Subject: Create new arrays from series of subsequent integers in an existing array
Posted by vorticitywolfe on Mon, 22 May 2006 22:10:08 GMT
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Hello,

I have been trying to average components of a time series when they meet certain criteria.
For example,

I have values in which I use a where statement to specify the critera

criteria=where(time lt 1000)

and I get an array returned which looks like this

data=[0,1,2,3,4,6,8,9,10]

Now, given this array, I would like to specify individual arrays for any "block" of subsequent numbers with size greater than three.

for this array it would look like this

a=[0,1,2,3,4]
b=[8,9,10]

I tried using the complement keyword in the where statement to put the null values into an array and try to subscript my way through the answer

where(-------,complement=q)

result=data[0:Q(0)-1]
result1=[Q(0):Q(1)]

that turned out to be quite messy especially since I am using multiple files which all have a different "patterns of three or more"

I've messed around with for loops and if statements, but again I have to change those for each individual file. It would be nice to know a technique which could accomplish what I am trying to do:

find series of subsequent integers in an array to make multiple new arrays.

This seems like a simple problem, but I haven't been able to figure it out. Maybe I'm overlooking something... Any help would be appreciated!

Thank you in advance!
Jon