Quad: Number of Unique Constants in A vs Pseudo-FLOP/s  $6 \times 10^{9}$ Seudo-FLOP/s  $4 \times 10^9$  $3 \times 10^9$ **Custom LIBXSMM** Reference LIBXSMM  $2 \times 10^{9}$ sparse wide-sparse dense 10 20 30 40 50 **Number of Unique Constants**