

bitops: a -bit Act w -bit Weight

Assume mul: $2mn$ accumulation: $(m+n)\lceil \log_2 N \rceil$

N : # of accumulation of layer

Conv: $k^2 C_{in}$ Cout Hact Wout mul

$(k^2 C_{in} - 1)$ Cout Hact Wout acc $N = k^2 C_{in}$

FC: $C_{in} C_{out}$ mul

$(C_{in} - 1) C_{out}$ acc $N = C_{in}$

