



1. A trace for debugging
2. Supplementary material for Audit & Review

Experience:

- Focus on dataflow. Retries, looping, Iteration strategies are transparent.
- Both starting point terms (simpler queries) and qualified terms (interoperability).
- Wfdesc to describe Plan details.
- Wfprov to link up PROV to Wfdesc, and to describe the data & resources (encodings, paths, endpoints).
- Locally generated, UUID-based, structured URIs. Container URIs problematic with PROV Toolbox.

Future Work:

- Provenance for CWL (Common Workflow Language).
- Layering provenance (enabling OPMW, D-PROV, P-PLAN).
- Toolbox friendly identifiers.

