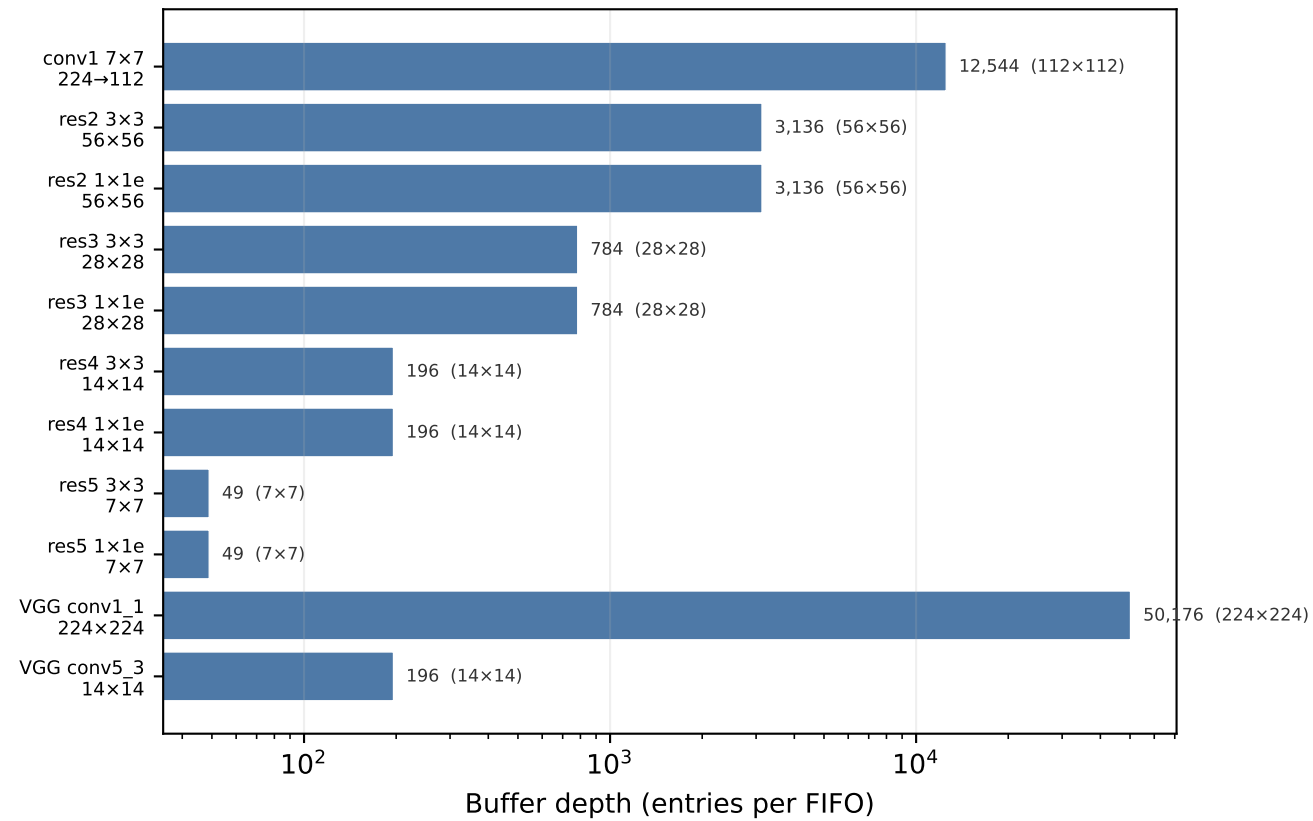


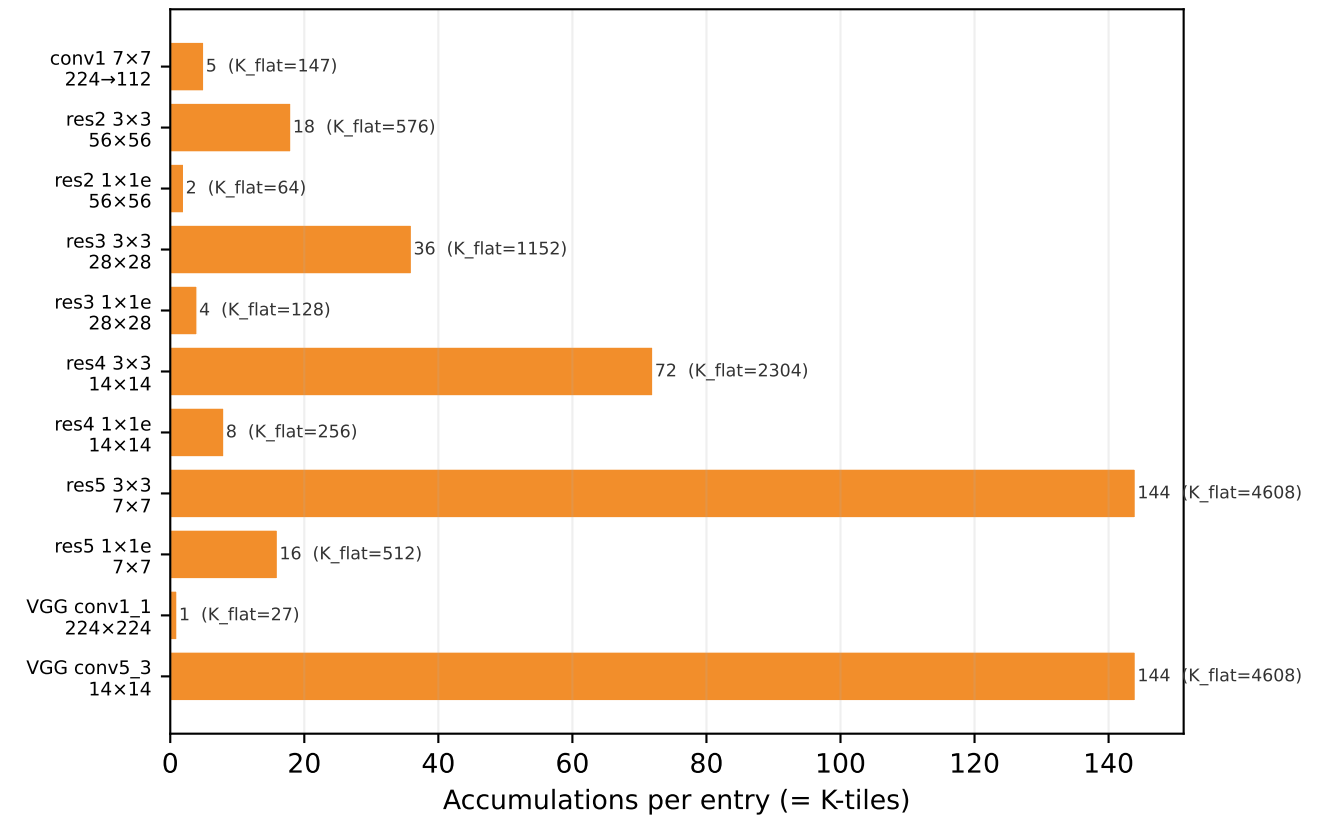
PSUM Direct-Mapped Routing — Buffer Analysis

col c → buf c | FIFO sizing, accumulation depth, verification

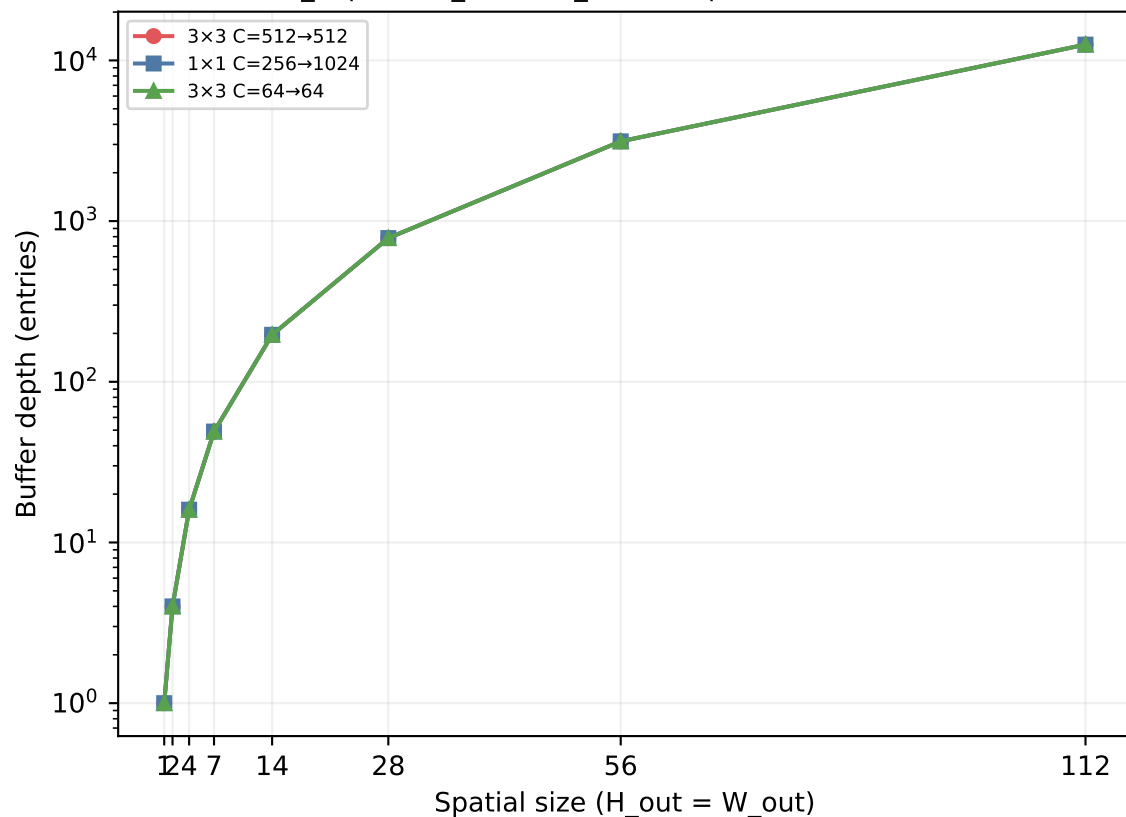
(a) FIFO Buffer Depth per Layer
= $H_{out} \times W_{out}$ ($N=1$)



(b) Accumulations per Buffer Entry
each entry accumulated K-tile times before drain



(c) Buffer Depth Scaling
buf_depth = $H_{out} \times W_{out}$ (independent of channels)



(d) Sim-Verified Configs (green = PASS)
includes small IFMap, non-div-32, batched, strided

