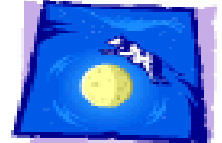
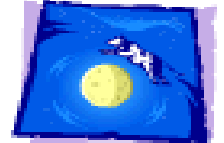


# Building Configurations for Initial Charge-injection Calibration Runs



# Conceptual Stages Involving MOOT

- Define and create a configuration.
  - Provide service, e.g. *configId=makeConfig(file-list)*
  - *file-list* is collection of source files for LATC, LCI, etc.
  - Caller may retrieve output binaries from *configId* for use in next stage.

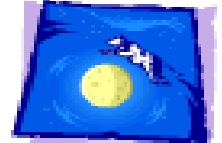


## Stages cont'd

- Determine destination, prepare for upload.
  - $status = \text{prepare}(configId, dest)$
  - For each binary belonging to config, ask fmx to prepare for upload. Make LATC master file if necessary. Result is set of uploadable binaries, known to fmx.
  - Procedure is straightforward: invoke other services; do some bookkeeping.



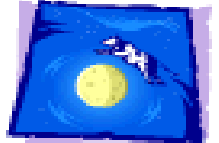
# Stages cont'd



- **Upload**
  - `retrieveForLoad(configId, &fileIdList, &needLoadList)`
  - fileIds will be readily retrievable from configId
  - For sib at least, will be able to determine for each file whether it is already uploaded and avoid re-upload.
- **Select among uploaded configurations; run**
  - Ability to query Configs (to, e.g., display menu)
  - `retrieveForRun(configId, &fileIdList)`
  - Does not return same list as previous service; doesn't necessarily include all arguments to start-run



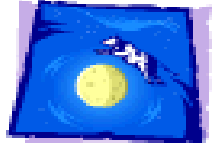
# Status



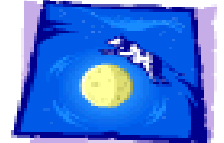
- The most complex part of the logic in MOOT is in the first step; that part of it is done. Remaining work there includes
  - Handling of other source types; no surprises expected.
  - Invoking fmx to do the rest. Interface is defined and will do the job.
- Remaining steps are not much more than specific database queries and additional interactions with fmx.
- Total amount of work is noticeable (weeks?) but not huge. However much of it can't begin without the new fmx.



# Inputs needed, issues, etc.

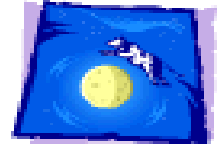


- Fmx. It's on its way.
- What happened to the “ignore for readback” facility?
- Need to revisit single versus multiple databases for MOOT. May want to have a travelling instance for LAT and a fixed SLAC one for testbed. They would be essentially disjoint.

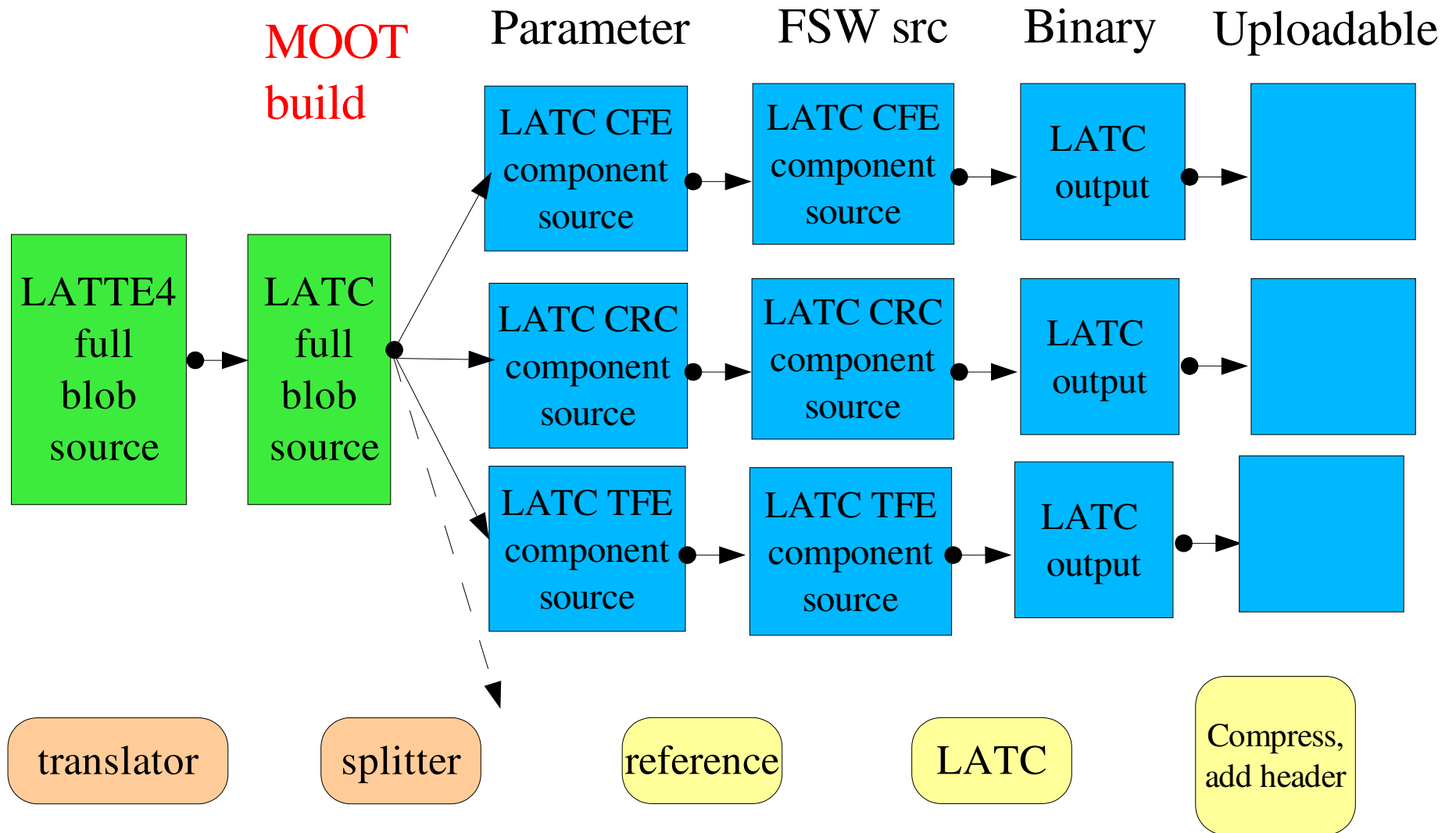


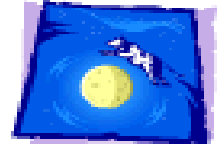
# Old stuff

Remaining slides were part of an earlier presentation and are just here for reference.



# Pipeline for Calib Runs

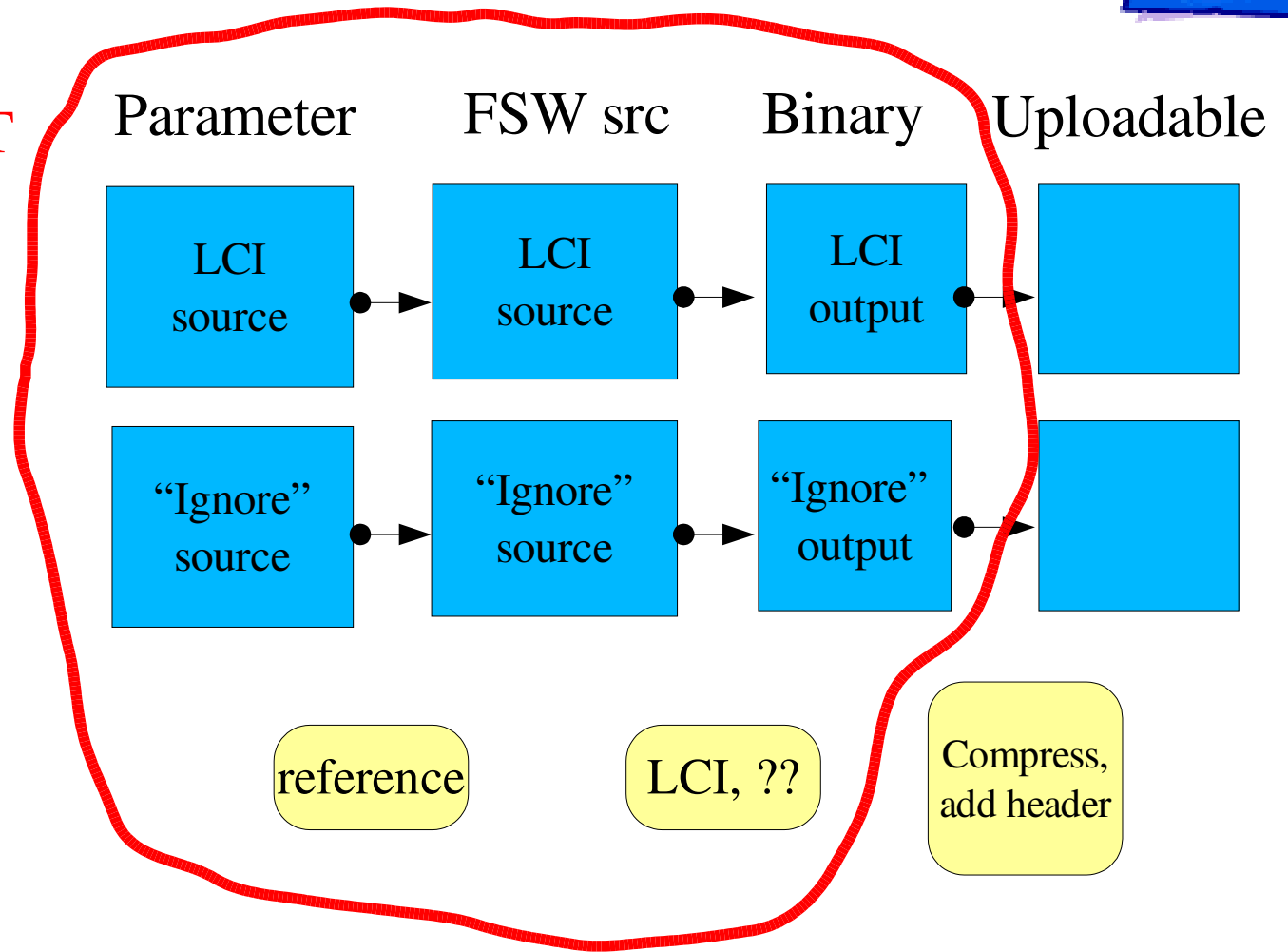




# Pipeline for Calib Runs

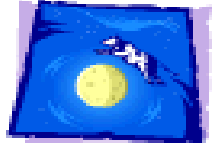
MOOT  
build

Handle non-LATC  
input similarly, but  
simpler





# Status



Excerpt from test program:

```
MOOT::MoodConnection* moodCon =  
    new MOOT::MoodConnection(host, user, pw, dbname);  
  
MOOT::MootBuild moot(moodCon);  
  
std::vector<ParmDescrip> pd;  
pd.reserve(3);  
  
pd.push_back(ParmDescrip("${MOOTROOT}/data/daq_aem.xml", "AEM_parm"));  
pd.push_back(ParmDescrip("${MOOTROOT}/data/daq_gem.xml", "GEM_parm"));  
pd.push_back(ParmDescrip("${MOOTROOT}/data/daq_dft.xml", "DFT_parm"));  
  
unsigned configKey = moot.simpleConfig(pd, "AnotherFirstConfig",  
                                       MOOT::MootBuild::MODE_data,  
                                       "emptyAlg");
```

..results in creation of many entries in dbs, including a row in the Configs table, and three binary files