Reanalysing a run Online, e.g., when recovering from the "dropped datagram problem"

1. Determine *when* the runs were taken. You'll need the day number of the year. One method is:

```
python
>>> from datetime import *
>>> datetime(<yyyy>, <mm>, <dd>).toordinal() - datetime(<yyyy>, 1, 1).toordinal() + 1
```

   Copy the data from `/gnfs/data/DVD/RawPackets/2006<DDD>/` to a local directory, say `~/sci` (where `DDD` is the day of year from above). The date and time found in the `eLog` runs section is the same as used in the `.../RawArchive/*` directories. Only the `*_SCI.pkt` files that span the run of interest are needed.

2. `mkdir ~/sci/lsf`

3. Using the `glast` account on a `lat-licos*` or equivalent (i.e., a machine that has `LICOS_Scripts` installed):

```
python $ONLINE_ROOT/LICOS_Scripts/analysis/LsfWriter.py --lsd_dir=~/sci --lsf_dir=~/sci/lsf
```

   Determine which of the output files is the run you want. File format is:

4. `<ApId>-<GroundId>-<Time>-<nFirst>-<nEnd>.lsf`

   `GroundId` is the run number, without the 077000000, in hex. Verify that `nFirst` is 0000.

5. Login to lat-dmz01 and enter the following to connect to the MySQL database:

```
mysql --user elogbook elogbook --password
```

   (enter the password at the prompt)

6. Enter the following command to reset the analysis state:

```
update LICOS_activities set JobCompleteList = '[None]', AnalysisState_FK = 7 where RunID_FK =
'077RRRRRR';
```

   (replace 077RRRRRR with the acquire run id)

7. Copy the `lsf` file(s) to "`/nfs/data/lsf/`.". If the corresponding DAQ run had multiple *steps*, there will be multiple `lsf` files.

8. `AnalysisEngine` will see them and should be able to reprocess the run.