Mapping the software onto the RTC

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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
Boss/slave

From Calibrate Boss

Image Slave 1  Image Slave 2  Image Slave 3

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Image Slave 256

To Science Boss
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?