

2026/09/16 14:54 Second Derivative 1/1	Second Derivative of a Signal
/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: $x\ddot{D}ot(t_i)= (x(t_{i+1})-2x(t_i)+x(t_{i-1}))/((t_{i+1})-(t_i))^2$

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