
Subject: Re: how to loop through data?

Posted by [Ammar Yusuf](#) on Wed, 02 Feb 2011 22:42:34 GMT

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On Feb 2, 5:29 pm, smuzz <smussol...@gmail.com> wrote:

> Hi --

>

> I am new to programming in IDL and I want to execute a for loop. The
> data I have contains number of whale calls from different species over
> a 2 month period. I have manually gone through and specified the start
> and end of periods of calling that I want to focus on (i.e. bouts).
> Now I want to look 1 hour before the start of each bout and 1 after
> the end of each bout to total up all the whale calls that I hear from
> the different species. I have about 20 bouts and ideally would like to
> write some sort of for loop that will go through each bout and tally
> up calls, but I am a bit confused how I would go about this since my
> bouts are all different and appreciate any suggestions...

>

> *****

> What I have so far:

>

> ; This finds all the calls for the 1st species
> l = where(auto(*).species eq 7 and auto(*).call_type eq 1 and
> auto(*).start_time gt stime and auto(*).start_time lt etime,lcount)

>

> ; This finds all the calls for the 2nd species
> m = where(auto(*).species eq 7 and auto(*).call_type eq 3 and
> auto(*).start_time gt stime and auto(*).start_time lt etime,mcount)

>

> ; This finds all the calls for the 3rd species
> n = where(auto(*).species eq 10 and auto(*).call_type eq 0 and
> auto(*).start_time gt stime and auto(*).end_time lt etime,ncount)

>

> ; These are the start and end times of a few of my bouts (I've already
> taken care of converting time)

> start_bout1 = '11/19/09 22:30:00'

> end_bout1 = '11/19/09 23:21:00'

> start_bout2 = '11/20/09 02:06:00'

> end_bout2= '11/20/09 02:56:00'

> start_bout3= '11/20/09 19:27:00'

> end_bout3= '11/20/09 20:07:00'

> start_bout4= '11/20/09 21:37:00'

> end_bout4= '11/20/09 22:49:00'

> start_bout.....

>

> *****

>

> Thanks, S

Hi, I'm not sure what exactly you're looking for but I'll give it a shot.

```
for i = 0, n_elements(l) do begin
    print, l[i]
    print, auto[l[i]]
    ; do some stuff with auto[l[i]] because I'm assuming that's the
index that you wanted.
    ; do some more stuff
endfor
```

Not sure if this is what you were looking for.
