

# Constellation Data Rate

EDDA Meeting

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# Data rates in Constellation

Problem:

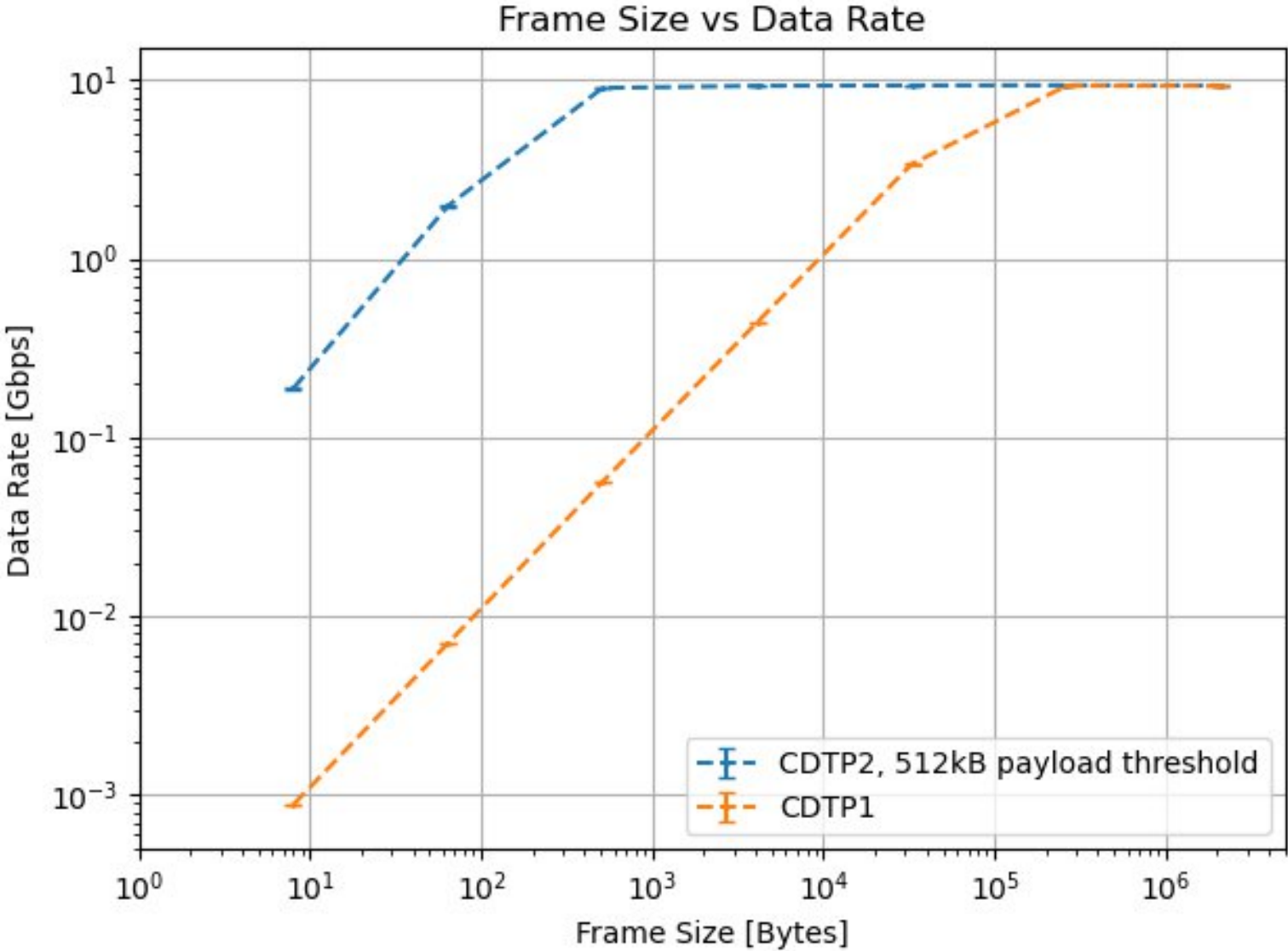
- Extremely low data rates in Constellation observed at test beam
- Issue: each “data frame” (e.g. dSiPM frame) was send as own TCP message over the network
- Problem: this is extremley inefficient

Idea:

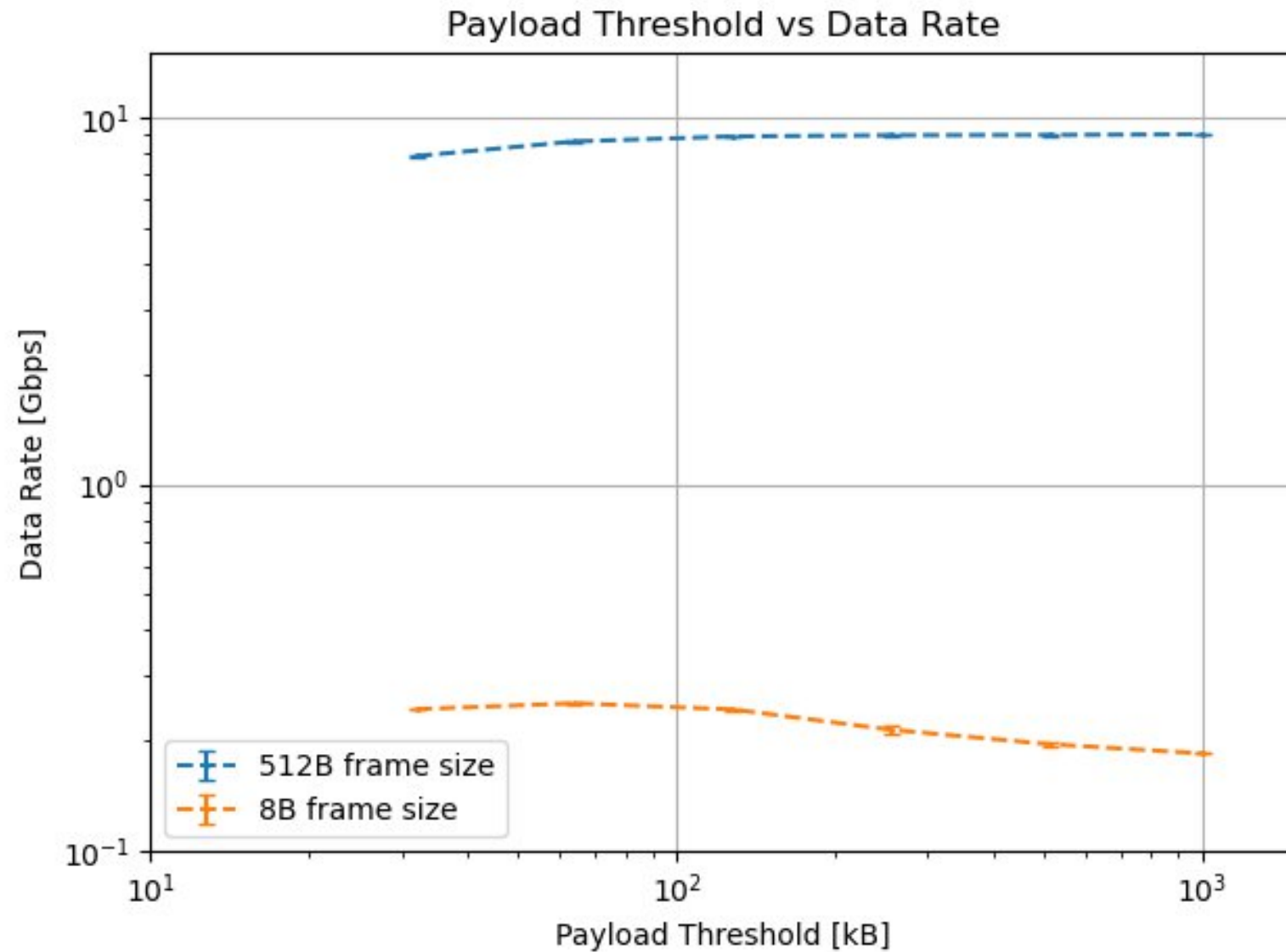
- Group frames together until a certain threshold is reached, then send message
- Requires a bit more encoding/decoding work
- Use a better memory allocator and atomic queues

Let's take a look at some benchmarks

# Benchmarks



# Payload threshold matters!



# Thank you

## Contact

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