Hex: Number of Columns in A vs Pseudo-FLOP/s Reference LIBXSMM **Custom LIBXSMM** sparse  $2 \times 10^{10}$ wide-sparse dense Pseudo-FLOP/s  $10^{10}$  $6 \times 10^{9}$  $4 \times 10^{9}$ 200 400 600 800 1000 **Number of Columns**