Subject: Resampling data with irregular time base
Posted by krieger on Sat, 05 Jun 1999 07:00:00 GMT
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I have data with an irregular time base, which I would like to resample
in a regular spaced time base. How can I average over all original data
points in each interval of the new time vector without resorting to a
FOR loop?
Currently I am using this horrible kludge:

```
deltat = newtime[1] - newtime[0]
FOR n=0, n_elements(newtime)-1 DO BEGIN
  index = where((oldtime GT (newtime[n]-deltat/2.)) AND $
                (oldtime LE (newtime[n]+deltat/2.)), $
                count)
  IF count GT 0 THEN newdata[n] = total(olddata[index]) / count
ENDFOR
```

Any idea how to transform this in vectorized IDL code? At the moment I
see no way apart from writing the function in C and calling it by
linkimage.

Best

Karl

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