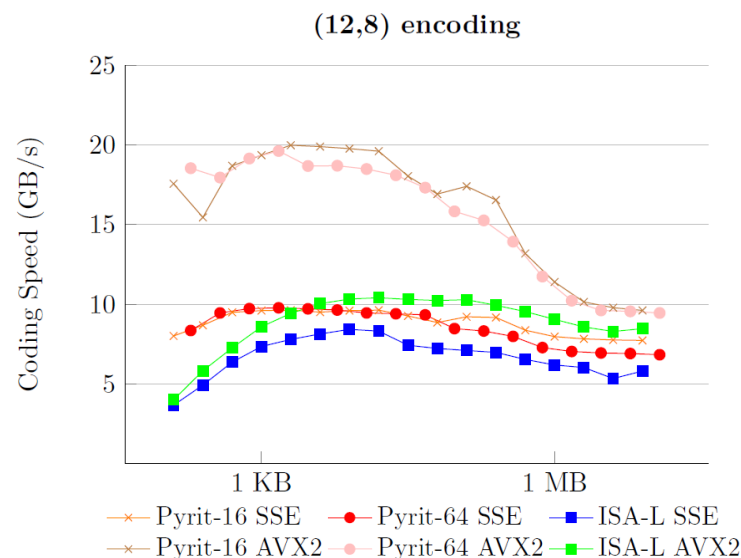


PYRIT: a new high-perf. and versatile erasure code for distributed storage

Erasure codes adoption in distributed storage applications is slowed down by encoding/decoding overhead and need for carefully optimized architectures.

DESCRIPTION*

- Pyrit is a new erasure code algorithm based on an innovative mathematical approach
- The algorithm becomes much simpler
- Up to 2X gain for encoding or decoding speed compared to Intel's optimized ISA-L library (test in single thread, see below)
- Suited to even low-cost CPUs with predictable performance
- Low memory requirements
- Can benefit from hardware acceleration and multi-threading



TECHNICAL SPECIFICATIONS

Target	Any CPU
Threading	Single, multi-thread possible

COMPETITIVE ADVANTAGES

- x2 performance Vs Intel ISA-L
- Simple algorithm easy to integrate
- Possible HW acceleration or parallelization

APPLICATIONS

- Integrated storage devices
- Cloud storage
- Multi-site storage

INTELLECTUAL PROPERTY

- Software

DEVELOPMENT STAGE

- Technology validated at lab level



LABORATORY

- DISC team



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