

The very next steps for software: streaming

- ▶ A protocol generator: A bit-level definition of a data stream
 - ▶ SRO will need efficient packing. Also: Hardware often dictates format.
 - ▶ Will generate
 - ▶ Encoder/Decoder in native language (multiple targets)
 - ▶ Data generator for testing
 - ▶ I'm working on this. So far: Prototype language, latex back end
- ▶ Software to help organize data files. Should we go for a object based storage system instead of POSIX?

The very next steps for software: general

- ▶ Make analysis, simulations, etc reproducible, archiveable, distributable. **Do we need a software distribution system?**
 - ▶ We should start early, so people get used to it.
 - ▶ Also helps in standardizing work flow
 - ▶ But must be scalable! Something I can do on my laptop, or a cluster
 - ▶ Central repo?
- ▶ Based on this: Few! suitable intro projects. They need to be up-to-date.
- ▶ Overview: What software package for what. Describe capabilities AND limitations (e.g. generators)
 - ▶ Opinionated. Don't give too many options!