

EVLA Computing Overview

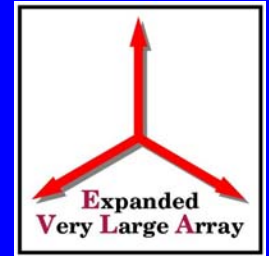
Gareth Hunt

EVLA Advisory Committee

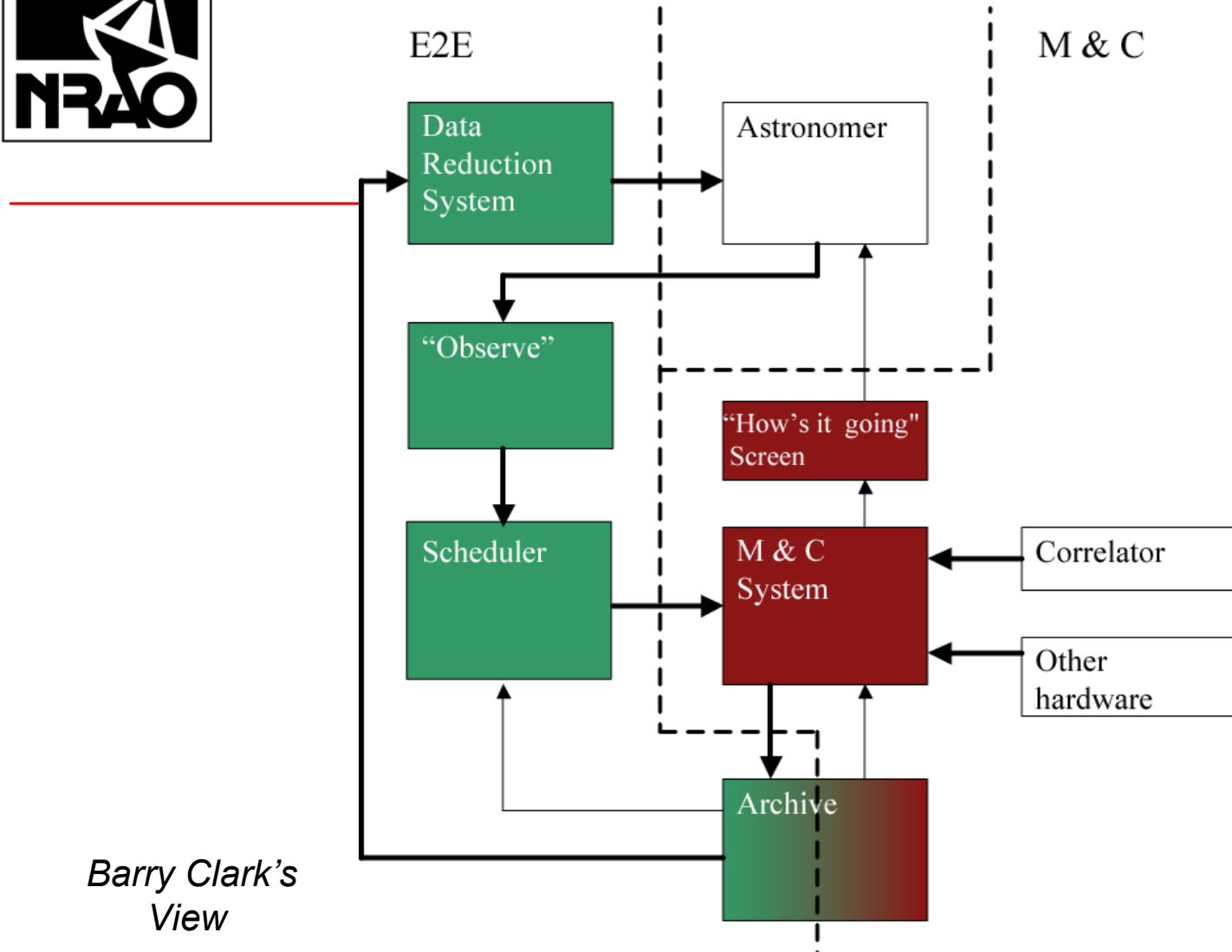
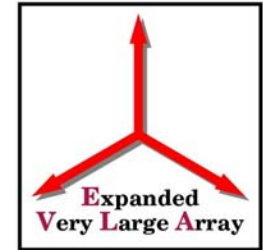
2002 June 10-11



Computer Subsystems



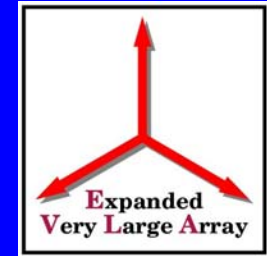
- e2e
- Monitor and Control
- Correlator





Progress summary

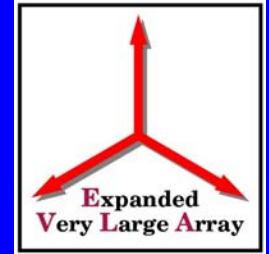
M&C



- M&C has critical deadlines to meet in 2003
 - First antenna outfitting in April 2003
- The major effort has been to specify and acquire a M&C Interface Board (MIB) for the antennas
- The RFI requirements of the MIB have placed very tight constraints on the options
 - Presently one chip and one RTOS
- Limited success in hiring has placed a huge burden on the staff



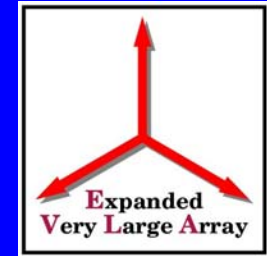
Progress summary M&C (Good News)



- The antenna MIB chip has been selected
 - Several chips delivered
 - A prototype board has been assembled
- The RTOS order was placed last week
- One position filled
 - One other offer made



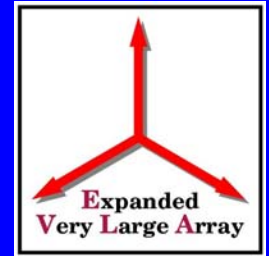
Progress summary M&C (Bad News)



- Overall design not yet in place
- Detailed plan for test antenna software not yet available
- Strategy for operating three antennas in 2004 not developed
 - Need to look at other Telescope control systems
- Three positions still unfilled
 - *Four* offers declined



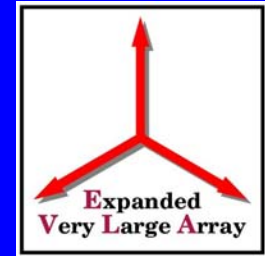
Correlator



- MIB
 - Less stringent RFI requirements – in a screened room
 - Will probably use a more standard chip and real-time Linux for MIB
- Initial design documents for back-end data processing are complete
- NRAO computer staffing complete



e2e



- Test data archive (Storage Area Network) installed
- Prototype pipeline tested
- PDR for EVLA is July 18-19, 2002
- One position filled
- One offer declined
- Two other offers (NVO, ALMA) accepted