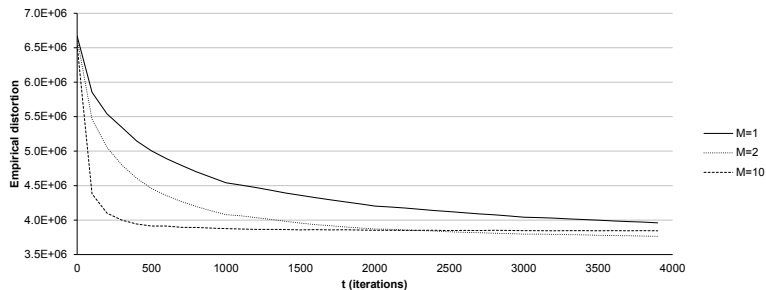


# A Discussion on Parallelization Schemes for Vector Quantization Algorithms

- ▶ Online learning algorithms are successfully parallelized when the loss function is convex and smooth.
- ▶ Vector Quantization loss function is not convex: classical average-based consensus does not work.
- ▶ We present experimentations using other consensus techniques.

# A Discussion on Parallelization Schemes for Vector Quantization Algorithms



**Figure:** Charts of performance curves on our cloud implementation for different number of computing entities.