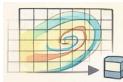


Input Field $U_i \in R^{N \times c}$

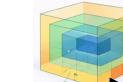
Rollout Plan Compiler

$$P = (\sigma, S1:K, H, w1:K, \rho)$$

Ordering



2D



3D

Stage Partition



S_{1-k}, w_{1+k}

Context Size



H

...

Lower to Lookup Tables

What to Execute

Staged Rewrite Executor (Online Inference)

- Working Buffer Y
- Gather Context
- Causal Masking
- Scatter Updates

Stage 1



Stage 2



Stage 3



Masking

Local Predictor G_0

- Bounded Context
- Shared Model

Updated Field $\mathbf{Y} = U_{t+k}$