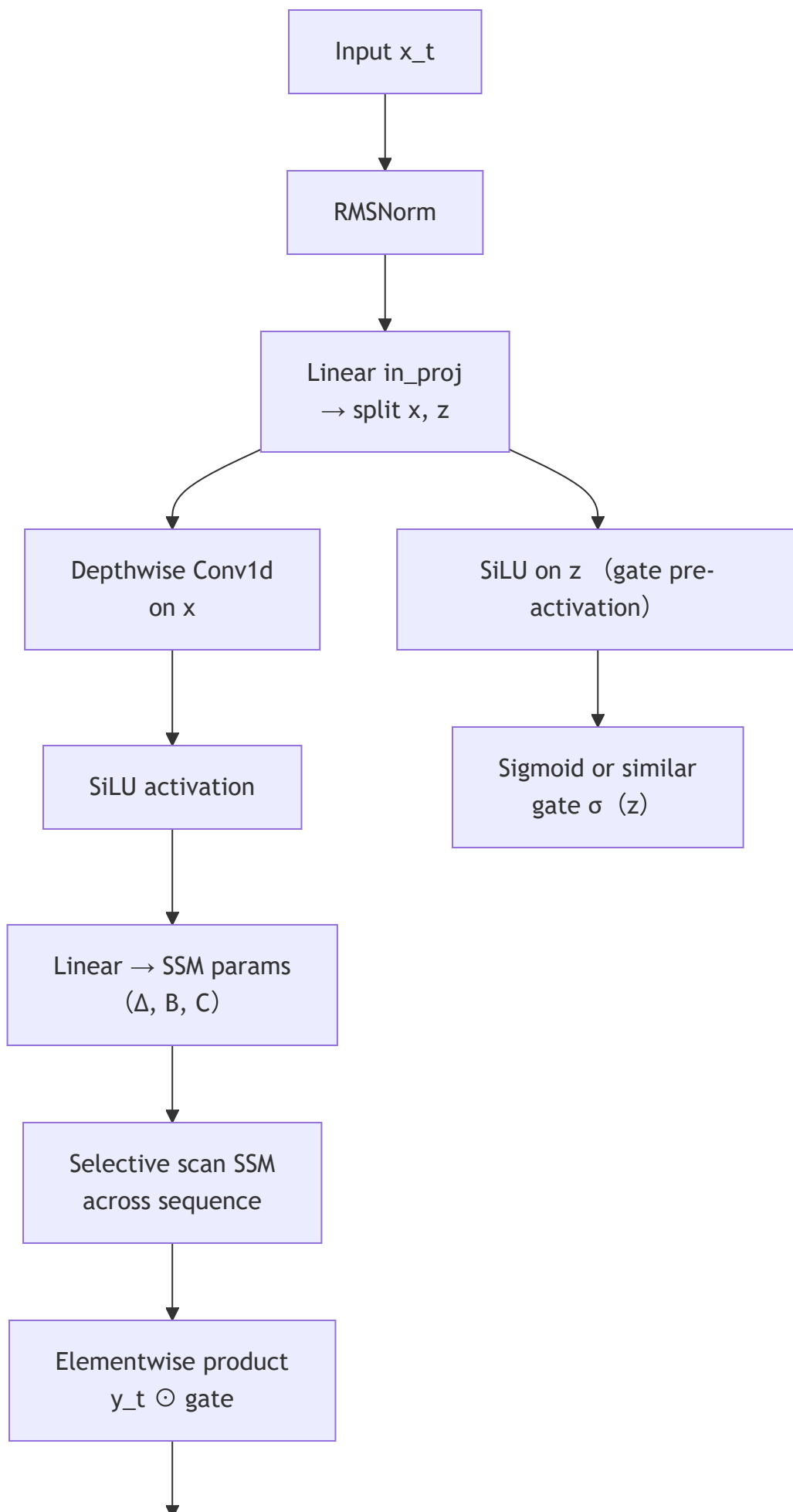


Mamba (Original)

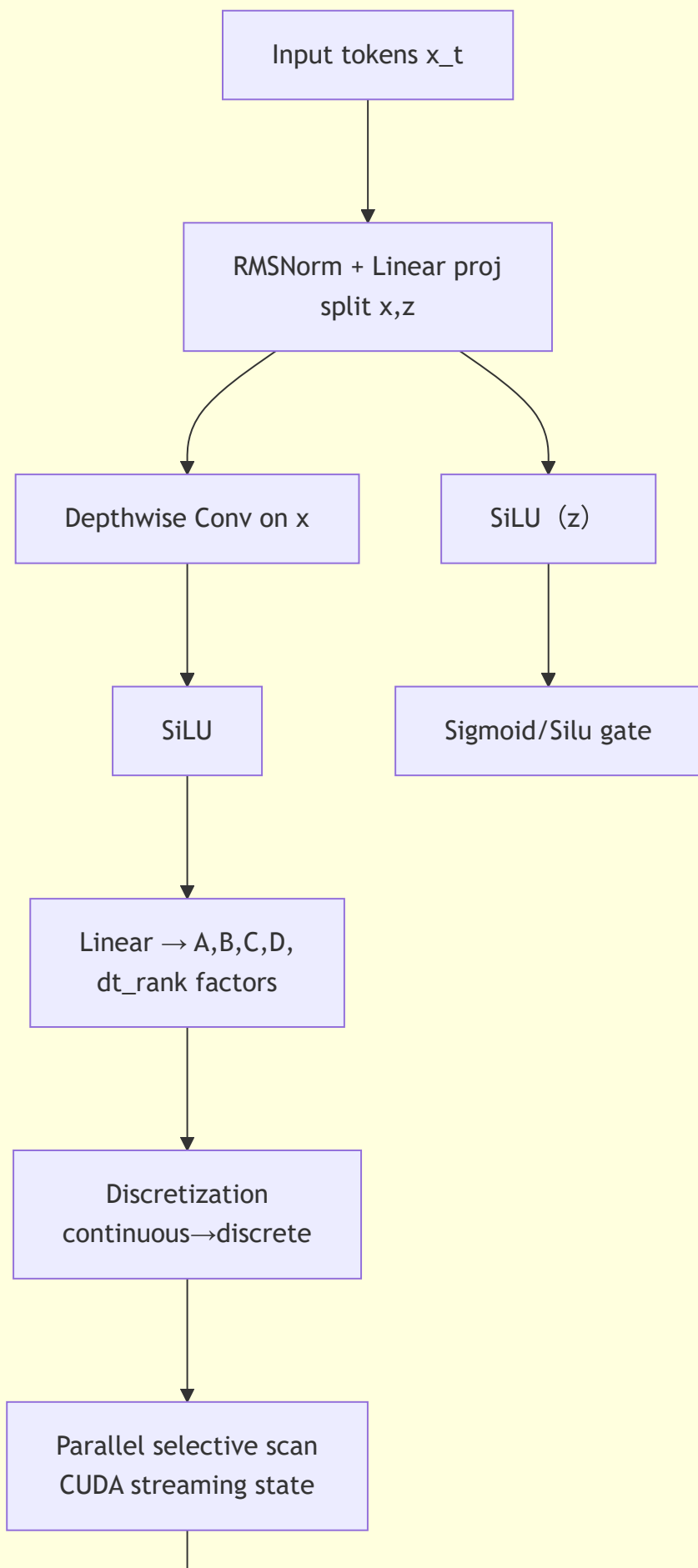


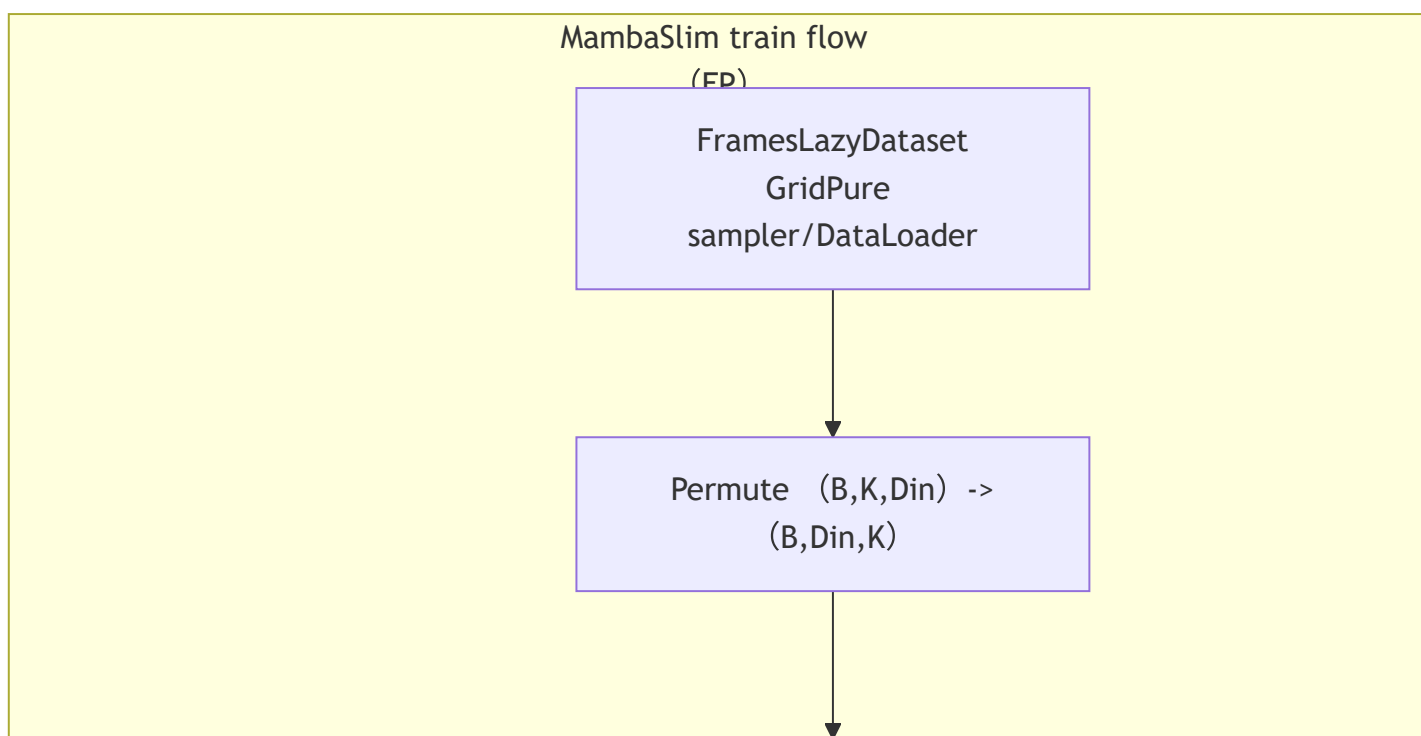
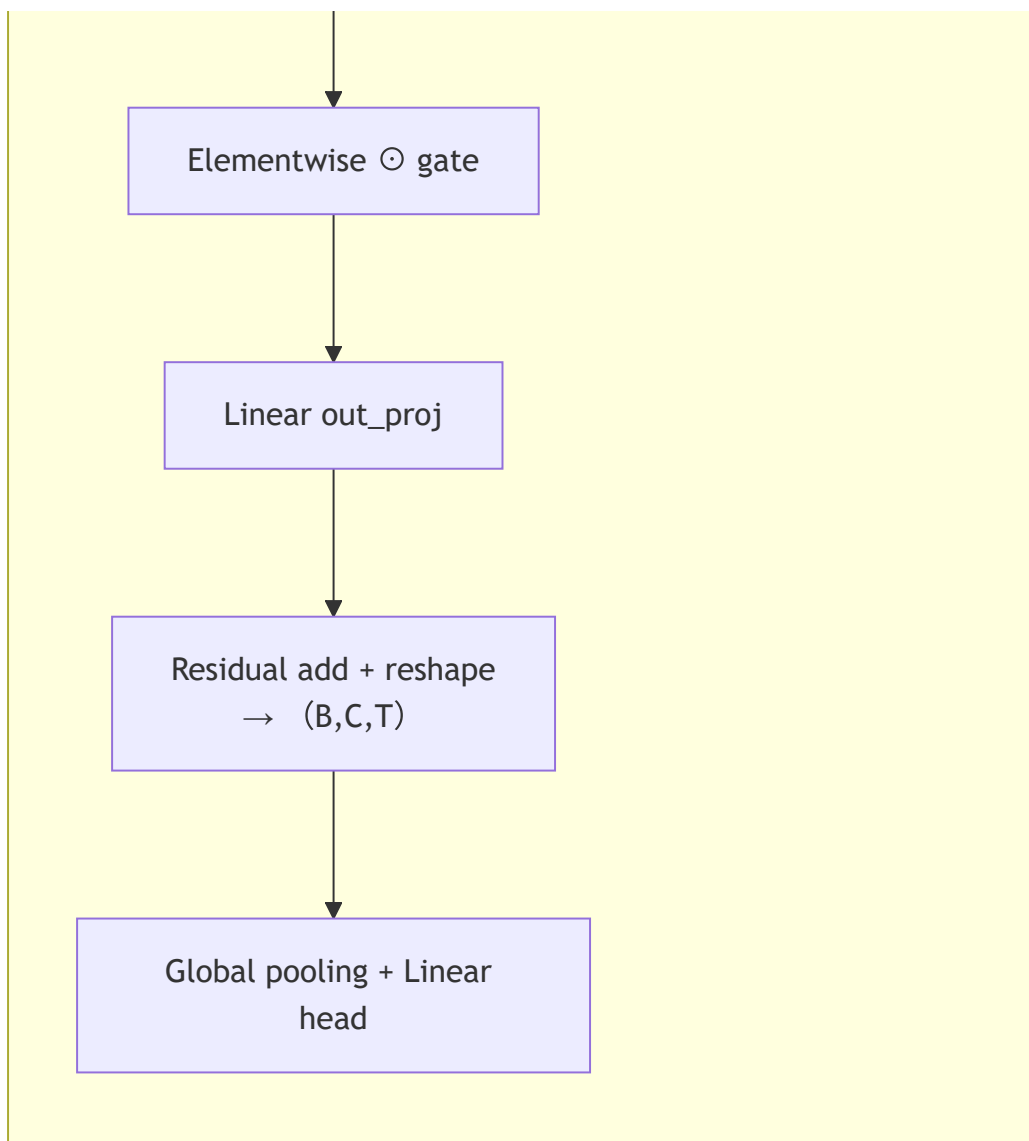
Linear out_proj



Residual add with x_t

Original Mamba flow (FP)





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

Patch Conv1d
stride=stride

PE on?

Yes

Add sin-cos PE
scaled by pe_scale

No

Skip

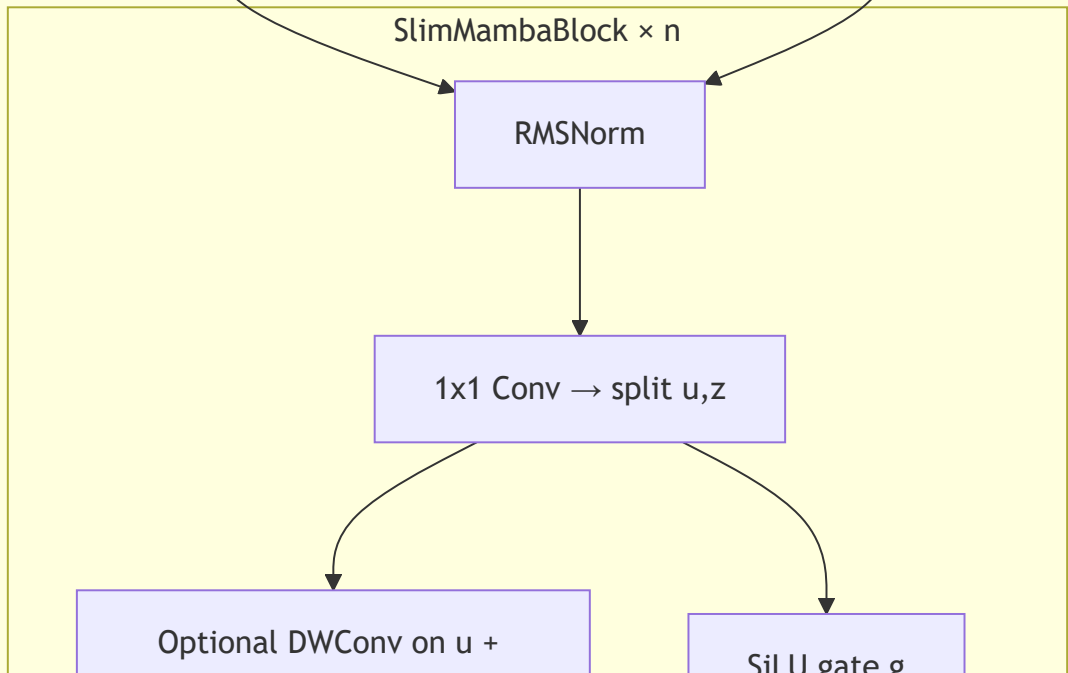
SlimMambaBlock × n

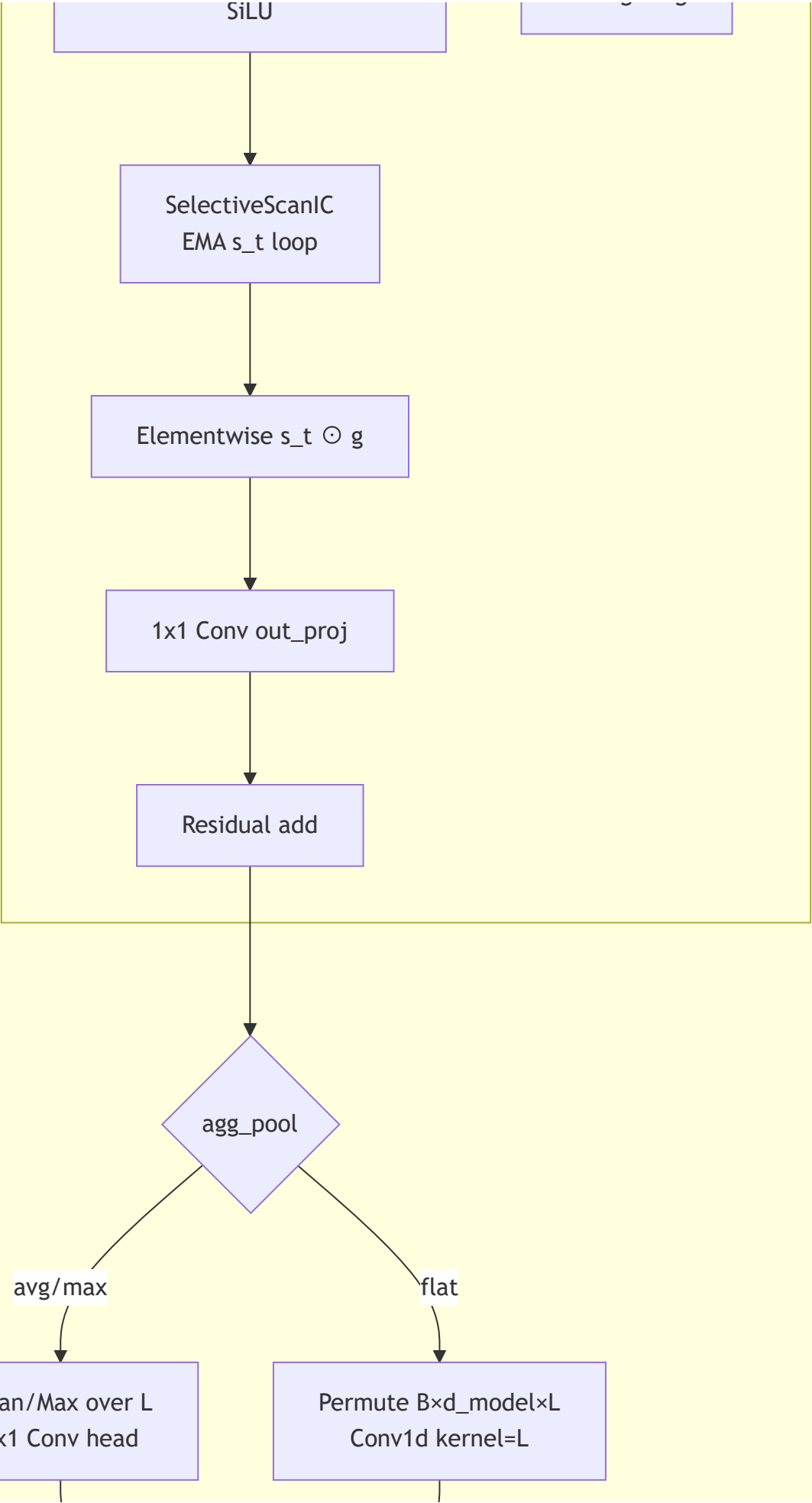
RMSNorm

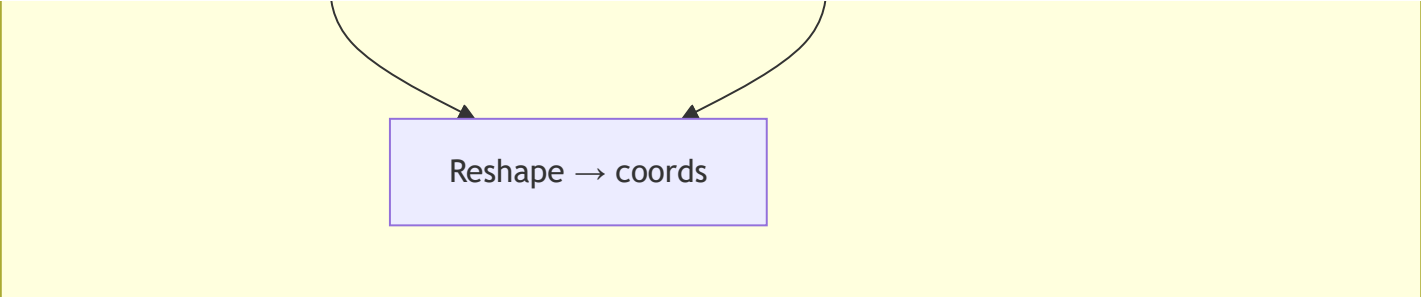
1x1 Conv → split u,z

Optional DWConv on u +

SiLU gate g







Reshape → coords