

| |first_derivative.png\\ \\ **first_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 first 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 first
derivative is calculated using: $\dot{x}(t_i) = (x(t_{i+1}) - x(t_{i-1})) / (t_{i+1} - t_{i-1})$

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