Subject: Help w/Plotting
Posted by akk on Fri, 11 Jun 1999 07:00:00 GMT
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Hi,

I have a graph of measurements vs time. Both my MeasurementArray and
TimeArray have 55924 elememts
with measurements taken on the hour for 8 years (1973-1980). I would
also like to
indicate on the xaxis the years as they correspond to the time (i.e. After
the first
year's of data have 1973 on the x axis and so on)
  However I am having some trouble
figuring out how to do this. I have tried using the axis prodeure and
graphing:

     YearsArray = [1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980]
     Plot, TimeArray, MeasurementAray
          axis, xaxis = 0,xticks = 7,xtickn = YearsArray, xtitle =
'Yr',xcharsize = 0.9

However, since measurents were only first collected in October 1973,
dividing the xaxis
into 8 even parts would not accurately relate the years to the
Measurments.

I also tried creating another array TimeArrayNew which has the year
markers (i.e. 1973, 1974 etc)
placed in the corresponding time slots:

     YearsArray = [1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980]
     YearIndex = where(TimeArray GT 365.86 and TimeArray LT 365.9,
count)
     print, 'Count: ', count
          NumElem = n_elements(Final_Time)
     TimeArrayNew = intarr(NumElem) ; Initialize Array of size NUmElem
to ZERO
     TimeArrayNew(YearIndex) = YearsArray
     Plot, TimeArray, MeasurementAray
     axis, xaxis = 0, xticks = NumElem-1 ,xtickn = TimeArrayNew, xtitle
= 'Yr',xcharsize = 0.9

Note: NumElem equals 55924
However this yields as an error b/c XTICKN can only have 60 elements:
ERROR: %Keyword array parameter XTICKNAME must have from 1 to 60 elements.

I'm looking for suggestions on can plot the measurements vs time while also indicating the
corresponding Years along the X Axis:

Thanks
(please reply to my email address)

p.s. Also could someone suggest a good IDL website for beginners

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"Internet or BUST !!"