## Synchronisation procedure

## 1. Rou synchronisation.m

- 2. Select force plate data file (.mat) FP-data-ES39 mat
  (This file contains a cell array with the data of
  the four foot pressure sensors and the start and end index
  obtained manually with a modified force Plate Main in
  lile. Also for test purposes.
  - Dossible improvement: Create MATLAB script that does all the steps; that were carried out four test purposes, automatically, so that one only has to select the separate. Ext files that contain the data of one cycle, and wespectively. (10-12 gates per subject)
  - 3. Select GaitWatch data file (GaitWatch... calibrated.mat)
    This file was created by manually running the
    GW main in script and saving the required variables
    as GaitWatch... calibrated. mut file
  - Dossible improvements: Right now Elis Rile only contains a, g, h data. Also pitch, you. etc. should be included. One could write ascript that extects all useful variables for synchronisation and further processing and & Saves them in a ... calibrated mat file.

4. Select cycles manually by clicking and pressing Ele ALT-key. Set Munovkar Johnsond after each cycle and at beginning and end and press 'confinue execution'.

5. Figure 7 shows the detected peaks of a-Z-right-shank

=) The point in Line When patient hits the farce plake with his right foot

If this is correct a should be negativ?

What if the patient steps with left foot Right ??? P Needs to be improved ?

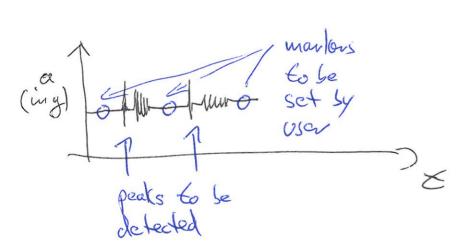
- 6. Figure 2 shows examplary the trunk acceleration Eine series with event markers at the point in Eine when subject hits face plate.
- 7. Figure 3 shows 1. cycle of force sensor Evace overtime with corrected time axis

Voriable- names and comments need to be corrected Since this is the faree sousar data, not the faree plake data

8. Figure 4 shows Ele corrected and recampled
force sensor Grace over Eime. Linear interpolation
was used (note the deviation at the peak (14.55)
Also the same event as in the other time series

Typical acceleration Graph

the was added.



9. Figure 5 shows the whok force sonsor trace with Eventmorters at the point in time when sobject hits the force plate

=> time corrected and resumpted time sories of all 12 cycles