

Joint MMA/LSA Software Development Strategy

Project Organization

- Assumptions:
 - US and European joint project management team
 - Unanimous or conflicts resolved at higher level
 - Common scientific and operational requirements
 - Common technology (e.g., OO?)
 - Common software process
 - Iterative, incremental
 - Joint high-level analysis and design group
 - Specification of subsystems and interfaces
 - Lengthy face to face meetings
 - Functions during the entire development process

Project Organization (2)

- Central software engineering (testing, integration, code management, software standards) group
 - Mutually agreed standards
- Common software group
 - Computer architecture and standards, communications, common libraries, *etc.*
 - Reuse analysis
 - Utility library development
- Distributed development of subsystems
 - Single institute has responsibility for further design and implementation
 - May further “subcontract” some parts of the subsystem

Software for test antenna and interferometer

- Goal: develop this software using the common software and organization
- Decide if feasible by Summer 1999.
- Fallback: Place NRAO software on both antennas
 - This software may be adopted from another institutes control system
 - This software will use what common software and standards are available
- User interface, correlator, analysis probably reusable

Other

- Decide on RTOS, Computer architecture, standards, communications, etc. in +4 months.
 - European meeting within 2 months
 - NRAO Visit in 3 months
- Bandwidth to Chile for software development:
1Mb/s

Organization

