

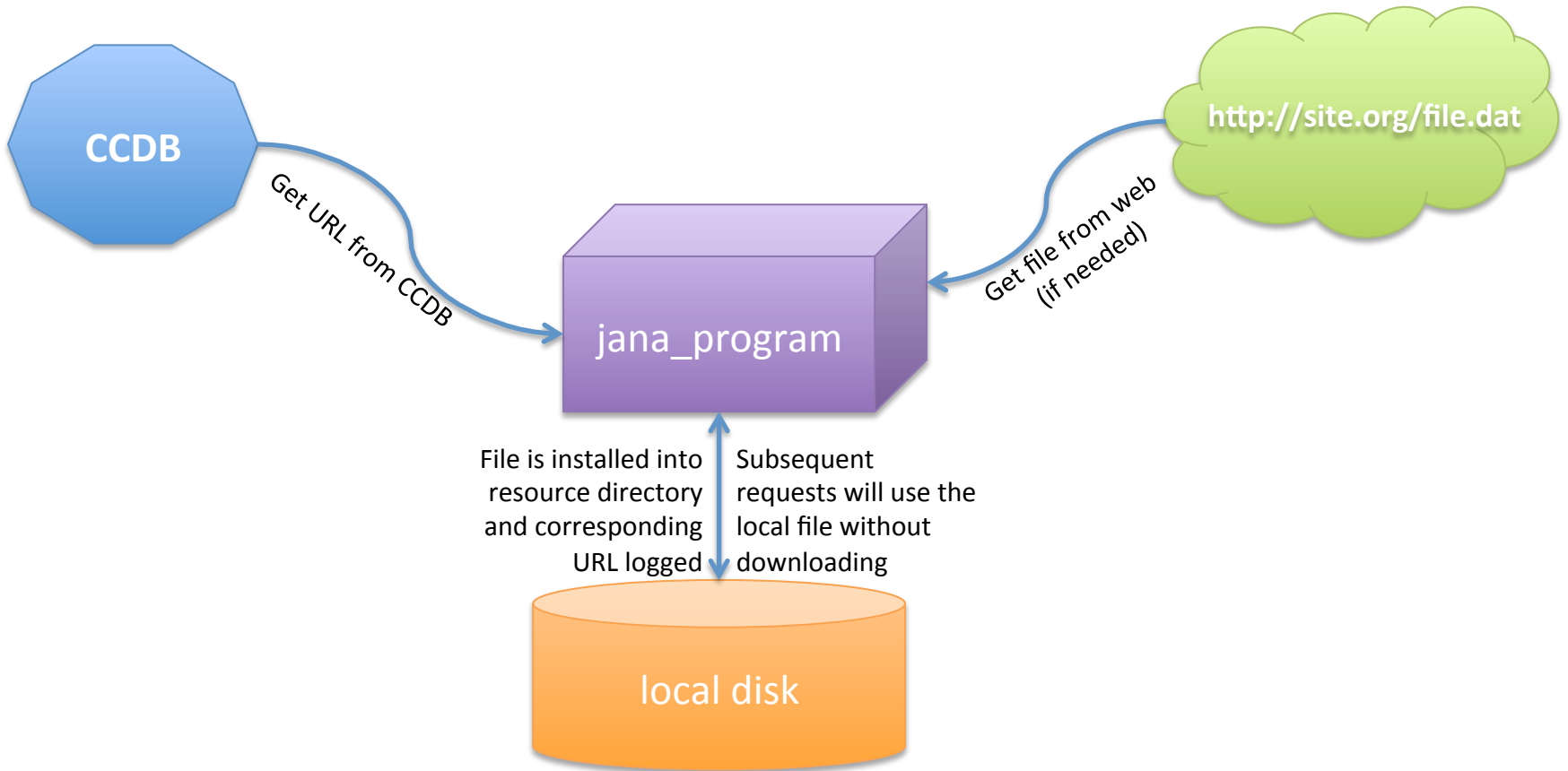
# Resources in JANA

David Lawrence JLab

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# Resources

- A “resource” here is a file needed by reconstruction that doesn’t fit well into the CCDB model (generally because the file is too large)
  - e.g. Magnetic Field Map
- Resources should be available on the WWW
- CCDB is used to manage location (URL) of resource
- Resource manager should minimize the number of copies on the local disk (hopefully only 1!)



# Local Resource Storage

The location of resources on the local file system is determined by a hierarchy of options:

1. Passed as second argument to the constructor
2. Specified in JANA:RESOURCE\_DIR configuration parameter
3. Specified in JANA\_RESOURCE\_DIR environment variable
- ~~4. Use HALLD\_MY environment variable + "resources"~~
5. Create a user directory in /tmp called "resources"

# Resources log file

- The “resources” file is kept at the top-level of the resources directory.
- It is a simple key/value format with the URL and the path to the resource file relative to the top-level of the resources directory
- This makes the resources directory relocatable

```
#  
# JANA resources file Auto-generated DO NOT EDIT  
#  
# Wed Nov 14 11:55:31 2012  
#  
#% URL namepath  
https://halldsvn.jlab.org/repos/tags/calib-2011-07-31/Magnets/Solenoid/solenoid\_1500\_poisson\_20090814\_01 test/fieldmap
```

Resource files existing at a specific URL cannot be modified in order to maintain integrity of the system

Modifications must be renamed to provide a unique URL

# Local directory tree

- When a resource is requested, the CCDB is asked for the constants using the given *namepath*
  - E.g. *Magnets/Solenoid/solenoid\_map*
- *URL\_base\** and *path* are returned
  - E.g.  
*URL\_base = https://halldsvn.jlab.org/repos/tags/calib-2011-07-31*  
*path = Magnets/Solenoid/solenoid\_1500\_poisson\_20090814\_01*
- If the JANA:RESOURCE\_URL configuration parameter is set, then it is used to override the *URL\_base* value (if any) stored in the calib DB
- File is stored locally with specified path relative to “resources” directory
  - i.e. the local directory structure and file names mirror the hosts
- If just one of *URL\_base* or *path* is present and not the other, then an exception is thrown