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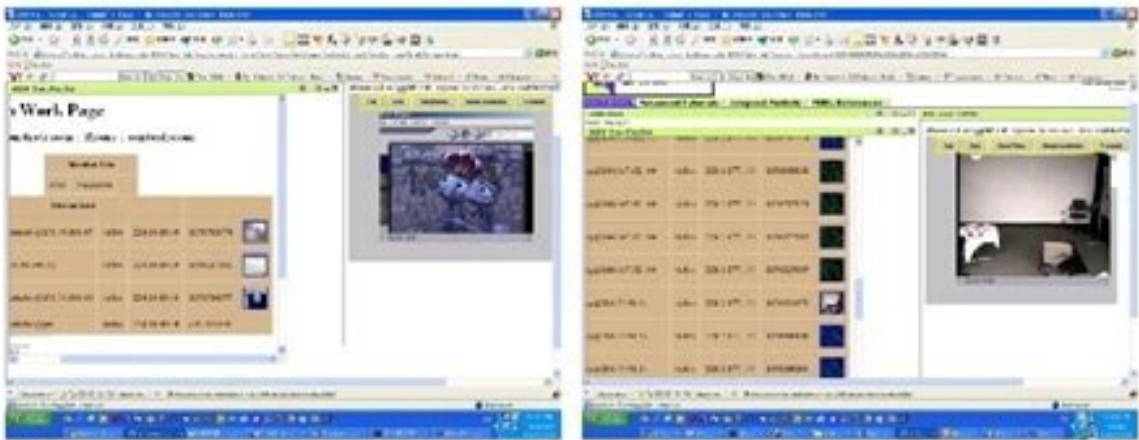

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Next

Future Work: Semantic Grids

- Investigating Semantic Web
 - To be explored in the context of Earth Sciences.
 - This community already has established a sizable set of metadata ontologies and services
 - We will explore the problem of doing intelligent service discovery.

Unicast AG Portlet



More Challenges

- Keep track of the work
- Effectively interrogate the data
 - Metadata tied to and permanently associated with the data
 - Searching by input & output characteristics
- Improved data organization & retrieval

An “Extended” ANT Workflow Interpreter

Objective

Extend the Ant Engine to include task execution in which data (input/output) is shared between tasks and which is Turing-complete.

Method

Incorporate at least the following interpreter-like functionality:

ENVIRONMENT REFERENCE CONTAINER	contains both a flat, globally scoped environment and a stack points into the ENVIRONMENT mediates between Task and ENVIRONMENT through the WRAPPER = <i>Sequential, Parallel, Synchronized, Loop, Condition Block</i> side-effects the ENVIRONMENT
ASSIGN WRAPPER PARAMETER	wraps a Task with its PARAMETERS and RETURN VALUES provides either a literal or a REFERENCE for the value of a Task mutator method
RETURN VALUE	tells which Task accessors should be called to return values to the ENVIRONMENT

XGSP Framework

- To integrate heterogeneous systems into one collaboration system, we need to reach the following goals:
- (1) Different kinds of application endpoints should join leave in the same collaboration session.
- (2) Different providers for multipoint A/V and data collaboration should be connected together to build unified A/V and data multipoint channels.
- (3) A common user interface should be present for all the collaboration participants using different A/V and data application endpoints.

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