

MS->Scantable conversion

MAIN Keyword

Name	Scantable	Note
MS_VERSION		
SORT_COLUMNS		

MAIN Column

Name	Scantable	Note
UVW		Always [0,0,0]
FLAG	FLAGTRA	
FLAG_CATEGORY		
WEIGHT		
SIGMA		
ANTENNA1		Ref ID (ANTENNA)
ANTENNA2		Ref ID (ANTENNA)
ARRAY_ID		Ref ID
DATA_DESC_ID		Ref ID (DATA_DESC)
EXPOSURE		
FEED1	BEAMNO	Ref ID (FEED)
FEED2		Ref ID (FEED)
FIELD_ID		Ref ID (FIELD)
FLAG_ROW	FLAGROW	
INTERVAL	INTERVAL	
OBSERVATION_ID		Ref ID (OBSERVATION)
PROCESSOR_ID		Ref ID (PROCESSOR)
SCAN_NUMBER	SCANNO	Renumbered
STATE_ID		Ref ID (STATE)
TIME	TIME	
TIME_CENTROID		
FLOAT_DATA	SPECTRA	

ANTENNA Column

Name	Scantable	Note
OFFSET		

POSITION	AntennaPosition (Key)	Only first row
TYPE		
DISH_DIAMETER		
FLAG_ROW		
MOUNT		
NAME	AntName (Key)	Only first row
STATION		

DATA_DESCRIPTION Column

Name	Scantable	Note
FLAG_ROW		
POLARIZATION_ID		
SPECTRAL_WINDOW_ID		Ref ID (SPECTRAL_WINDOW)

FEED Column

Name	Scantable	Note
POSITION		
BEAM_OFFSET		
POLARIZATION_TYPE		
POL_RESPONSE		
RECEPTOR_ANGLE		
ANTENNA_ID		Ref ID (ANTENNA)
BEAM_ID		
FEED_ID		ID
INTERVAL		
NUM_RECEPTORS		
SPECTRAL_WINDOW_ID		Ref ID (SPECTRAL_WINDOW)
TIME		

FLAG_CMD Column

Name	Scantable	Note
FLAG_COMMAND		

TIME

INTERVAL

TYPE

REASON

LEVEL

SEVERITY

APPLIED

COMMAND

FIELD Column

Name	Scantable	Note
DELAY_DIR		
PHASE_DIR		
REFERENCE_DIR		
CODE		
FLAG_ROW		
NAME	FIELDNAME	
NUM_POLY		
SOURCE_ID		Ref ID (SOURCE)
TIME		

HISTORY Column

Name	Scantable	Note
PRIORITY		
ORIGIN		
OBJECT_ID		
APPLICATION		
CLI_COMMAND		
APP_PARAMS		

OBSERVATION Column

Name	Scantable	Note
TIME_RANGE		
LOG		

SCHEDULE		
FLAG_ROW		
OBSERVER	Observer (Key)	Only first row
PROJECT	Project (Key)	Only first row
RELEASE_DATE		
SCHEDULE_TYPE		
TELESCOPE_NAME		

POINTING Column: Path to table is stored

Name	Scantable	Note
DIRECTION	DIRECTION	
ANTENNA_ID		Ref ID (ANTENNA)
INTERVAL		
NAME		
NUM_POLY		
TARGET		
TIME		
TIME_ORIGIN		
TRACKING		
POINTING_OFFSET		
ENCODER		
ON_SOURCE		

POLARIZATION Column

Name	Scantable	Note
CORR_TYPE		
CORR_PRODUCT		
FLAG_ROW		
NUM_CORR	nPol	Only maximum value

PROCESSOR Column

Name	Scantable	Note
FLAG_ROW		
MODE_ID		

TYPE

TYPE_ID

SUB_TYPE

SOURCE Column

Name	Scantable	Note
DIRECTION	SRCDIRECTION	
PROPER_MOTION	SRCPROPERMOTION	
CALIBRATION_GROUP		
CODE		
INTERVAL		
NAME	SRCNAME	
NUM_LINES		
SOURCE_ID		ID
SPECTRAL_WINDOW_ID		Ref ID (SPECTRAL_WINDOW)
TIME		
POSITION		
TRANSITION		
REST_FREQUENCY	RESTFREQUENCY (MOLECULES)	
SYSVEL	SRCVELOCITY	

SPECTRAL_WINDOW Column

Name	Scantable	Note
MEAS_FREQ_REF	FreqRefFrame (Keyword)	Only first row
CHAN_FREQ	REFVAL, INCREMENT (FREQUENCIES)	Like as FITS's CRVAL, and CDELTA
REF_FREQUENCY	FreqRefVal (Keyword)	Only first row
CHAN_WIDTH		
EFFECTIVE_BW		
RESOLUTION		
FLAG_ROW		
FREQ_GROUP		

FREQ_GROUP_NAME		
IF_CONV_CHAIN		
NAME		
NET_SIDE BAND		
NUM_CHAN	nChan (Keyword)	Only maximum value
TOTAL_BANDWIDTH	Bandwidth (Keyword)	Only first row
BBC_NO		
ASSOC_SPW_ID		Ref ID (SPECTRAL_WINDOW)
ASSOC_NATURE		

STATE Column

Name	Scantable	Note
CAL		
FLAG_ROW		
LOAD		
OBS_MODE	Obstype (Keyword) SRCNAME	Only first row Only GBT data
REF		
SIG		
SUB_SCAN		

SYSCAL Column

Name	Scantable	Note
ANTENNA_ID		
FEED_ID		Ref ID (FEED)
INTERVAL		
SPECTRAL_WINDOW_ID		
TIME	TIME (TCAL)	
TCAL	TCAL (TCAL)	
TCAL_FLAG		
TRX		
TRX_FLAG		
TSYS	TSYS	
TSYS_FLAG		

TCAL_SPECTRUM_COMPRESSED

TCAL_SPEC

TRUM_SCALE

TCAL_SPECTRUM_OFFSET

WEATHER Column

Name	Scantable	Note
ANTENNA_ID		Ref ID (ANTENNA)
INTERVAL		
TIME		
PRESSURE	PRESSURE (WEATHER)	
REL_HUMIDITY	HUMIDITY (WEATHER)	
TEMPERATURE	TEMPERATURE (WEATHER)	
