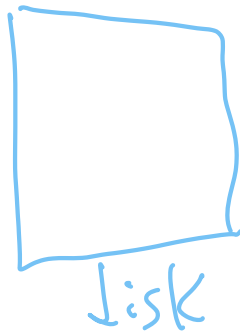


active memory set



for $I = 1$ to 4000:

for $J = 1$ to 4000:

$\{ A[I, J] = A[I, J] \cdot B[I, J]$

$\{ B[I, J] = C[J, N - I + 1] \cdot A[J, I]$

request $A[I, J]$ read $A[I, \dots]$ +2

request $B[I, J]$ read $B[I, \dots]$ +2

changed $A[I, J]$ → write +2

request $C[J, N - I + 1]$ read $C[J, \dots]$

request $A[J, I]$ read $A[J, \dots]$

changed $B[I, J]$ → write +2

$I, J+1$

request $A[I, J+1]$

request $B[I, J+1]$

changed $A[I, J+1]$

request $C[J+1, N-I+1]$ read $C[J+1, \dots]$ ⁺¹

request $A[J+1, I]$ read $A[J+1, \dots]$ ⁺¹

changed $B[I, J+1]$

$I, J+2$

~~2~~ 4000

8000

$$8000 + 8 = 8008 \text{ } \del{4000}$$

$$= 32,032,000$$