The Pipeline Stages

The OTFR Pipeline will consist of the following stages (visible as columns on the OMG , the Observation Manager graphical display):

POL xxx
Poll for OTFR requests and convert them into OSFs (Observation Status Files) which send datasets through the OTFR pipeline

LST xxx
Produce a list of telemetry (POD) or EDT files that will be needed from the archive in order to reprocess the requested dataset

ARQ xxx
Generate an archive request for the list of POD or EDT files.

WAK xxx
"podwhack" (i.e. segment) each POD file into one dataset per POD file (for instruments with multiple exposures per POD).

MOV xxx
transfer the segmented POD files or EDT files to the HST science pipeline

COL xxx
monitor the HST science pipeline for the products necessary to complete an OTFR request

G2F xxx
convert GEIS (and ASCII) files to FITS for *all* instruments (all instruments will have ASCII files, at least)

RET xxx
copy FITS files back to DADS disk

RSP xxx
create OTFR_response file and copy it back to DADS disk

CLN xxx
clean up (delete) files and directories in the OTFR and HST science pipelines

There is an additional process, GETREQ, that retrieves OTFR requests from the remote DADS system and copies them to the OTFR system to start them in the pipeline. This process feeds data to the OTFR pipeline, and therefore does not show up in the pipeline stages listed in the OMG. Consider it the "jump start" process for the OTFR pipeline.

The characters "xxx" above imply the stage will have an instrument specific OPUS process resource file , i.e. POLWF2, POLNIC, POLSTI, etc., which supplies instrument specific parameters and directory names to the process being run. This allows a single piece of code to run using different input parameters.

GETREQ (required process, does not show up in the pipeline stages)

Trigger: Delta–time poller (awakens at periodic time interval)

Summary:

Awakens periodically (DELTA_TIME) to check the OTFR request directory (REMOTE_REQUEST_DIR) on a disk local to a DADS VMS machine (RMT_MACHINE) for OTFR request files (REQUEST_FILEMASK). Any OTFR request files found will be copied back to a local directory (OUTPATH_HOLD) on the OTFR UNIX machine via a FTP process (RMT_LOGIN, FTP_PFILE). Once this copy is verified as successful, the OTFR request files will be deleted from the OTFR request