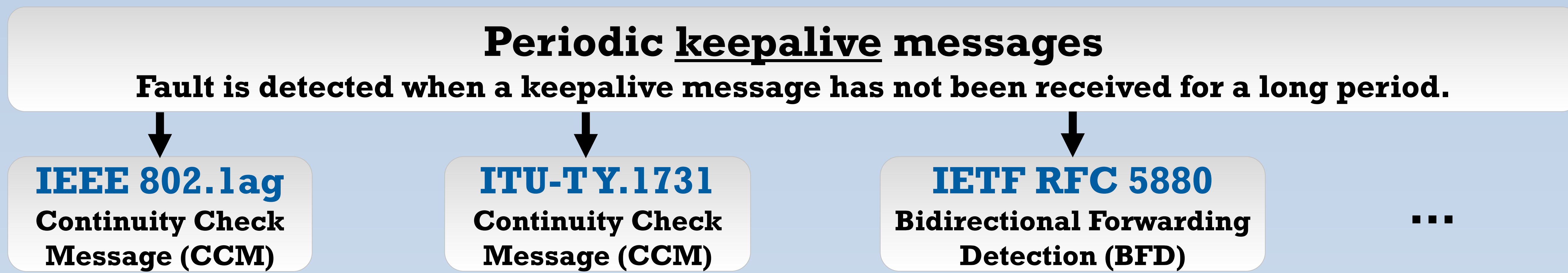
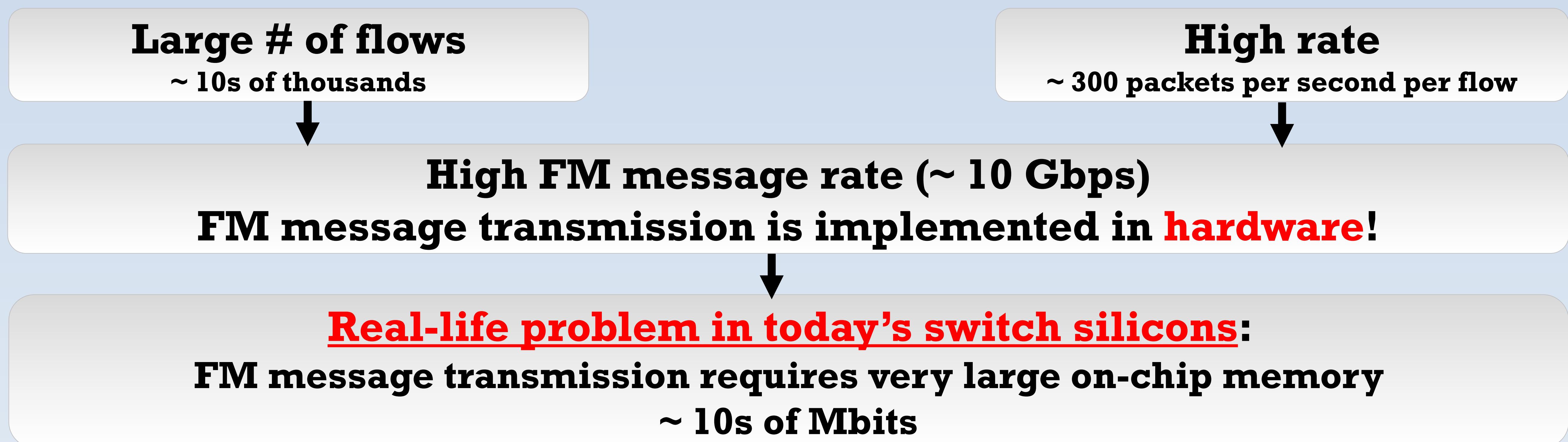


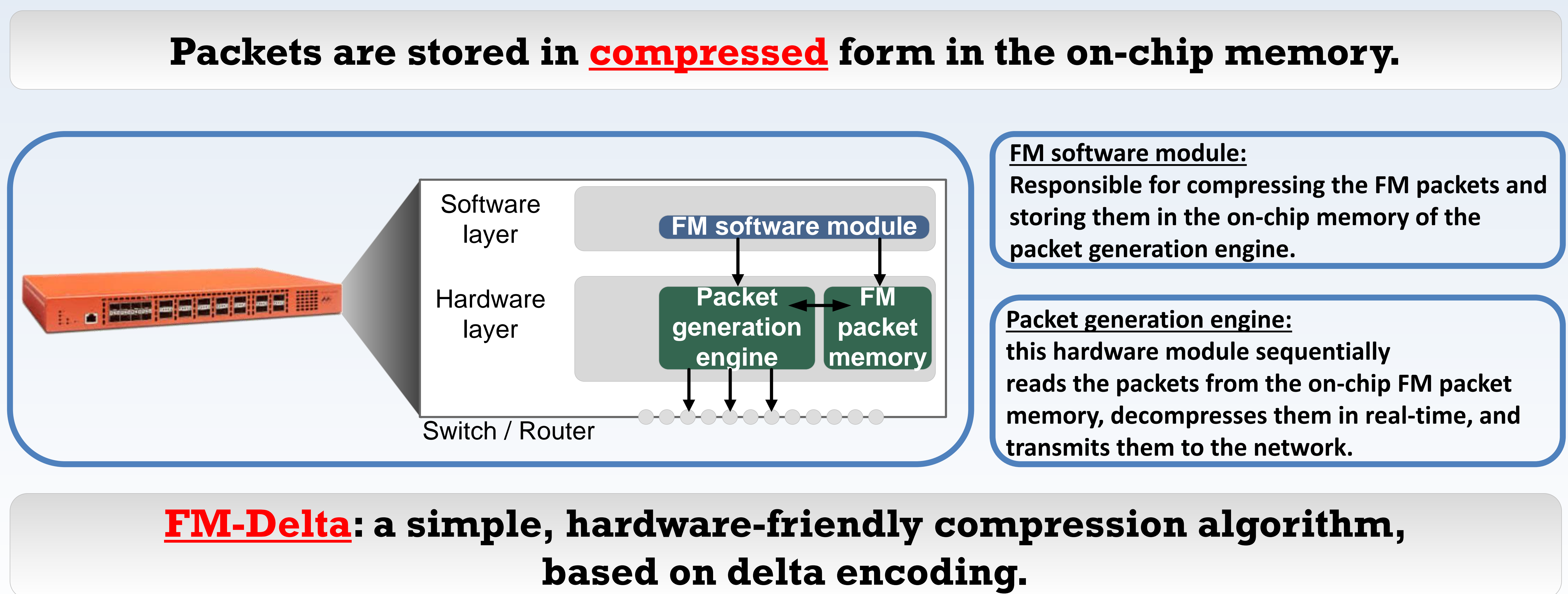
Active Fault Management (FM)



The Problem: Large On-chip Memory



Our Solution: FM Memory Compression



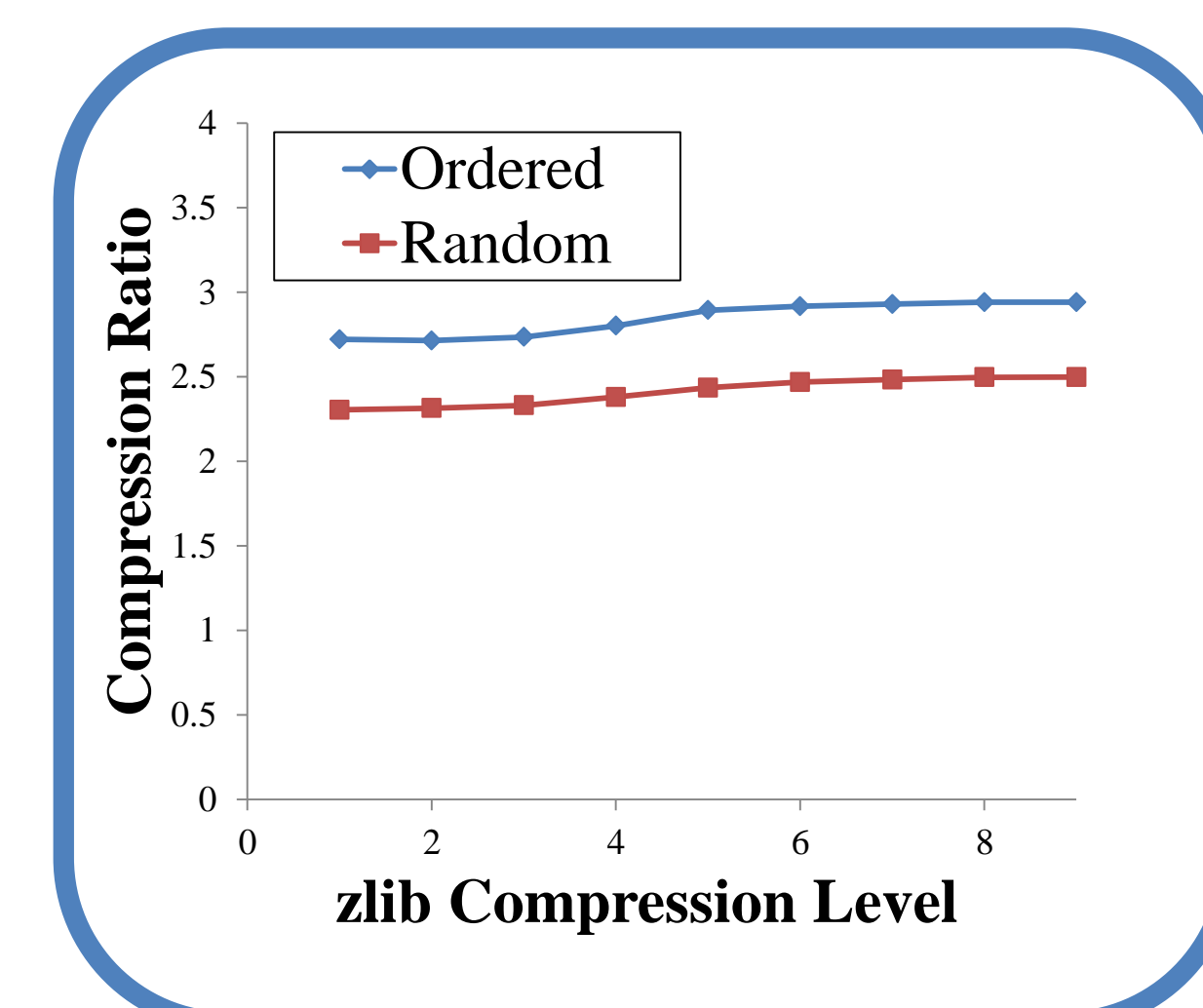
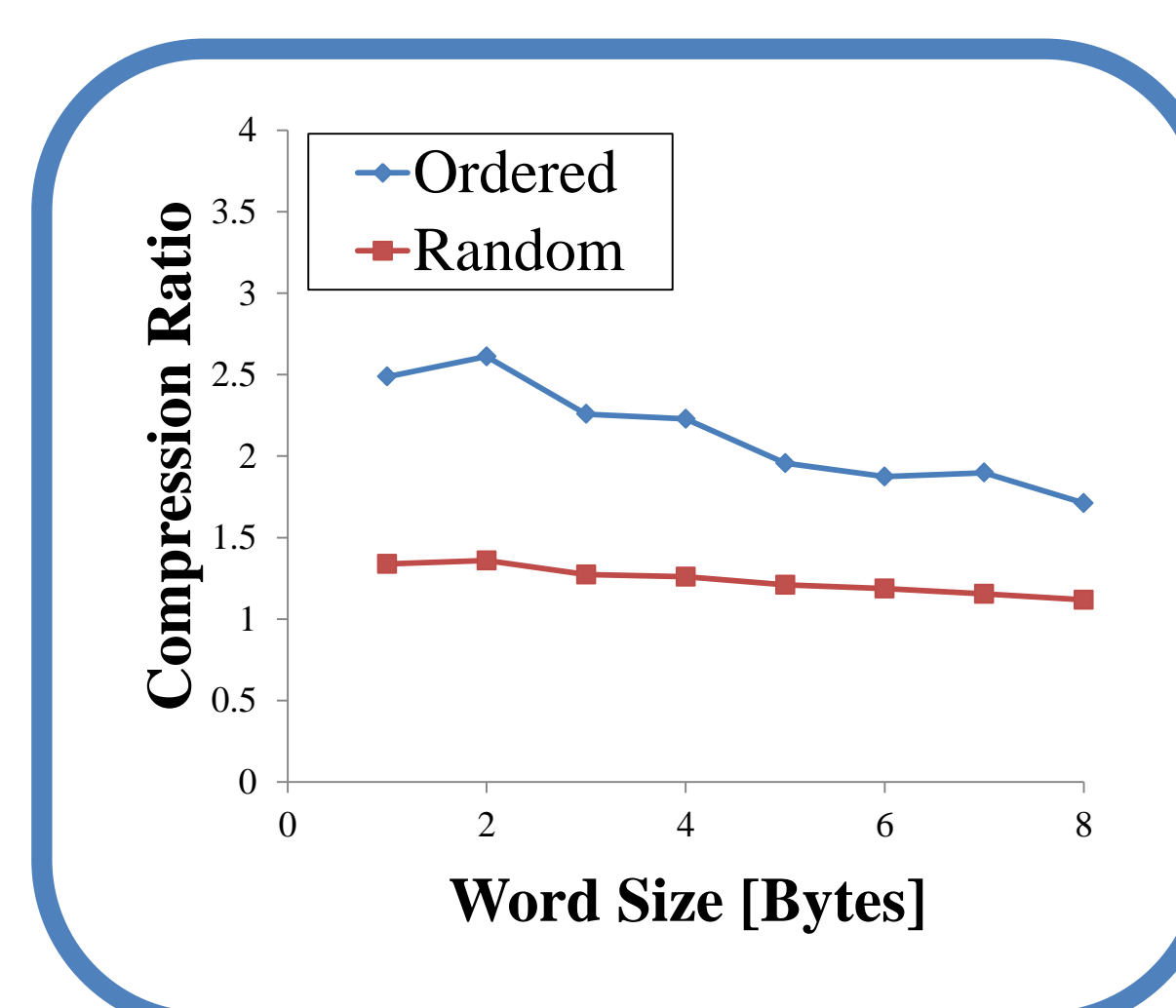
FM-Delta works well on FM messages due to 3 unique properties:

- FM packets have low entropy.
- The FM memory is accessed sequentially.
- We fully control the order of packets stored in the memory.

Surprising Results

FM-Delta performance is similar to the state-of-the-art zlib library.

**FM-Delta
compression ratio: 2.6**



Open source code, open data sets:

<https://sites.google.com/site/fmdeltacompression/>

FM-Delta: hardware-friendly, high compression ratio for FM.