Failure to test an OSF in the science pipeline path
Multiple OSFs found for DATASET in the science pipeline path
Failure copying files from the science pipeline to the OTFR request-specific subdirectory
OSF.DC = e

G2Fxxx

Trigger: OSF = 'w' in 2F stage

Summary:

This stage performs a GEIS-to-FITS conversion for WF2 and other pre-SM97 instruments, converting all files that appear to be GEIS or ASCII files to FITS format. This stage will also be run for post-SM97 instruments (STIS, NICMOS, ACS) to perform conversion of text files (trailer file, etc.) to FITS format.

The STSDAS task **`stwfits`**, which is found in the path defined by the TABLESDISK environment variable, will be run to perform this conversion. There may be existing FITS files in the OTFR request-specific directory (copied from the OTFR science pipeline), so these will need to be deleted for pre-SM97 instruments before running STWFITS, since it will not overwrite them. This is **not** done for post-SM97 instruments, since FITS files are legitimate parts of the calibrated dataset.

Any calibration trailer files (`*.tra`) returned from the science pipeline processing are renamed to `*.trl` before being converted to FITS. This is because **`stwfits`** recognizes certain file extensions, and `.tra` is not one of them.

The construction of the FITS filename follows these rules for all files matching the filemask `??????????.???` (this leaves out the DATASET_???.FITS files created for STIS, NICMOS, and ACS) :

1. If the filename ends in "`.??d`" then the file is assumed to be a GEIS data file and is skipped. It is assumed that this file will be converted when the corresponding GEIS header file is converted.
2. If filename ends in "`.??h`" then the file is assumed to be a GEIS header file. The ending "h" in the file extension will be converted to "f" and the FITSNAME will be "`DATASET_??f.fits`"

The stwfits tasks requires use of a format file. A specific one in the IRAF software tree is referenced in terms of the environment variable TABLESDISK and a relative directory name in the FORMAT_DIR process resource parameter.

OPUS Resource File Entries

FORMAT_DIR – relative directory name for locating a format file used by stwfits (directory relative to TABLESDISK value)

Success Conditions

GEIS and ASCII files in the working directory will be converted to FITS files.
OSF.2F = c
OSF.RE = w

Error Conditions

Error deleting existing FITS file before conversion.
Failed STWFITS.
OSF.2F = e
No datasets processed by STWFITS (nothing returned from the science pipeline, since all instruments at