Subject: how to loop through data?
Posted by smuzz on Wed, 02 Feb 2011 22:29:18 GMT

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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...

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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......

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Thanks, S