Fitness Technology
Performance Measurement, Training and Rehabilitation Equipment

Curve 3 and Force 3 Treadmill: Using Threshold for flight to correct missed/extra steps or spikes in Step length/rate

Before using the Threshold for flight make sure your filter settings are correct. (for setting your filter settings see the document here)

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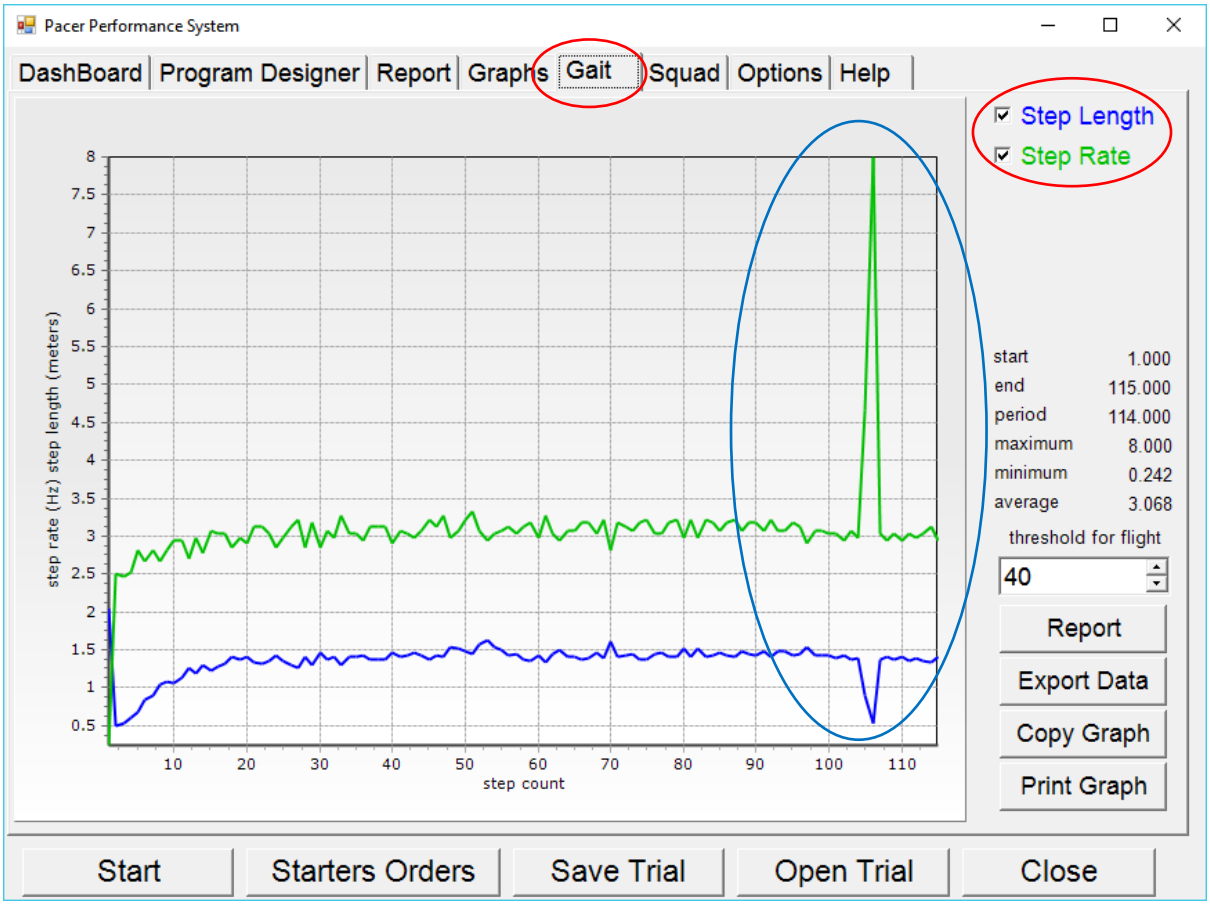
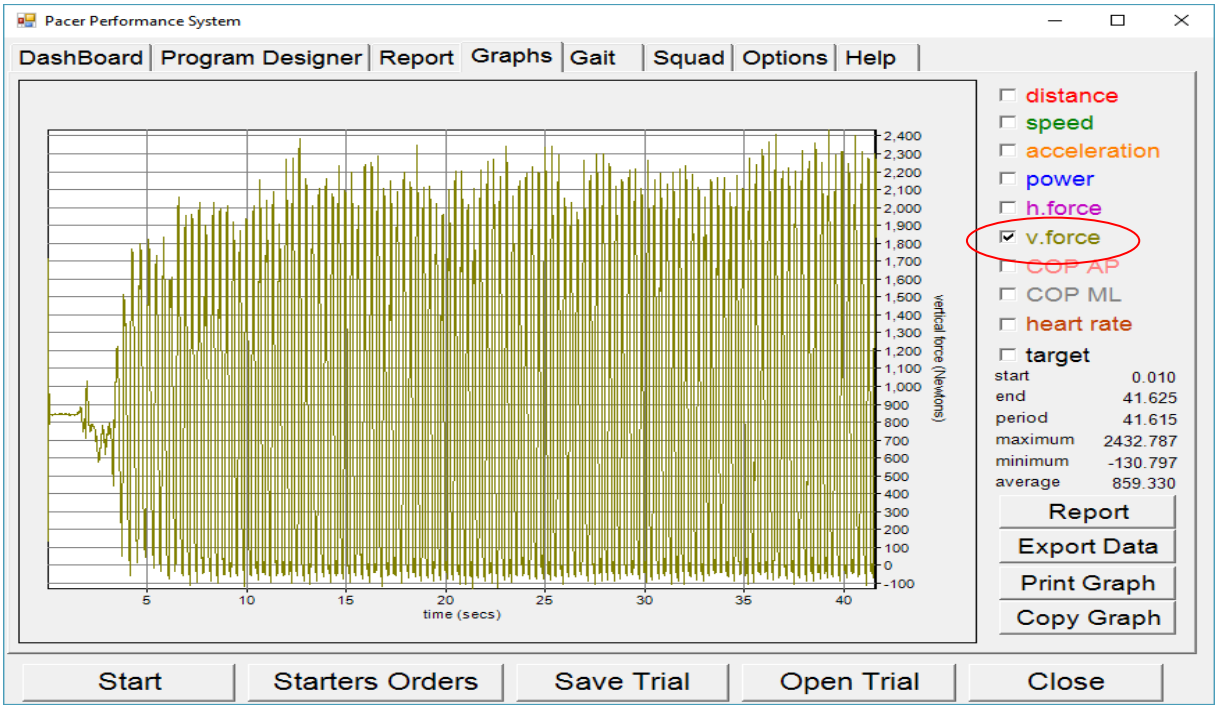
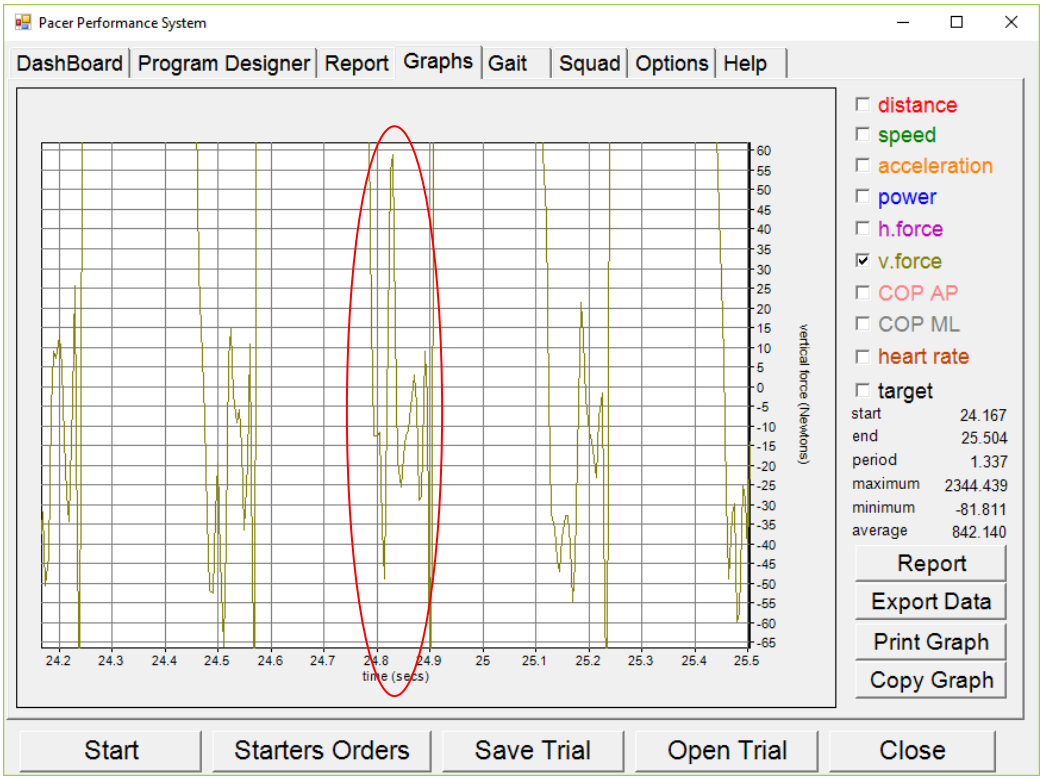
To use the Threshold for Flight function to remove anomalies in step length/rate (as seen below Highlighted in blue) caused by noise in the flight phase



The likely cause for this variation is noise spikes in vertical force during the flight phase. Open the graphs tab and place a check in v.Force (highlighted in red below)

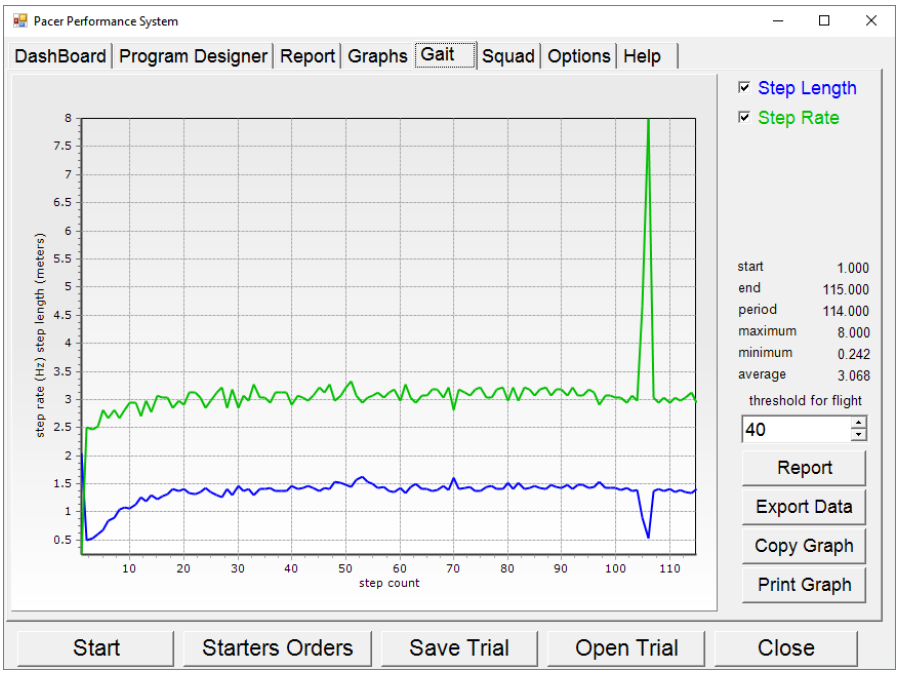


Zoom in on the bottom of the trace to select the highest noise peak in the flight phase of the v.Force trace (see below). The highest peak is on the left of the trace (highlighted in red below).

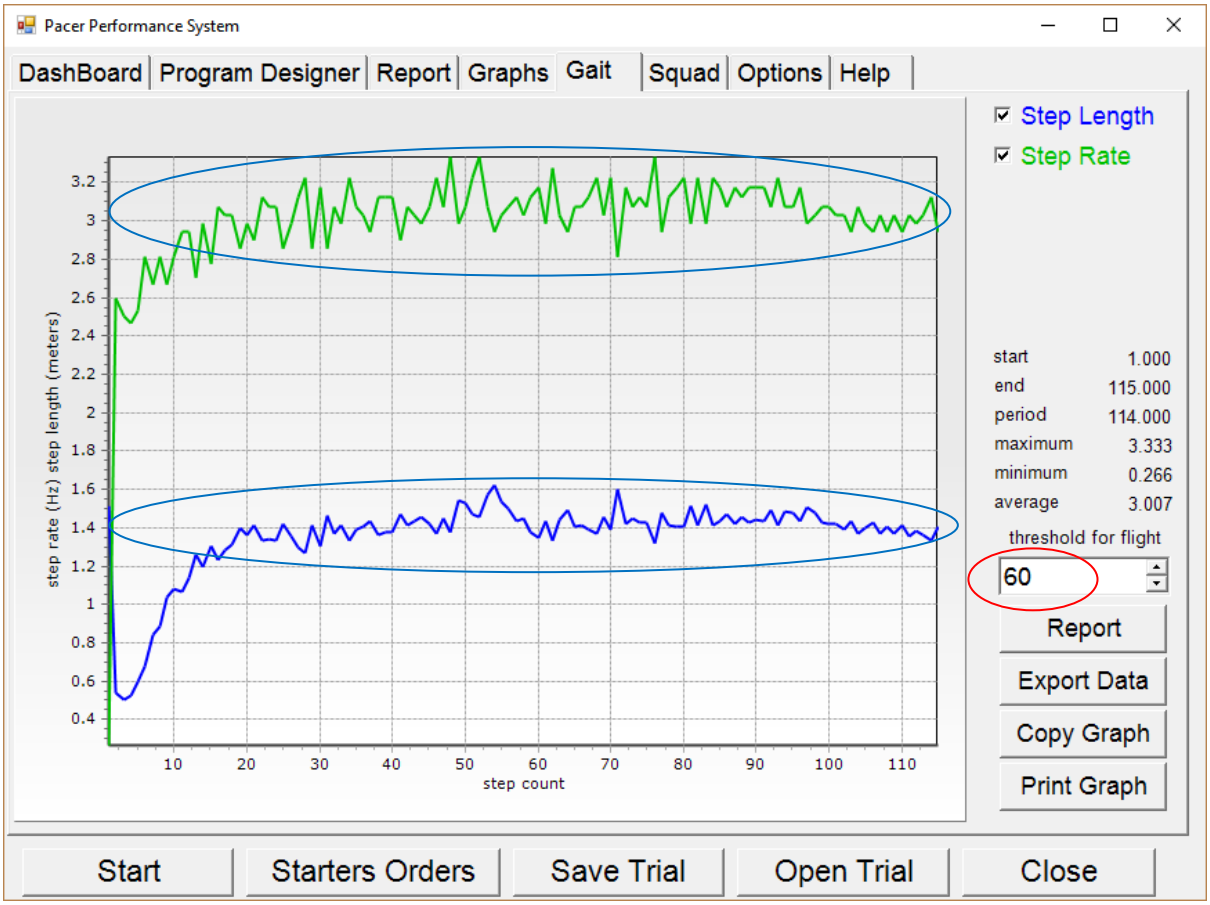


Zoom in again to determine the value in Newtons of the noise spike(highlighted in red below). The value of the spike in this case is around 58N.

Now go back to the 'Gait' tab.



Type in a value higher than the noise spike determined on the 'Graphs' tab. We will use 60N (see highlighted in red below) Once you have entered the value click 'enter'. You will now notice the spikes in Step Length and Rate have been reduced (see below highlighted in blue)



The same approach can be use to correct an incorrect count of steps. You can determine the correct number of steps by counting the peaks in the v.Force trace in the 'Graphs' tab.