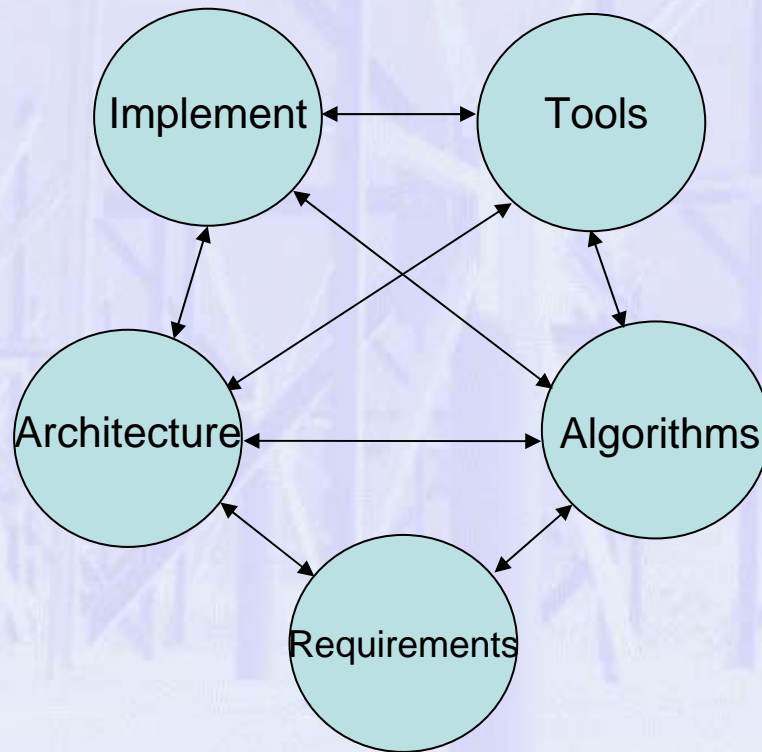


Mapping the software onto the RTC

Bob Sault

Development process



Requirements

- Science
- Sky
- Instrument

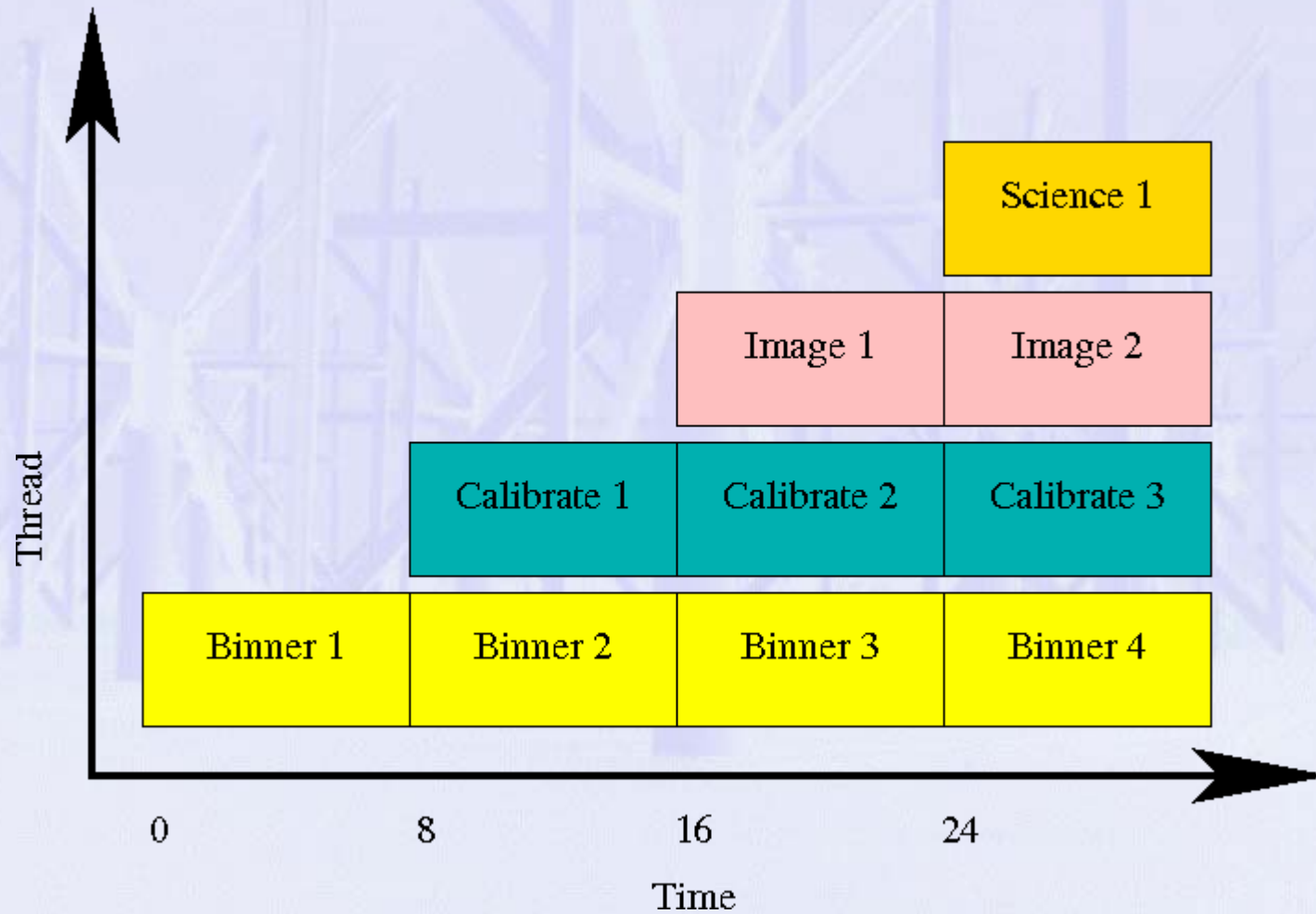
Decompose by frequency

- “Natural” decomposition
 - Fits well with the output of the correlator (?)
 - Modest intercommunication requirement
 - Minimise moving the data around

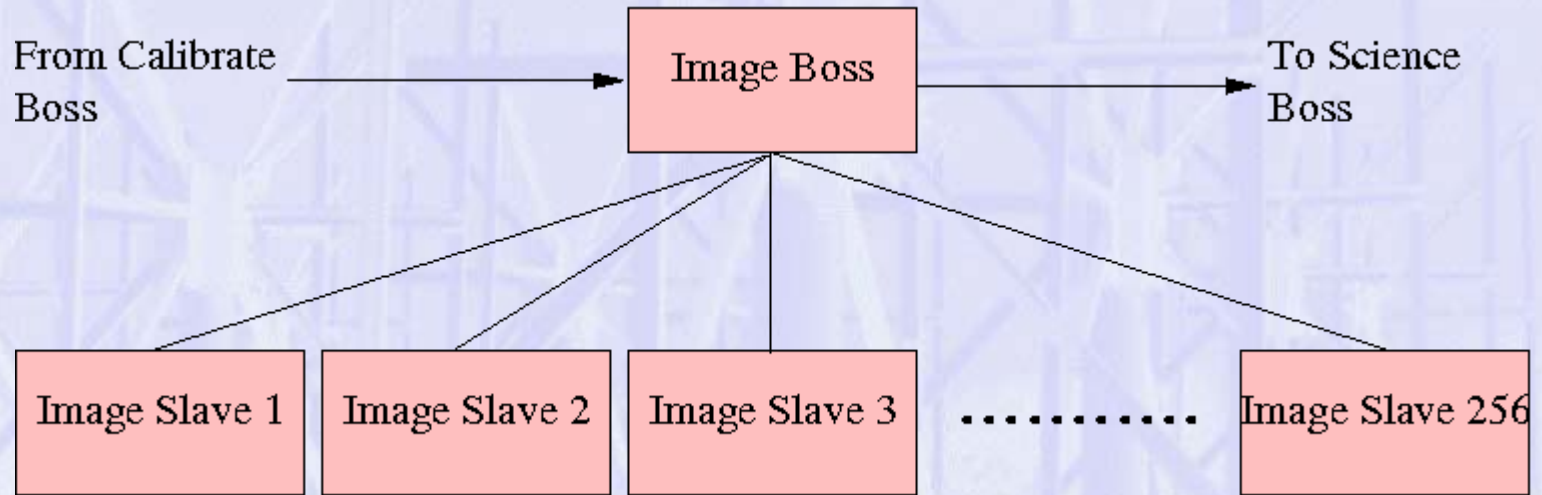
Computational requirement

- 256 nodes, 1024 cores
- 256 GigE connections to correlator

Pipeline



Boss/slave



Issues

- Is this a good match with the correlator output?
- Is the number of channels per node OK?
- Will the computation be adequately balanced?

... for 32T

- Only 1-node binner/uvFITS writer envisaged.
- What is the correlator interface?