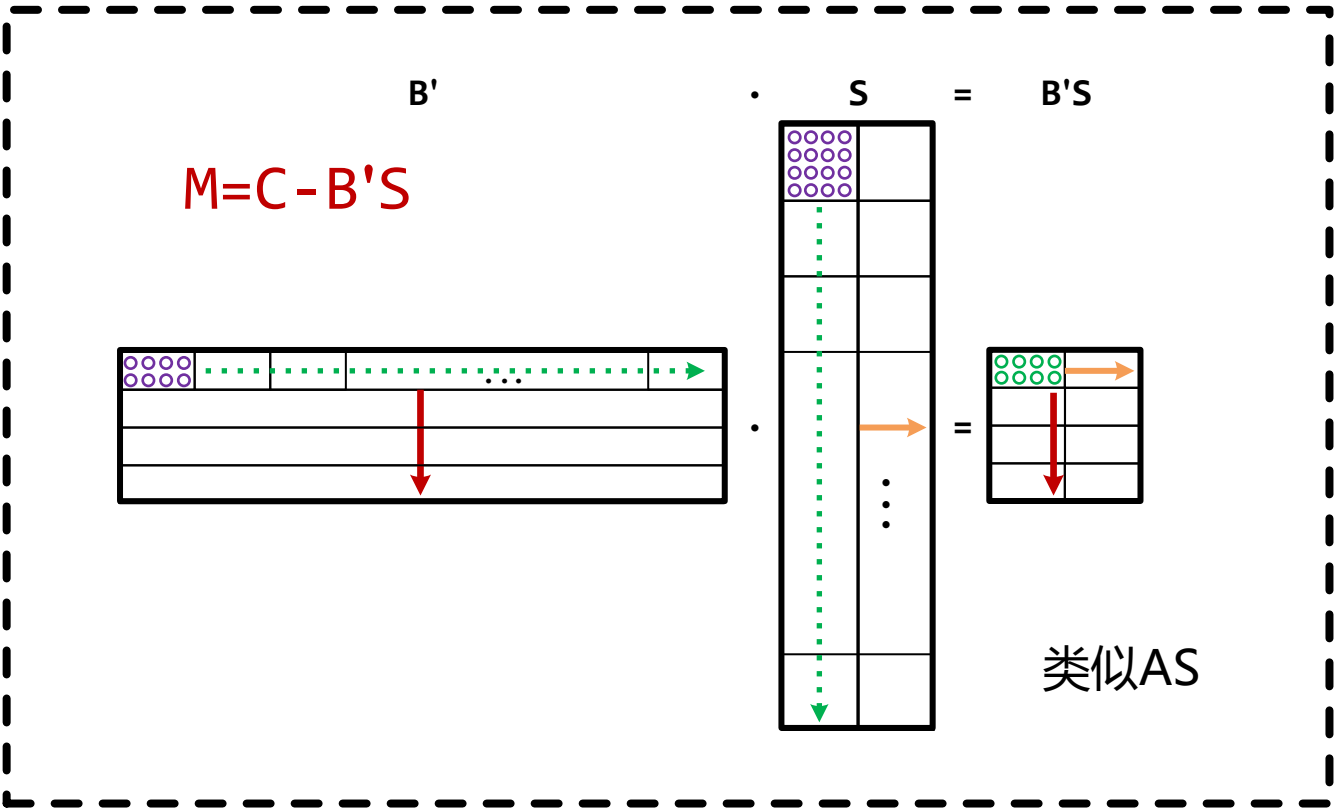
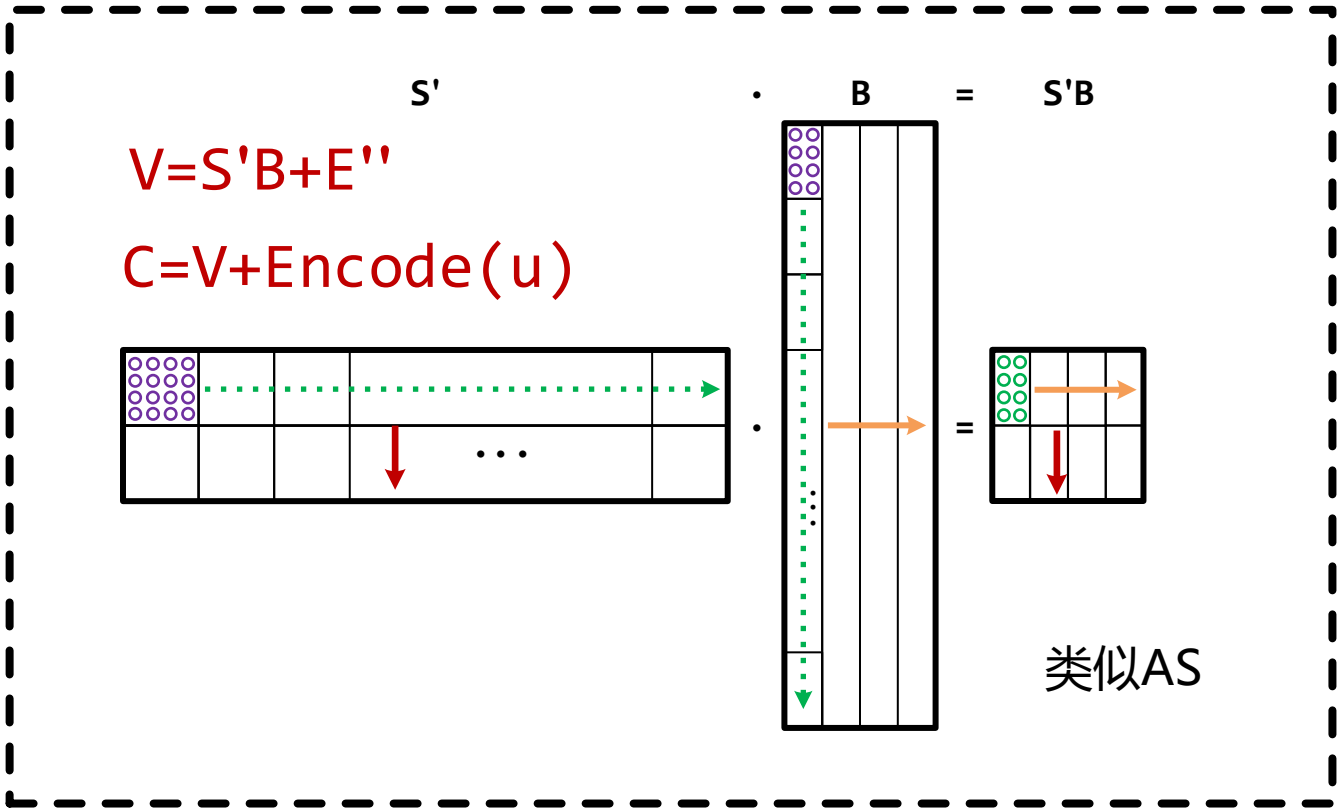
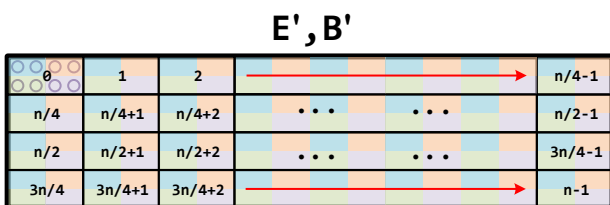
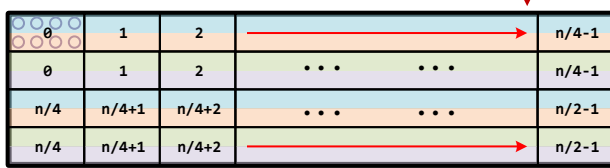
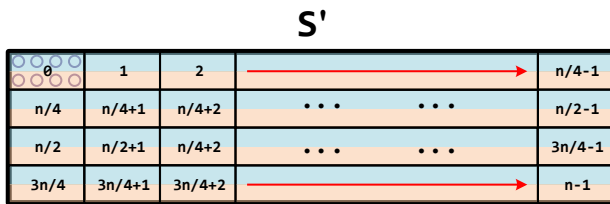
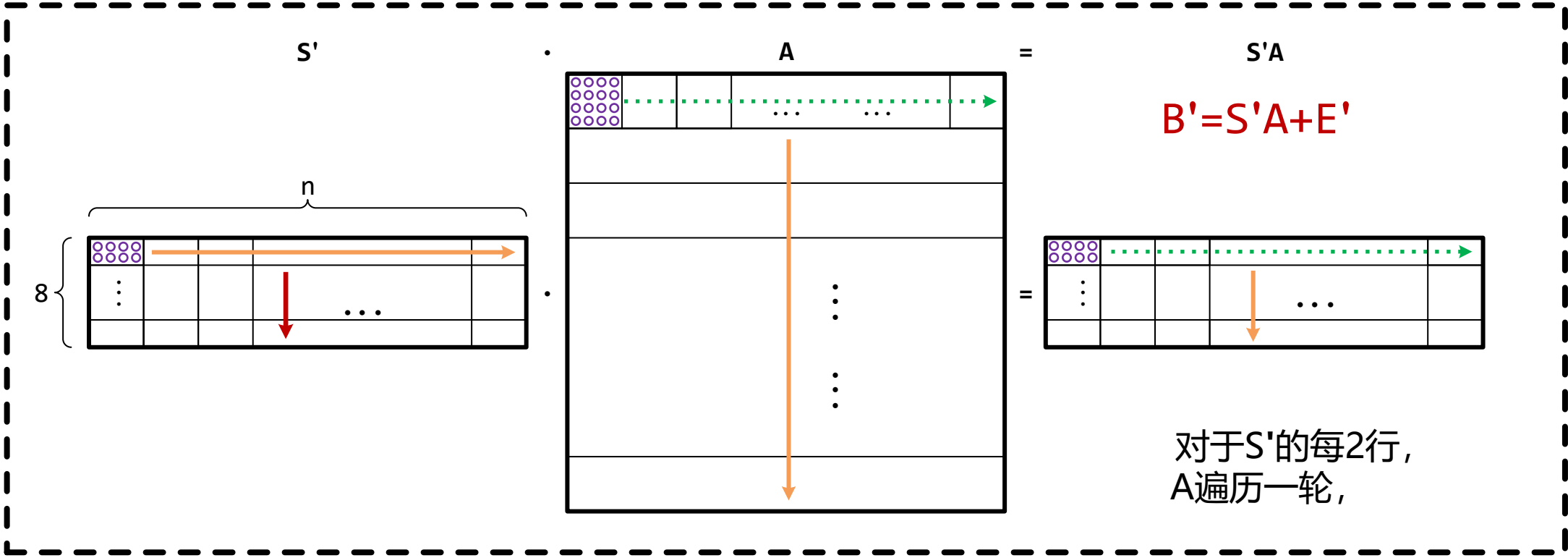
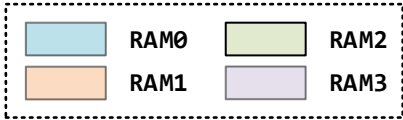
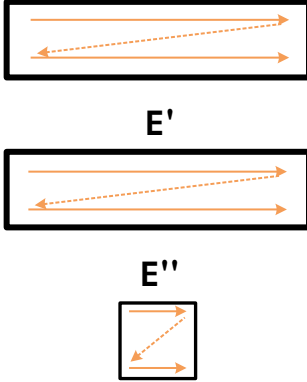
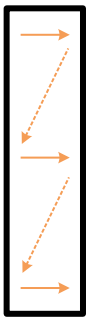
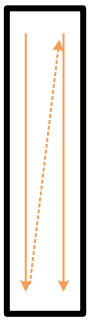
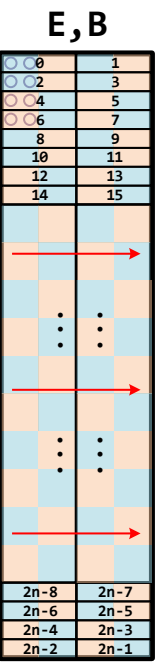
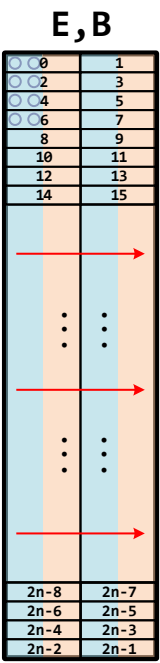
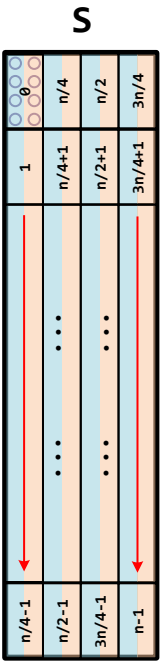


矩阵生成

矩阵生成

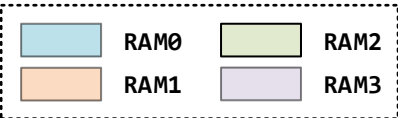


S, B sp-ram 4032*32 x2
S', B' dp-ram 2016*32 x4

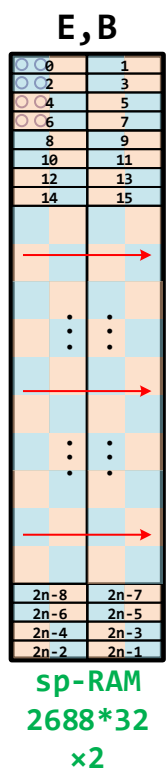
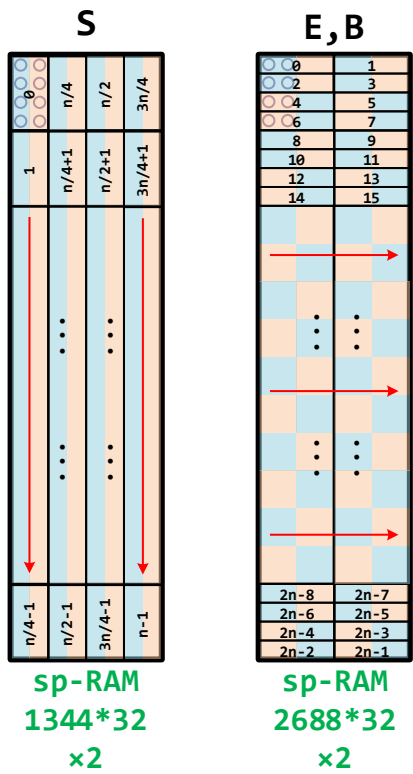


sp-ram 4032*32x2

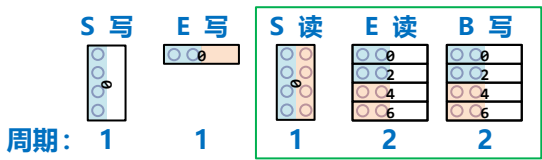
读写时序



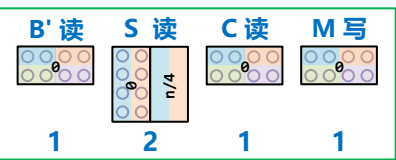
dp-ram 2024*32x4



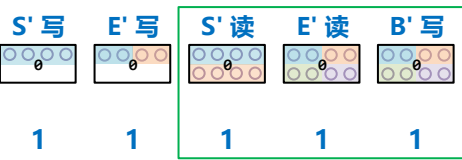
$B=E+AS$



$M=C-B'S$



$B'=E'+S'A$



$C=En(u)+E''+S'B$

