

Table 20.4: Typical STIS Output Products by Observation Type

Observation Type	Uncalibrated Files	Calibrated Files
ACQ, ACQ/PEAK	_raw	none
IMAGING, ACCUM MODE, ASSOCIATED SET (crsplit or repeatobs)	_raw, _spt, _asn, _trl	_flt, _crj, _sfl, (MAMA only), _crj (CCD only)
IMAGING, ACCUM MODE, Single Exposure	_raw, _spt, _asn, _trl	_flt
FIRST ORDER SPECTROSCOPY, ACCUM MODE ASSOCIATED SET (crsplit or repeatobs)	_raw, _wav, _asn, _spt, _wsp, _trl	_flt, _sx2, _sx1 _crj (CCD only)
FIRST ORDER SPECTROSCOPY, ACCUM MODE Single Exposure	_raw, _wav, _asn, _spt, _wsp, _trl	_flt, _x2d, _x1d
ECHELLE SPECTROSCOPY, ACCUM MODE single exposure or ASSOCIATED SET	_raw, _wav, _asn, _spt, _wsp, _trl	_flt, _x2d, _x1d
TIMETAG IMAGING and SPECTROSCOPIC	_tag + ACCUM extensions	ACCUM extensions

Figure 20.2: Contents of Association Table

To display the association table for o3tt01010_asn.fits:

```
>tread o3tt01010_asn.fits
# row MEMNAME          MEMTYPE          MEMPRSNT
#
1  O3TT01AVR           CRSPLIT          yes
2  O3TT01AWR           CRSPLIT          yes
3  O3TT01AXR           WAVECAL          yes
4  O3TT01010           PRODUCT          yes
```

The association table above tells the user that the product, or data set, will have the rootname o3tt01010, that there will be two science exposures contained in the o3tt01010_raw.fits file which are CRSPLITS, and that a o3tt01010_wav.fits file should exist containing the contemporaneously obtained automatic wavecal. The o3tt01010_raw.fits file will contain six image extensions, one triplet of {SCI, ERR, DQ} for each exposure (see Figure 20.1). The pipeline will calibrate this data as a unit, producing a single cosmic ray rejected image (*rootname_crj.fits*) along with its data quality and error images as well as rectified spectra. Similarly, for REPEATOBS observations, in which many identical exposures are taken to obtain a time series, all the science data will be stored in sequential triplet extensions of a single FITS file. These will be processed through the **calstis** pipeline as a unit, with each image extension individually calibrated and the set of images also being combined to produce a total time-integrated, calibrated image. See Chapter 21 for more information about the pipeline processing.