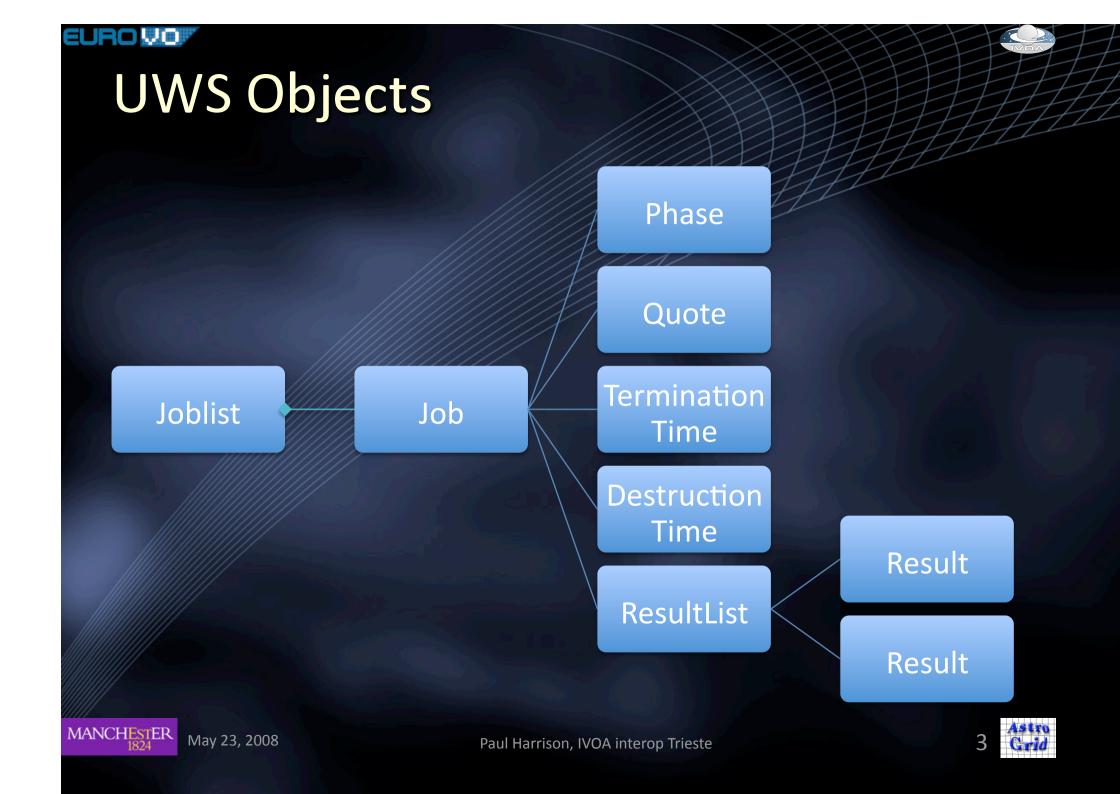


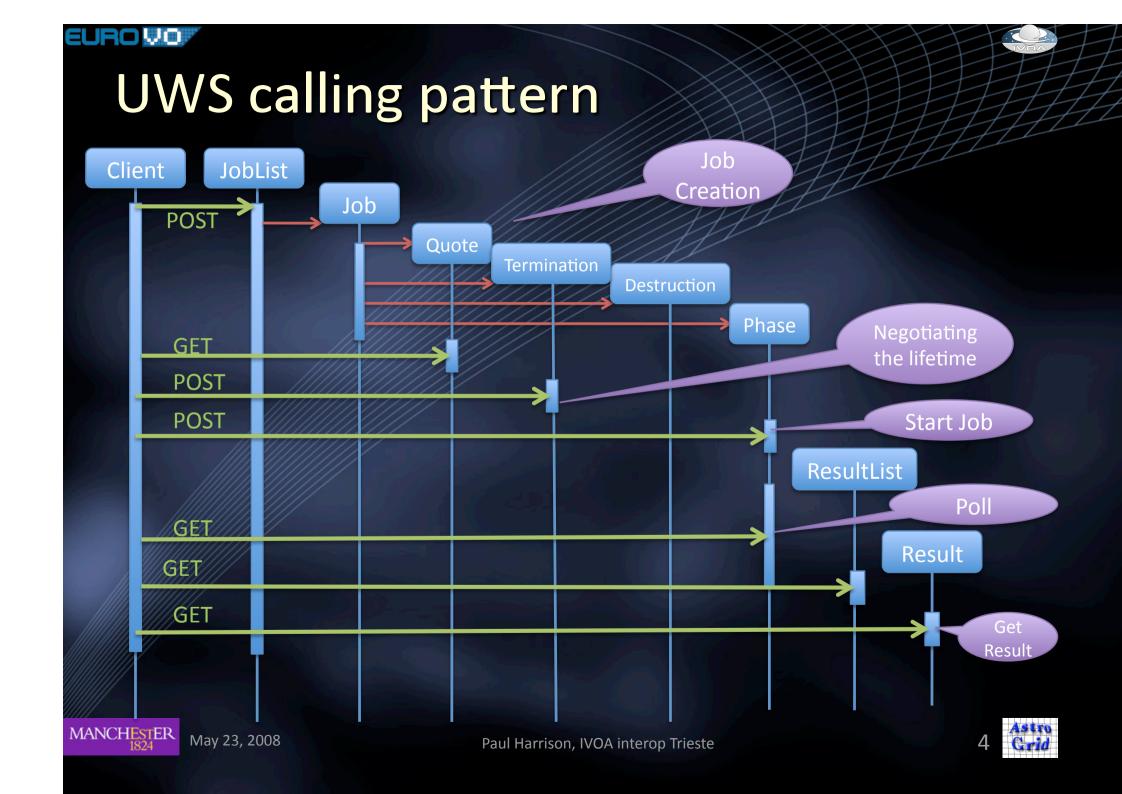


UWS and CEA?

- Universal Worker Service
 - A pattern for controlling a asynchronous stateful jobs
 - Has REST and SOAP interface definitions
- Common Execution Architecture
 - A pattern for controlling a asynchronous stateful jobs
 - An abstraction from underlying technologies
 - Has SOAP interface definitions
 - A model of an "application" and its parameters (UWS-PA)
 - Is implemented by Astrogrid as component known as a "CEC"
 - A container that makes applications VO compliant.





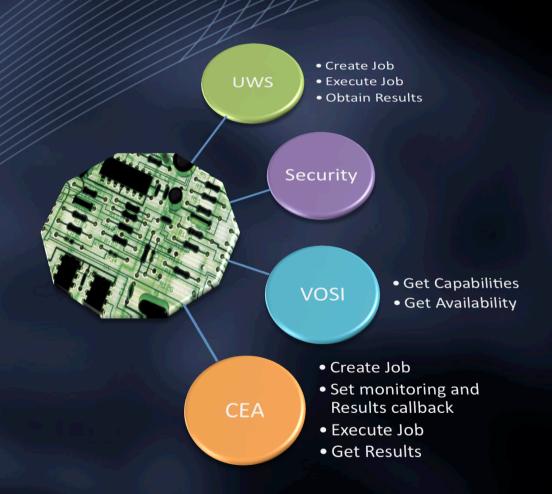




CEA CEC Component

Common Execution Controller

- J2EE Component using
 - Spring
 - Axis 1.3 for SOAP
 - JAXB2 for XML binding
 - Chiba for XForms





Demo -To Show

- Driving same core from CEA (SOAP) and UWS (REST) interfaces
 - Driving from a Browser
 - Driving from the commandline
 - Driving from VODesktop
- Features
 - Asynchrony
 - Job control
 - Automatic killing
 - Automatic destruction
 - Putting results in VOSpace
 - Retrieving results directly VOSpace not needed.
- Applications
 - Demo Application Test application to show job control
 - Real Application MERLIN imager.







- Destruction Time object the time when the job description and any results will be deleted. Termination time to be a CPU duration.
 - /(jobs)/(jobid)/destruction
- 2. Control of job execution is done via POST to the phase run, abort
- 3. New phase ABORTED
- 4. Error object any errors associated with the job can be obtained with a HTTP GET
 - -/(jobs)/(jobid)/error

More detail in http://www.ivoa.net/internal/IVOA/AsynchronousHome/ImplementingUWS-0.1.pdf





Issues to be resolved

- Schema
 - Job and result list
 - Extensions of the schema.
 - +WSDL for the SOAP version...
- Specify the name of the http parameter for all POST style operations
- Specify what should be returned for each operation
 - A 303 redirect to GET the URI just POSTed to?
- What is the Quote "don't know" value.
- Results before completion potentially useful, but was disallowed by the 0.3 version.
- UWS interface type in the Registry Schema Model.
- UWS HTML representation
 - How complete the UI?
 - What technologies can be assumed for building the UI?
- Security who is allowed what access to a job.
- (Pseudo-)Synchronous operation?





Conclusions

- UWS relatively easy to implement
 - REST style easy to drive.
- UWS Pattern allows
 - Shorter Standards to be written
 - Only the specifics of the particular protocol need to be specified – all detail of how to invoke the service is contained within the pattern.
 - Generic software components to be written both on client and server that can deal aspects of several protocols.
- Astrogrid CEA is a potential "DAL v2 Toolkit"
 - Written in a modular component style.
 - Astrogrid DSA already built around CEA core.

