The matrices prefixed with "Kron" from the Florida Sparse Matrix group (https://www.cise.ufl.edu/research/sparse/matrices/DIM were tested on Vulcan in both weak and strong scaling studies. The weak scaling studies were performed with approximately 10,000 degrees-of-freedom per process. The strong scaling study was performed on kron_g500-logn22, a matrix with approximately 1,000,000 rows and 89,000,000 nonzeros.
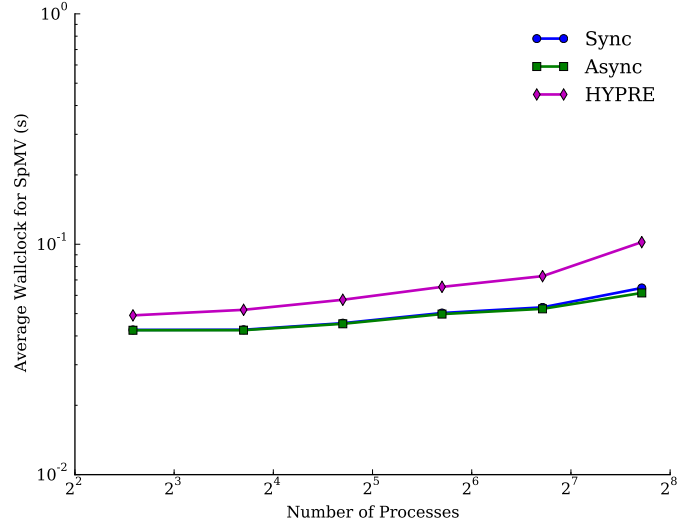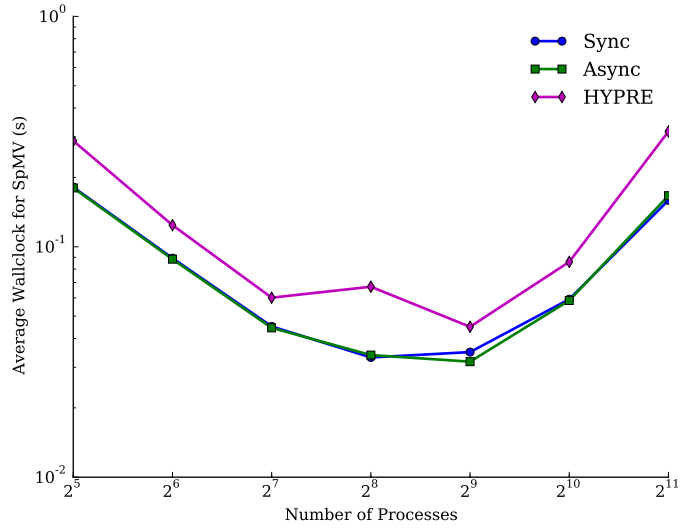

Figure 1: Weak Scaling Study

Figure 2: Strong Scaling Study