E Sample AUTODATA-ALMATI table header

```
         1         2         3         4         5         6         7         8
12345678901234567890123456789012345678901234567890123456789012345678901234567890

XTENSION= 'BINTABLE'           / binary table extension
BITPIX  =                    8 / 8-bit bytes
NAXIS   =                    2 / 2-dimensional binary table
NAXIS1  =                   12 / width of table in bytes
NAXIS2  =                   20 / number of rows in table
PCOUNT  =                    0 / size of special data area
GCOUNT  =                    1 / one data group (required keyword)
TFIELDS =                    3 / number of fields in each row
TTYPE1  = 'INTEGNUM'           / label for field   1
TFORM1  = '1J      '           / data format of field: 4-byte INTEGER
TTYPE2  = 'ANTENNA '           / label for field   2
TFORM2  = '1J      '           / data format of field: 4-byte INTEGER
TTYPE3  = 'DATA    '           / label for field   3
TFORM3  = '1E      '           / data format of field: 4-byte REAL
EXTNAME = 'AUTODATA-ALMATI'    / name of this binary table extension
TDIM3   = '(1,1)   '           / size of the multidimensional array
TABLEREV= 'v1.0 2001-07-03'    / AUTODATA-ALMATI  release
SCAN-NUM=                 2380 / Scan number
OBS-NUM =                 1315 / Observation number
DATE-OBS= '1999-12-02T11:03:07.499' / Date
NO_POL  =                    1 / Number of pols.
NO_SIDE =                    2 / Number of side bands
NO_LO   =                    2 / Number of LO's
NO_PHCOR=                    0 / Number of phase corr. data
CHANNELS=                    1 / number of channels in baseband
BASEBAND=                    1 / Baseband number
TABLEID =                    1 / Baseband table number
TRANSITA= 'CO(1-0) '           / Line Transition A
RESTFREA=  1.0743390000000E+11 / Rest  Freq. A (Hz) at reference channel
TRANSITB= 'CO(1-0) '           / Line Transition B
RESTFREB=  1.0743390000000E+11 / Rest  Freq. B (Hz) at reference channel
INTERFRE=  2.8000000000000E+08 / Intermediate Freq. (Hz) at reference channel
FREQLO1 =  1.0593748708538E+11 / Local Oscillator 1
SIDEBLO1=                    1 / Side Band LO 1
FREQLO2 =  1.8567962909567E+09 / Local Oscillator 2
SIDEBLO2=                   -1 / Side Band LO 2
IFLUX   =       1.00000000E+00 / Flux in I (Jy)
1CTYP3  = 'FREQ-FRQ'           / Observed Frequency axis
1CRPX3  =       1.00000000E+00 / reference pixel
1CRVL3  =  1.0751428337633E+11 / Observed Freq.(Hz) at ref. pixel in Hz
11CD3   =      -1.52000000E+08 / Channel separation in Hz
2CTYP3  = 'STOKES  '           / Stokes axis
2CRPX3  =       1.00000000E+00
2CRVL3  =      -5.00000000E+00
22CD3   =      -1.00000000E+00
END
```

```
         1         2         3         4         5         6         7         8
12345678901234567890123456789012345678901234567890123456789012345678901234567890
```

F Sample HOLODATA-ALMATI table header

```
         1         2         3         4         5         6         7         8
12345678901234567890123456789012345678901234567890123456789012345678901234567890

XTENSION= 'BINTABLE'           / binary table extension
BITPIX  =                    8 / 8-bit bytes
NAXIS   =                    2 / 2-dimensional binary table
NAXIS1  =                   28 / width of table in bytes
NAXIS2  =                   32 / number of rows in table
PCOUNT  =                    0 / size of special data area
GCOUNT  =                    1 / one data group (required keyword)
TFIELDS =                    7 / number of fields in each row
TTYPE1  = 'INTEGNUM'           / label for field   1
TFORM1  = '1J      '           / data format of field: 4-byte INTEGER
TTYPE2  = 'HOLOSS  '           / label for field   2
TFORM2  = '1E      '           / data format of field: 4-byte REAL
TTYPE3  = 'HOLORR  '           / label for field   3
TFORM3  = '1E      '           / data format of field: 4-byte REAL
TTYPE4  = 'HOLOQQ  '           / label for field   4
TFORM4  = '1E      '           / data format of field: 4-byte REAL
TTYPE5  = 'HOLOSR  '           / label for field   5
TFORM5  = '1E      '           / data format of field: 4-byte REAL
TTYPE6  = 'HOLOSQ  '           / label for field   6
TFORM6  = '1E      '           / data format of field: 4-byte REAL
TTYPE7  = 'HOLOQR  '           / label for field   7
TFORM7  = '1E      '           / data format of field: 4-byte REAL
EXTNAME = 'HOLODATA-ALMATI'    / name of this binary table extension
TABLEREV= 'v1.0 2001-07-03'    / HOLODATA-ALMATI  release
SCAN-NUM=                 8713 / Scan number
OBS-NUM =                   93 / Observation number
DATE-OBS= '2000-06-23T22:49:31.999' / Date
NO_POL  =                    1 / Number of pols.
CHANNELS=                    1 / number of channels in baseband
BASEBAND=                    1 / Baseband number
TABLEID =                    1 / Baseband table number
TRANDIST=       3.00000000E+02 / Transmitter Distance (m)
TRANFREQ=  8.6243000000000E+10 / Transmitter Frequency (Hz)
TRANFOCU=       1.01230003E-01 / Focus Offset (m)
END

         1         2         3         4         5         6         7         8
12345678901234567890123456789012345678901234567890123456789012345678901234567890
```

G References

References

[1] "Definition of the Flexible Image Transport System (FITS)", NOST 100-2.0, 1999.

[2] Cotton W.D., Tody, D.B., and Pence, W.D., 1995, "Binary Table Extensions to FITS", *Astron. Astrophys. Suppl.*, **113**, 156-166

[3] "Representation of World Coordinates in Fits", 2000 (`http://www.nrao.edu/~egreisen/`).