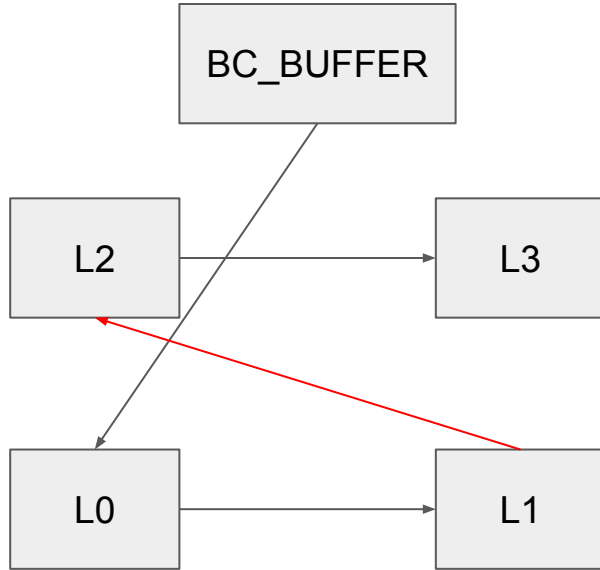


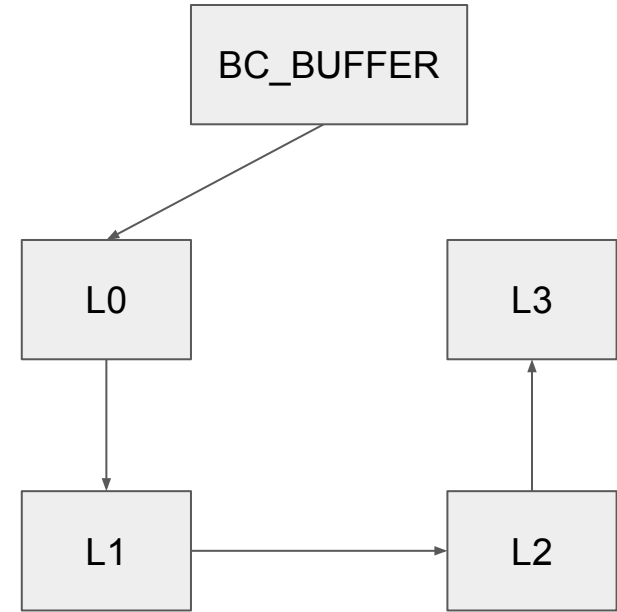
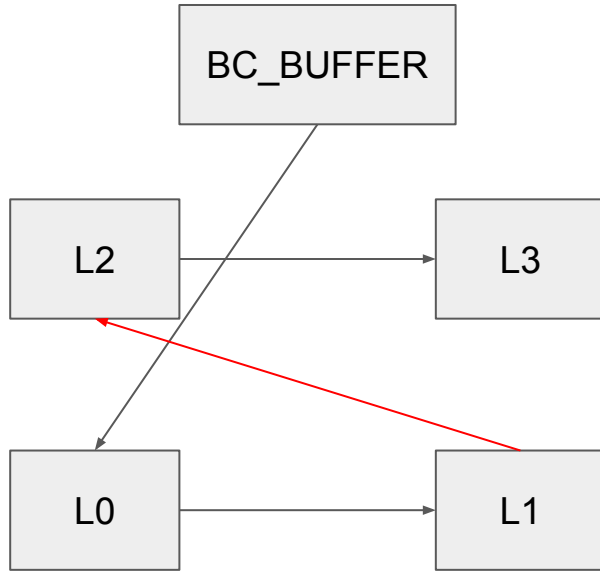
Week 18

# The Critical Path



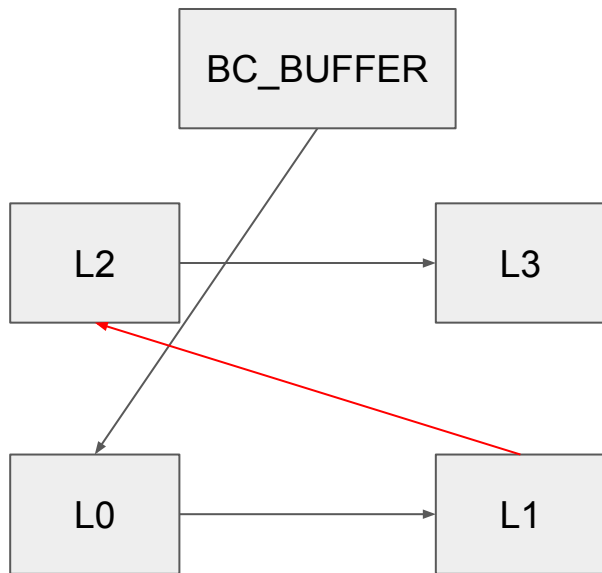
→ Critical path

# The Critical Path

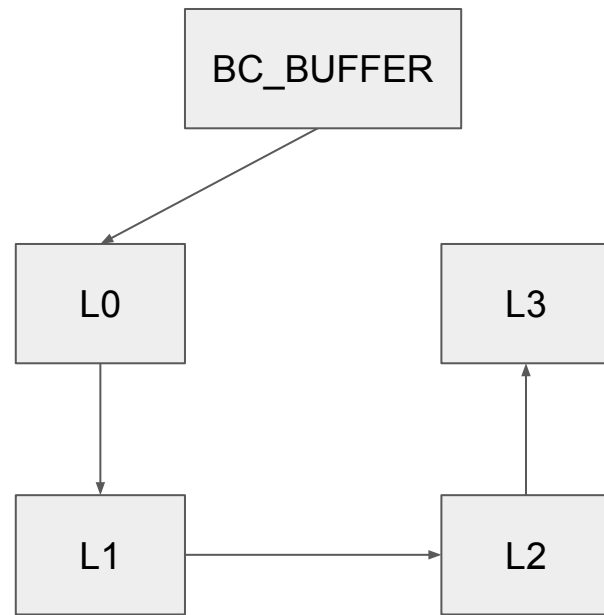
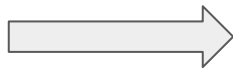


→ Critical path

# The Critical Path



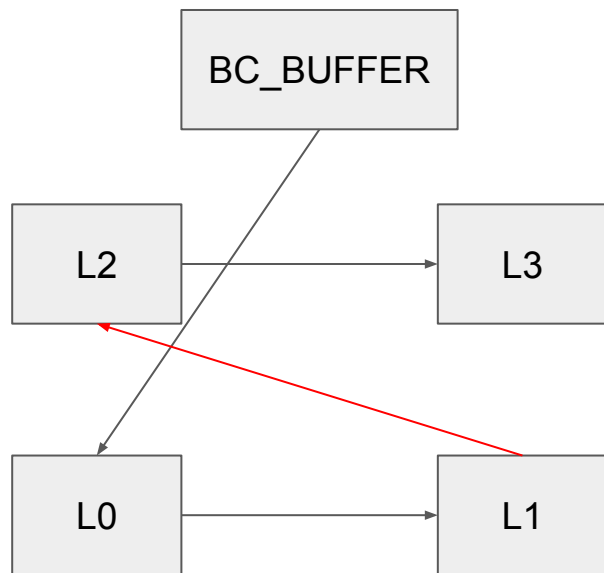
→ Critical path



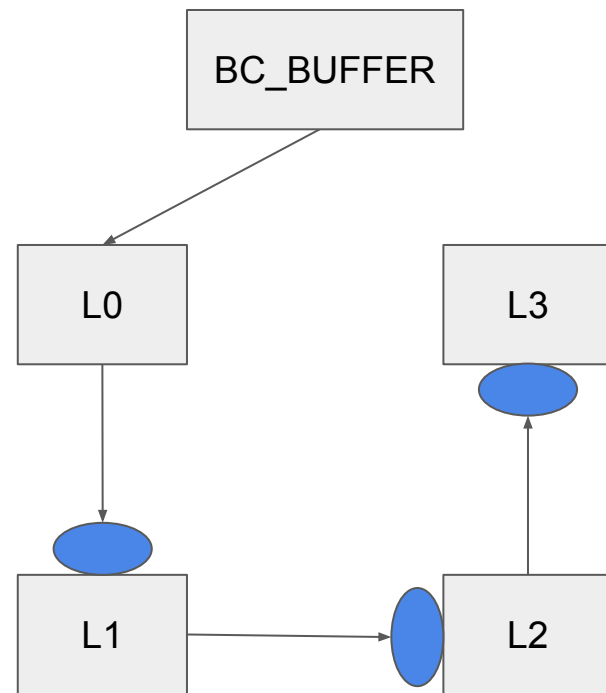
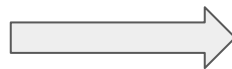
Related Slack:

-234.20ps → -94.64ps  
WNS: -112.27ps (in mask unit)

# The Critical Path



→ Critical path

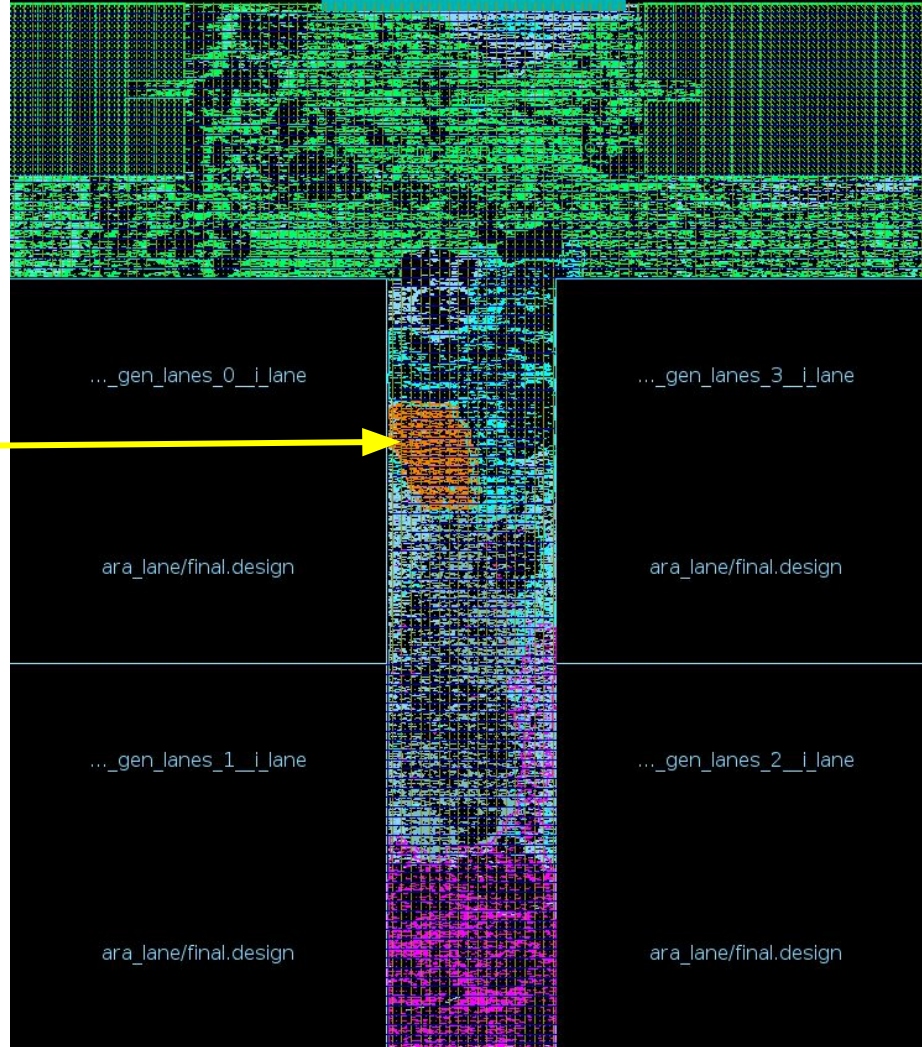


spill\_register



# Layout

bc\_buffer



# Area

cva6	179413	180195
sldu	27547	27020
masku	26905	25693
vlsu	23670	25284
bc_buffer	5388	\

Cell area: 203924 → 211181 (3.55% ↑)  
Utilization: 73.82% → 76.45%