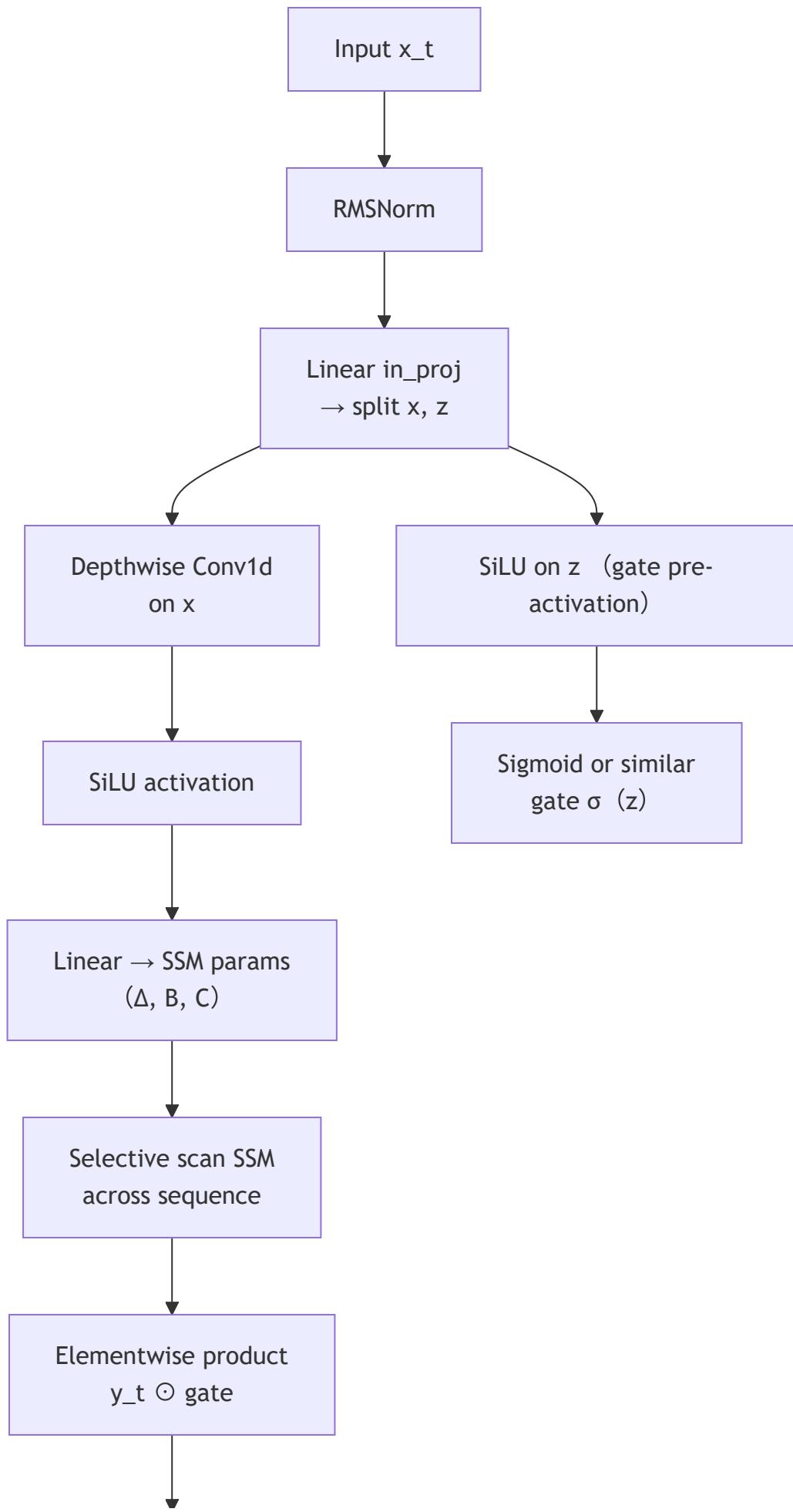
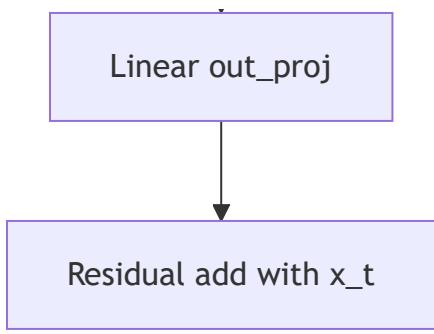
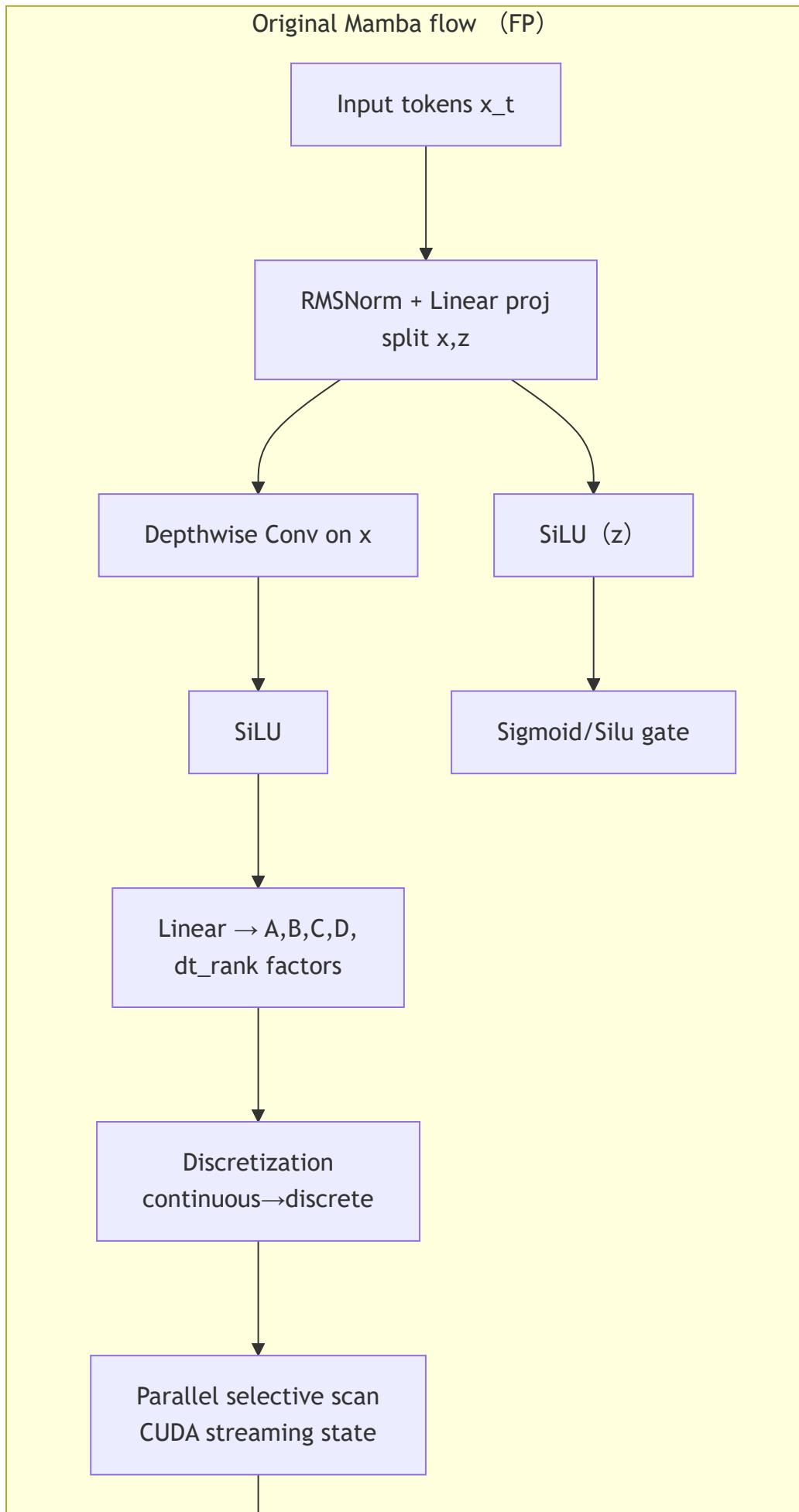
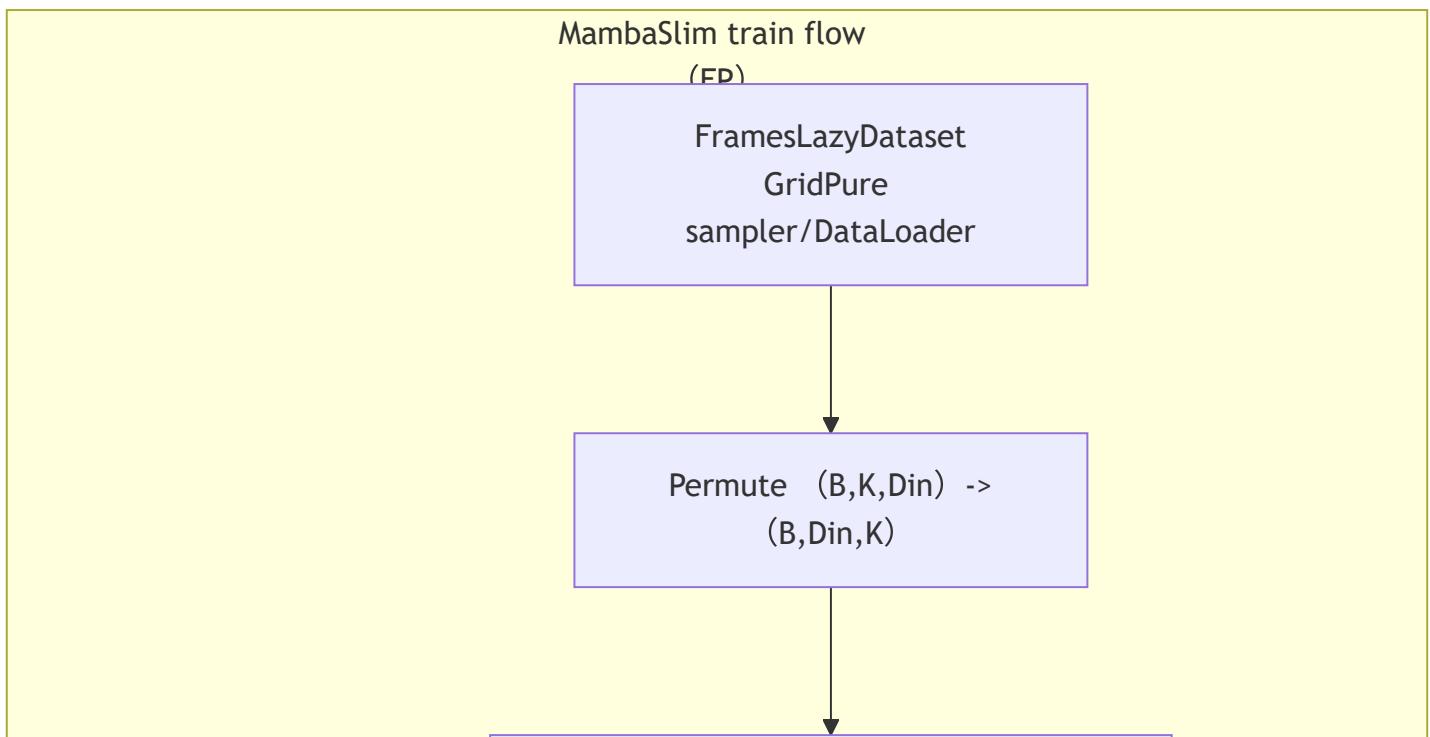
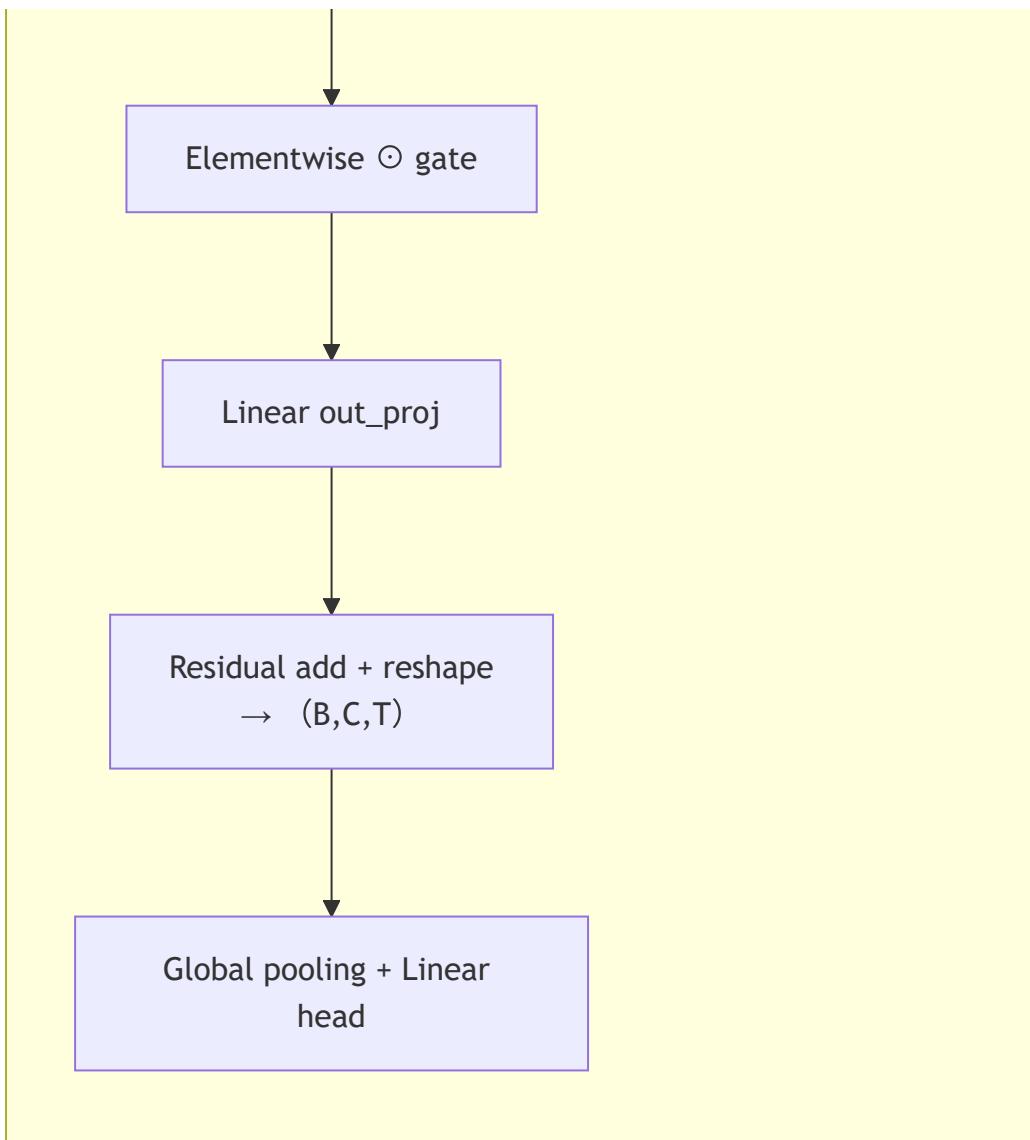


Mamba (Original)









Conv1x1 Din→proj_dim
(refactor/core/mamba_regressor.py)

Patch Conv1d
stride=stride

PE on?

Add sin-cos PE
scaled by pe_scale

Skip

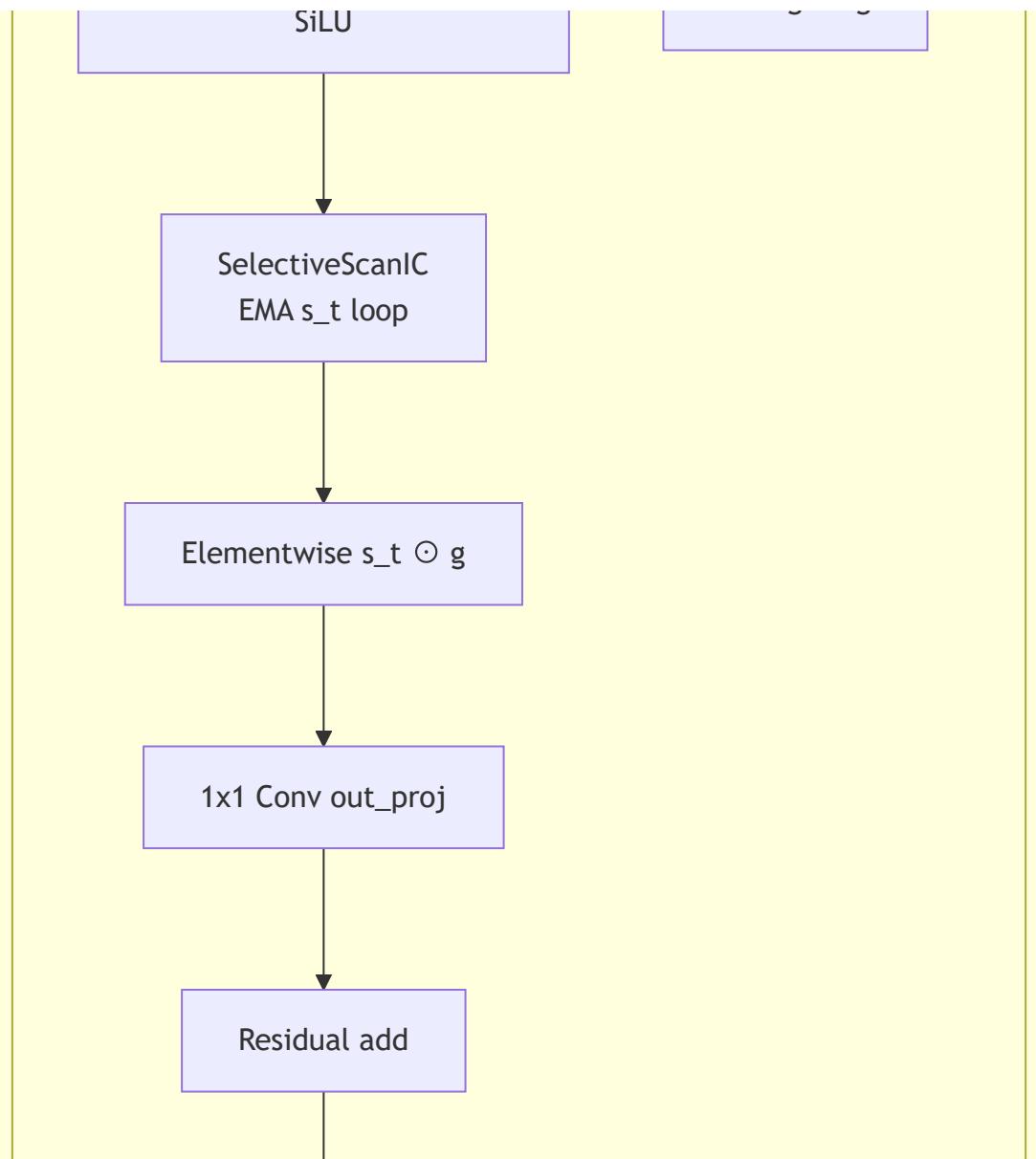
SlimMambaBlock × n

RMSNorm

1x1 Conv → split u,z

Optional DWConv on u +

SiLU gate g



avg/max

Mean/Max over L
 1×1 Conv head

flat

Permute $B \times d_{model} \times L$
 $Conv1d$ kernel= L

Reshape → coords