

Contents

- [Clearing previous data](#)

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% Code Summary:  
% Initial code in which I tried to read each line one by one and then  
% process it. Later learnt that importdata function does the same work much  
% more efficiently. Spent a lot of time on this, as I grappled with  
% fighting the time format from string to char to int.
```

Clearing previous data

```
clc;  
clear all;  
close all;
```

```
% 0 to 313500  
  
vz_arr = zeros(12, 1);  
j=1;  
  
for time = 63500:500:69000  
    A = fileread(convertStringsToChars("C:\IISc\DEM\1case\post\particles_" + time + ".liggghts"));  
    data = splitlines(A);  
    data = data(10:end);  
  
    for i = 1:length(data)-1  
        line = convertCharsToStrings(data{i});  
        all_lines(i, :) = str2num(line);  
    end  
  
    vz = all_lines(:, 8);  
    vz_arr(j, 1) = sum(vz)/length(data);  
    j = j + 1;  
end  
  
plot(vz_arr)
```

