TIMESTAMP_DATASET subdirectory, and removing the subdirectory itself if no files are left in it.

This process begins by opening the **.podlist** file, and attempting to delete files from the calibration (CALDIR), EDT (SISDIR), and POD areas (PODDIR) of the science pipeline for any listed exposure/podname pairs. Files are removed using the first 8 characters of the exposure name and a wildcard to avoid potential trouble with differing last characters. The OSFs in the science pipeline for the exposure and the POD file are also deleted. This continues for every entry in the **.podlist** file. Once these deletions are complete, any OTFR requests that were stuck waiting to submit POD/EDT files to the science pipeline because of a name collision with the files used by this request should now be free to submit their datasets for science processing.
The DATASET is then used to delete product files from the science pipeline directories (CALDIR, SISDIR). The first 8 characters of the DATASET are used with a wildcard so that all sub-products and the main product will be found and deleted. The OSF for the primary product is also deleted (only the primary product has an OSF in the science pipeline). This will now permit science processing to begin for any other OTFR request that was stuck waiting because of a name collision.
Working files are then removed from the OTFR request-specific directory, including those for the DATASET, the TIMESTAMP_DATASET, the **.timeout** file, and all **.pod** files. There shouldn't be any files left in the directory at this point, and if there are not, the directory itself is removed.
If files remain in the OTFR request-specific subdirectory after all of these deletions have been performed, this process will *not* remove the subdirectory (i.e. the clean will be incomplete), and the OSF will be marked with an error.

OPUS Resource file entries

OUTPATH – location of OTFR request processing directories
DATA_REDUCTION_PATH – name of the science pipeline path
CALDIR – location of calibrated files in the science pipeline path
SISDIR – location of EDT set in the science pipeline path
PODDIR – final location of POD files in the science pipeline path

Success Conditions

Removal of data files and OSFs from the science pipeline path for any exposures listed in the .podlist file.
Removal of data files and OSFs from the science pipeline path for any POD files listed in the .podlist file.
Removal of science product data files and OSF from the science pipeline path for this DATASET.
Removal of DATASET, TIMESTAMP_DATASET, .timeout, and .pod files from the OTFR request-specific subdirectory.
Removal of the OTFR request-specific subdirectory from calibration root directory (OUTPATH), if the subdirectory is empty.
OSF.CL = c

Error Conditions

Failed to open .podlist file.
Failed removal of empty directory.
OSF.CL = e

NOTE: Failure to delete files when cleaning will NOT necessarily cause a failure of the CLNxxx process *unless the files are in the OTFR request-specific subdirectory*. Problems cleaning files from the science pipeline are not considered critical.

Changes to the Science Pipeline

OTFR was designed to allow a single set of executable code (programs and scripts) to be used for both the pre-archive and OTFR pipelines. Separate sets of resource files and the ability to bring up different combinations of processes under OPUS facilitate this design. Here are some of the differences between the pre-archive and the OTFR science pipelines: