- Redis

- MySQL

- Network latency—netperf

Netperf will be used to measure round-trip network latency. The CloudLab x86\_64 and ARM architecture's will run the server while another machine acts as the client. Our client will send out a 100-byte request to the server which the server will send a 200-byte response back to. The time it takes for the client to get this response after sending out the request will give us the network latency.

- HPC—Linpack

-Linpack solves a dense system of linear equations using an algorithm that carries out LU factorization with partial pivoting. The majority of compute operations will be spent in double-precision floating point multiplication. This benchmark is typically based on a linear algebra library that will be heavily optimized for the machine architecture we will be building. We will utilize Intel Math Kernel Library for our Linpack binary.