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% TO RUN THE PROGRAM:
% 1.)  Change "roundhours" to the rounded DOWN number of hours in the recording

% 2.)  Change "hr" and "min" to the time of day the recording was started

% 3.)  Change "path2folder" , "filename" (in while loop), and "file" (in while loop)

% as necessary to match the path to the folder where the files are stored

% 4.)  Change "txtfilename" to the name of the Podium project (basically date
% in Year_Month_Day (XX_XX_XX)format)


clear all ; clc;     %deletes existing workspace data and clears command window
profile on  %opens runtime analysis

roundhours = 26; %if longer than 40hr, split up file using audacity
hr = 16; min = 00;
path2folder = 'X:/Evan/';


txtfilename = 'XX_XX_XX';
  txtfilename = [txtfilename '.txt']; %adds .txt

memlength = 10; %code needs this to break up the amount of hours it has to read all
at once.
    %creates break at memlength hours and starts anew so as not to run out
    %of memory

%%
ii = 2;
while ii <= 2

    hour = hr;
    minute = min;

    if ii == 7
        ii = ii + 1;
    end

    filename = 'Track ';
    filenumber = ii;
    fileno = num2str(ii);
    file = [filename num2str(0) fileno '.wav'];
    path = [path2folder file]; %Create string character array for the absolute
pathname

    flight_detect      %calls on flight_detect program. Must be in same file as this
program
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    %opening and formatting txt file
    FID=fopen(txtfilename,'a'); %opens new file for writing/reading. 'a' means it
will append the existing file. If trying to overwrite previous file, manually delete
the previous file first.
    fprintf(FID, '%-8s %-10s %-12s %-8s %-15s %-15s %-12s %-12s\r\n',
'Vial','Time','Flight(s)','Bouts','Avg Duration','Avg Gap(s)','Peak 1(Hz)','Peak
2(Hz)');
    fprintf(FID, '%-8.0f %02d:%0-8d %-12.2f %-8.0f %-15.5f %-15.4f %-12.2f
%-12.2f\r\n', datablock );
    fclose(FID);

    pause(5) % pausing here helps to ensure all graphs are displayed properly

    ii = ii + 1;
end

profile viewer %Allows the user to view stats on the runtime of the program (comment
out if not desired)
```