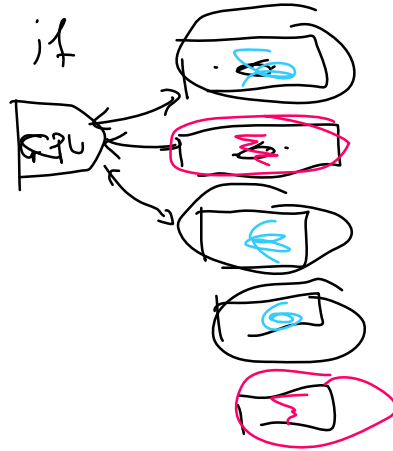
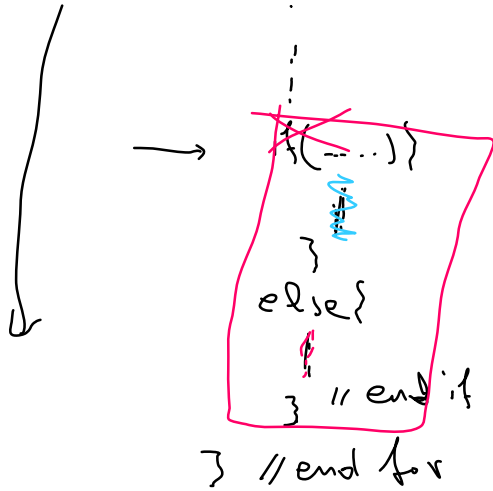


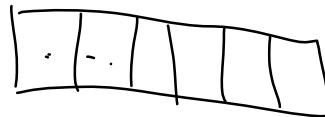
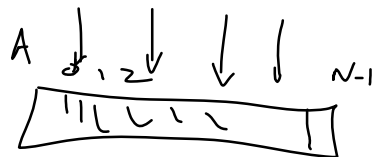
APX/ZYME 15:15

KAAH XRONIA

#pragma omp parallel for
for(i=0, i<...; i++)

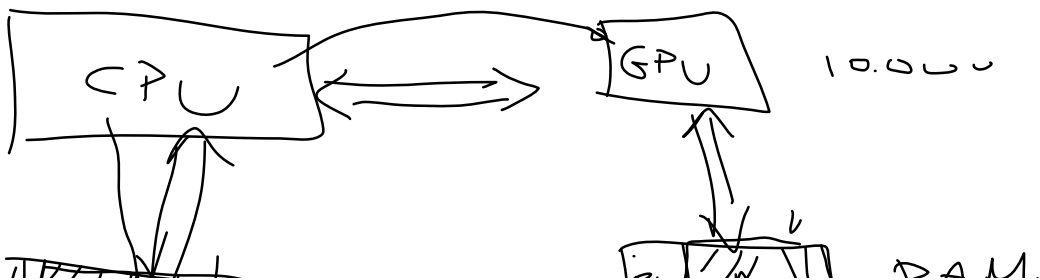


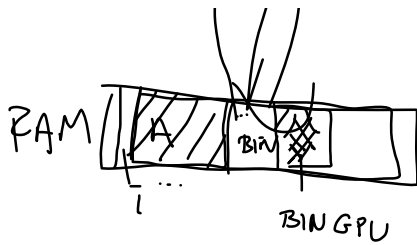
4:25



HOST

GPU





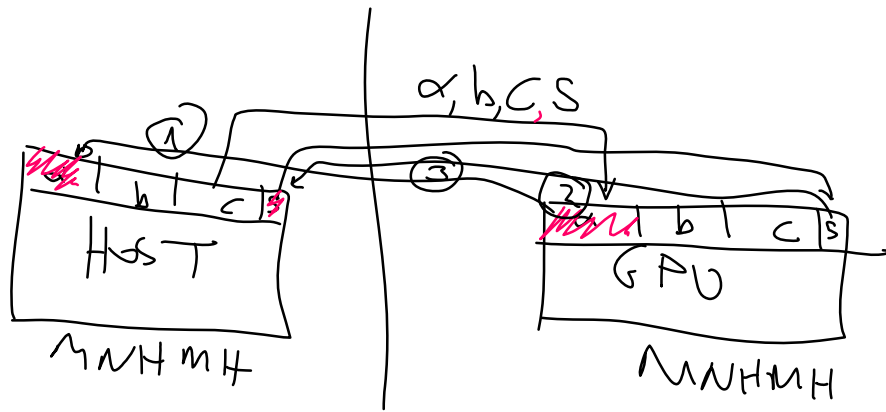
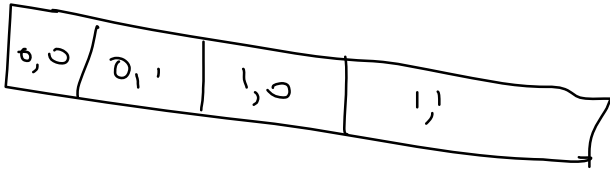
```
#pragma omp parallel for collapse(2)
for (i=0; i<K; i++)
    reduction(+:s)
```

```
for (j=0; j<M; j++)
```

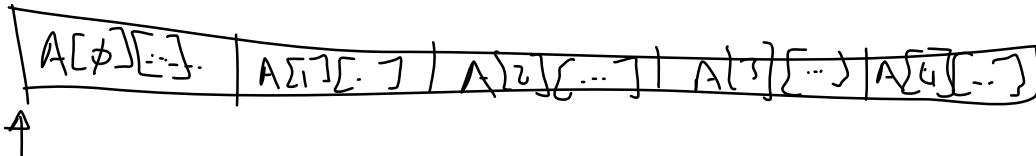
$$s += A[j][i]$$

A(?,?)

A[?][?]



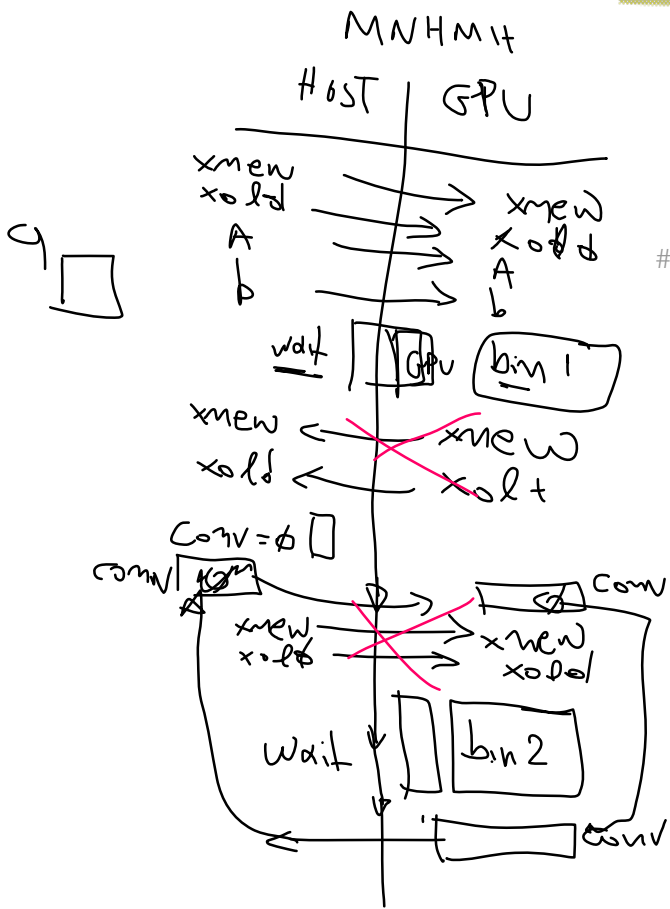
A[s][s]



$$A[3][2] \leftarrow 3N+2$$

$$A[i][j] \leftarrow A[i \cdot N + j]$$

15.20



#pragma omp target enter data map(to:xnew[0:Ndim],xold[0:Ndim])

#pragma omp target exit data map(xnew[0:Ndim],xold[0:Ndim])

CPU

```

if (e > 0)
    x += a - b;
else
    x -= a - b;

```

GPU

```

-> mask[i] = (a[i] > b[i])?
    1 : -1;
-> x[i] += mask[i] * (a[i] -
    b[i]),

```