

| |second_derivative.png\\ \\ ****second_derivative****| | ****/signal_types=**** |the type of signal to be processed| | ****/signal_names=**** |the names of the signals to be processed| | ****/signal_folder=**** |the name of the signal folder| compute the second derivative at each point of a signal. the first and last data points become data_not_found(identified in the c3d file as a point reliability value of &endash;1). derivatives are calculated using finite difference algorithms. given the signal: $x(t_i)$ for $i=1, 2, \dots, n$ the second derivative is calculated using:
$$x_{ddot}(t_i) = (x(t_{i+1}) - 2x(t_i) + x(t_{i-1})) / ((t_{i+1} - t_i)^2)$$

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