

		
2026/09/16 15:56	1/1	Second Derivative of a Signal
Second Derivative		
/Signal_Types=	The type of signal 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: $xDDot(t_i) = (x(t_{i+1}) - 2x(t_i) + x(t_{i-1})) / ((t_{i+1} - t_i)^2)$

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