

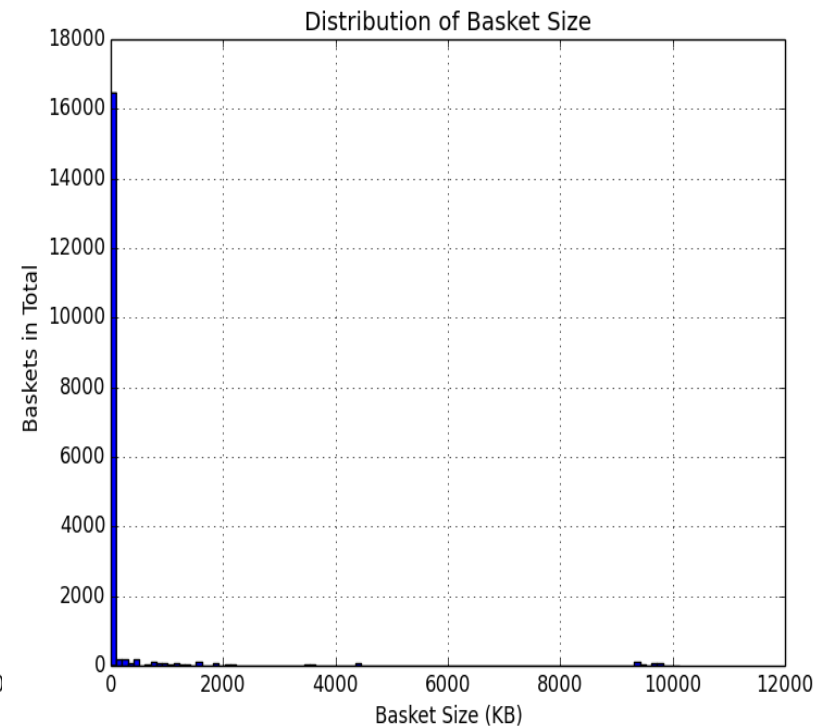
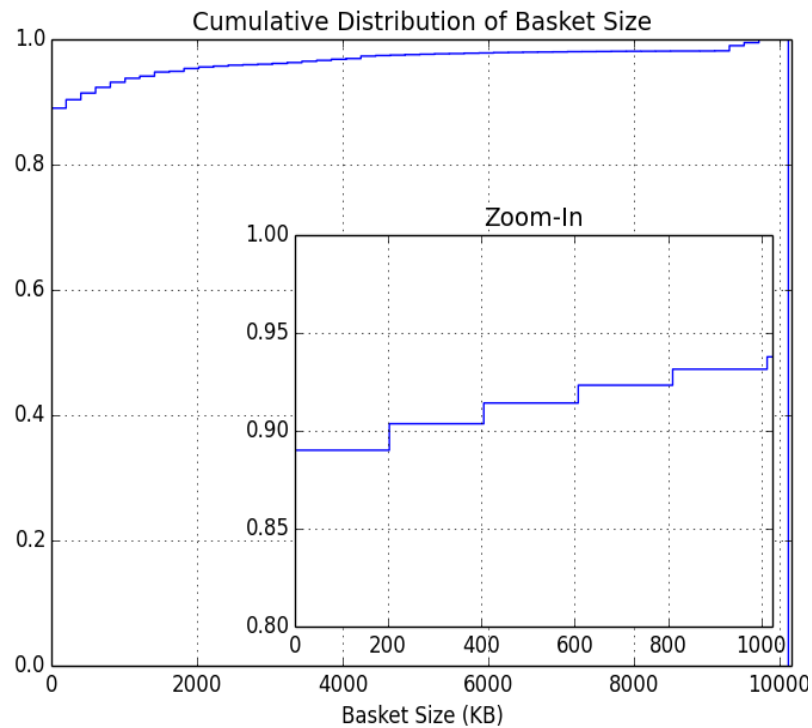
Zlib vs Lz4

Zhe Zhang

Zlib6: Distribution of Block Size

CMS file:

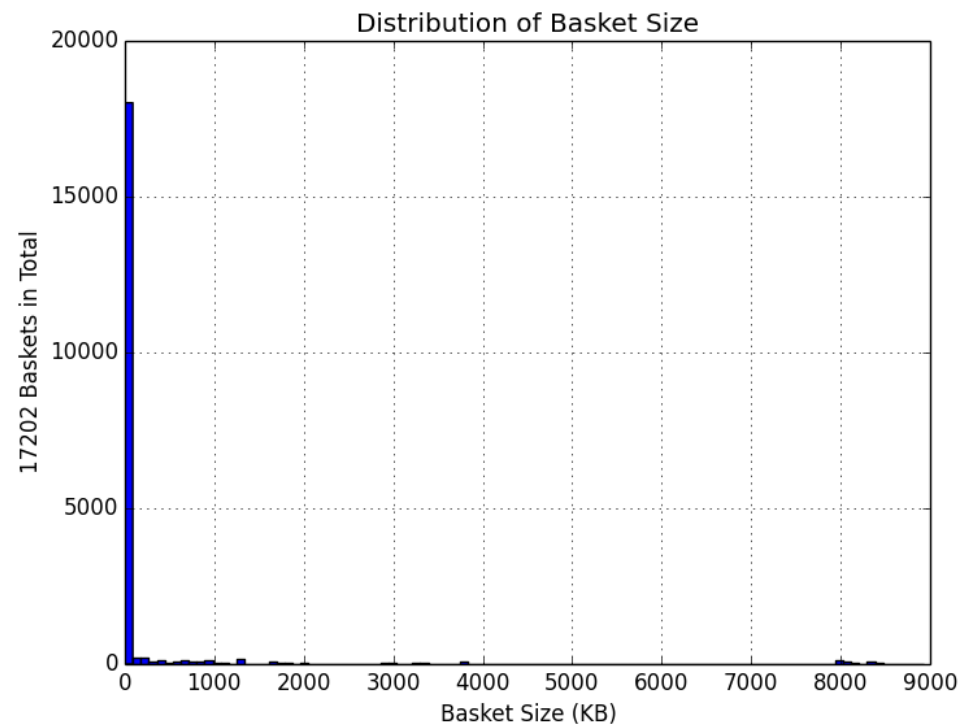
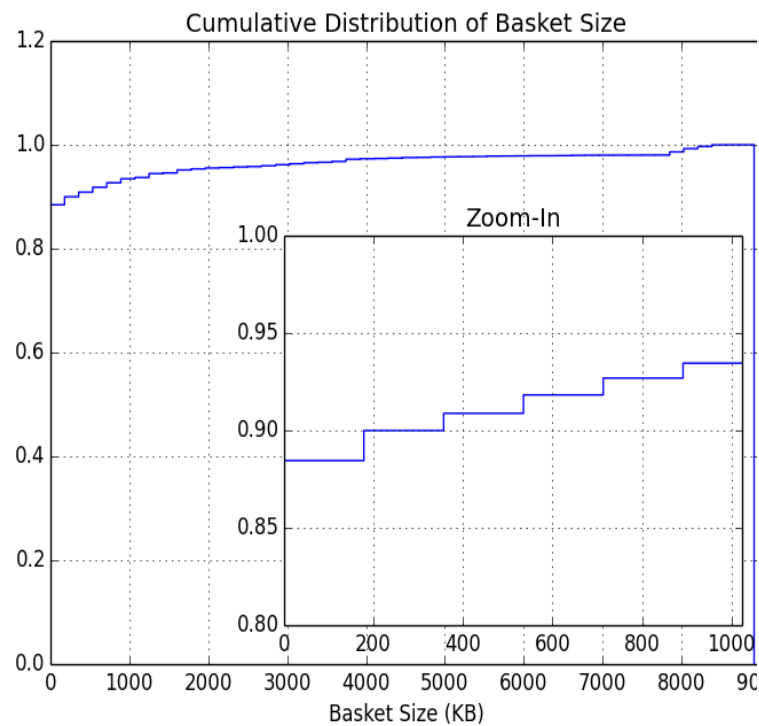
https://root.cern.ch/files/CMS_7250E9A5-682D-DF11-8701-002618943934.root



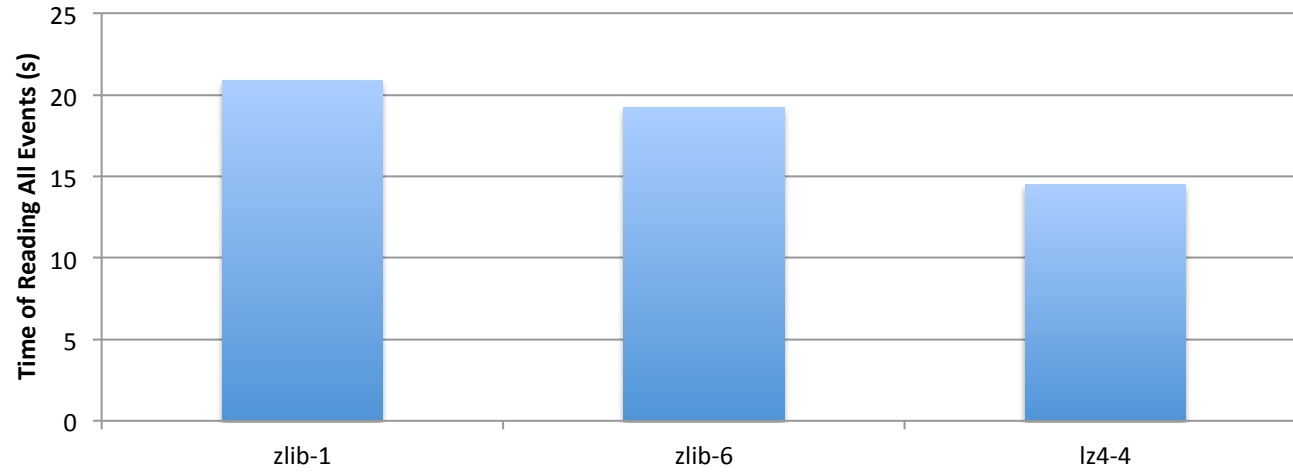
Lz4: Distribution of Block Size

CMS file:

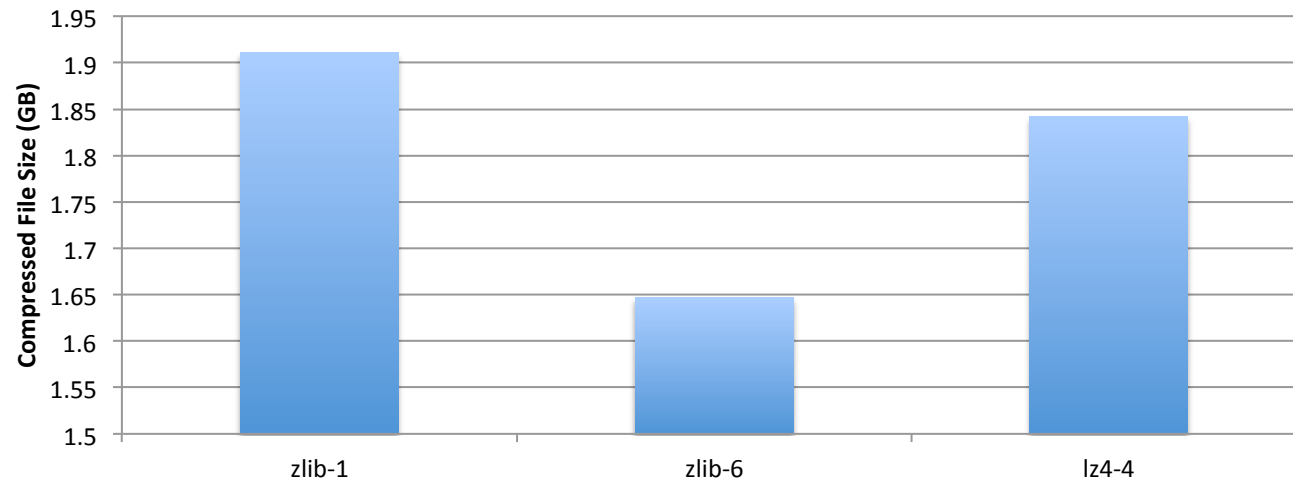
https://root.cern.ch/files/CMS_7250E9A5-682D-DF11-8701-002618943934.root



Read Time

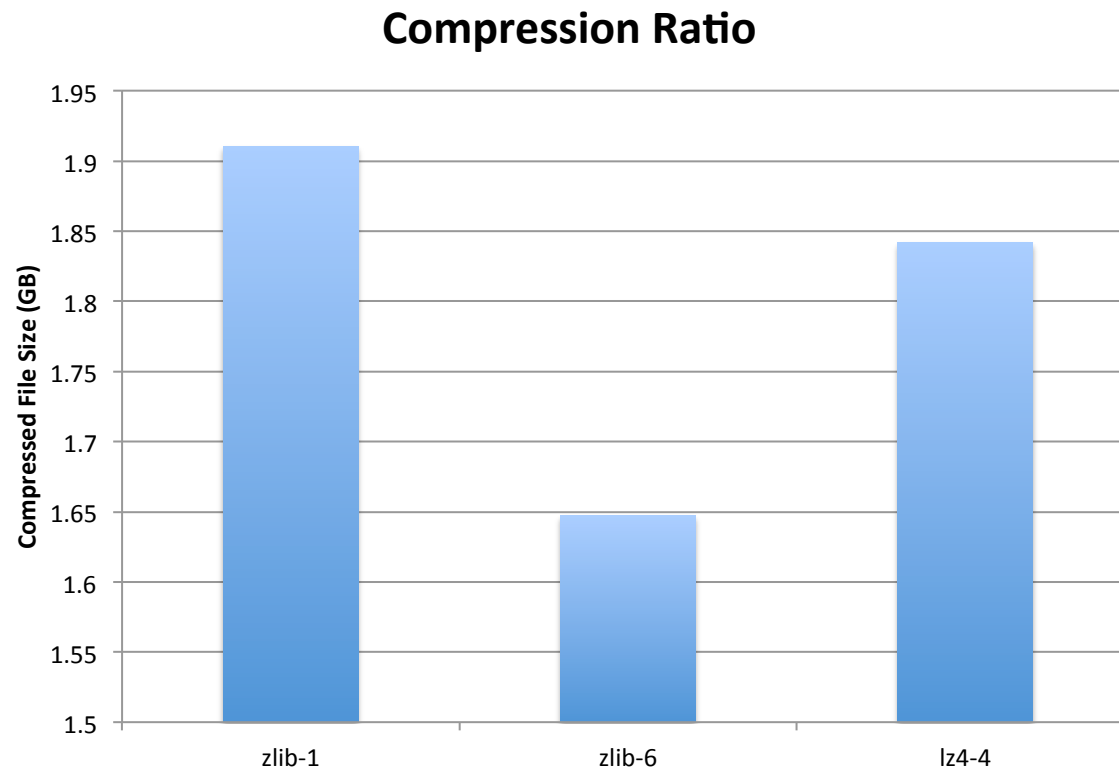


Compression Ratio



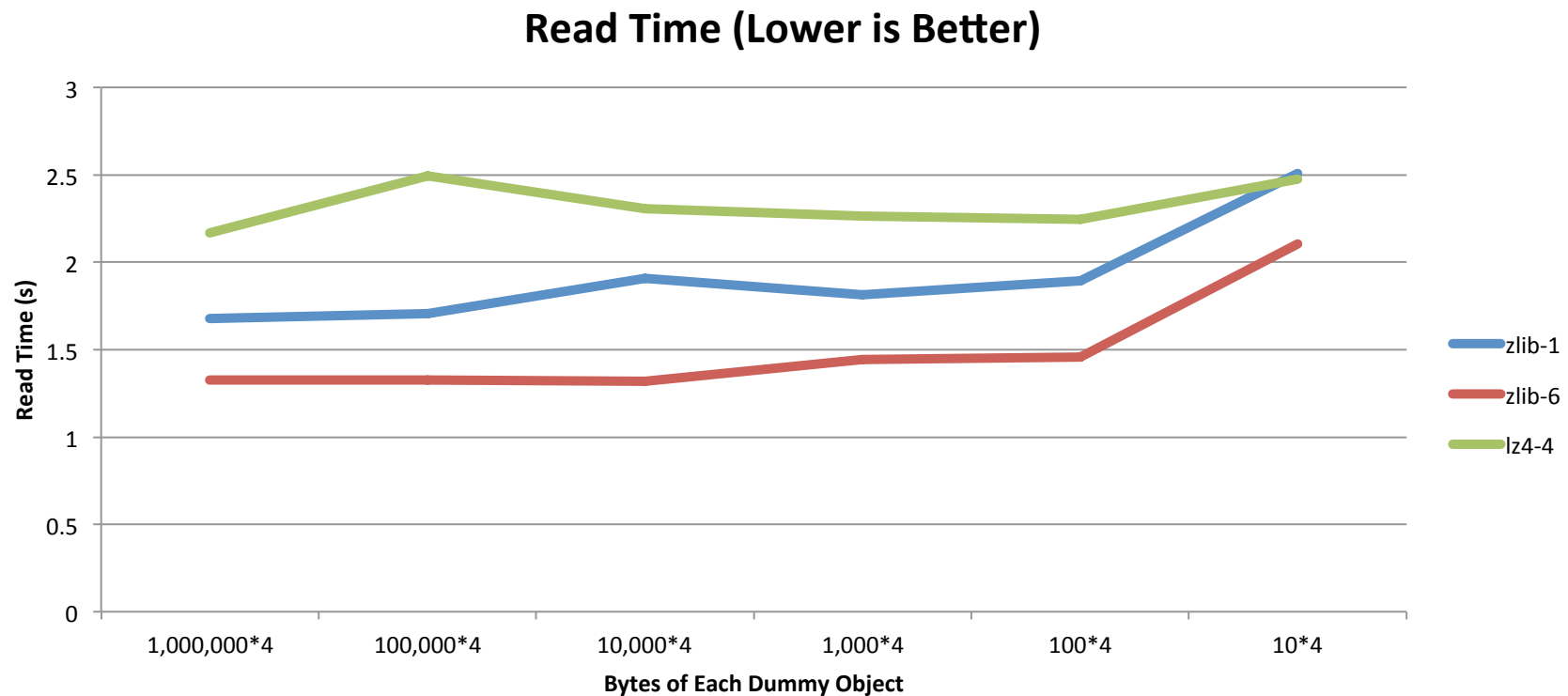
Raw Data File Size 6.4 GB

Compression Ratio



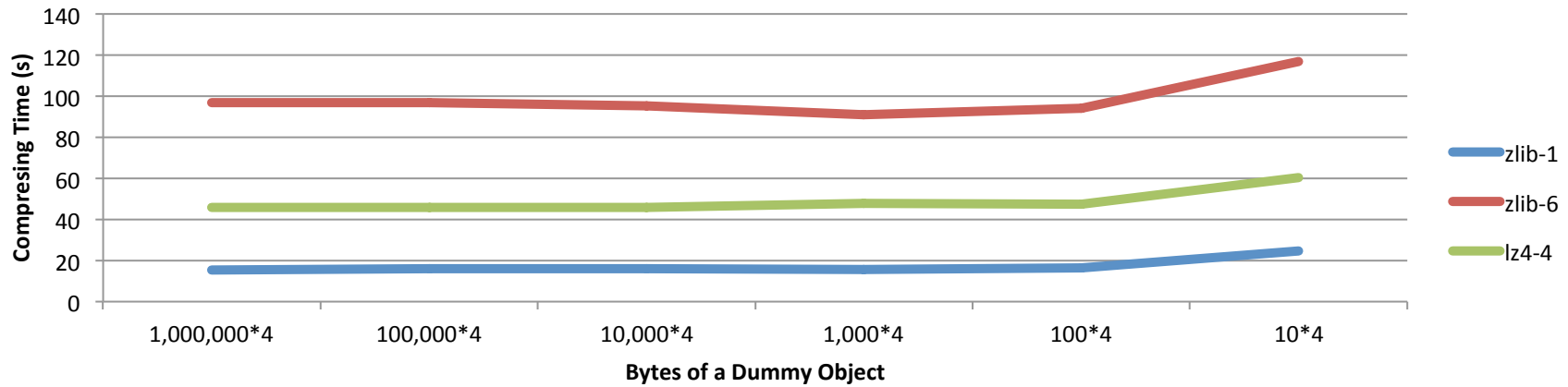
Read Time of Dummy Objects

- Dummy object's size is ranging from 40 B to 4 MB.
- All tests contain equal amount of data.
- 100 objects for 4 MB object and 10,000,000 objects for 40 B object



Compression of Dummy Objects

Compressing Time (Lower is Better)



Compression Ratio (Higher is Better)

