

2026/09/16 20:56	1/1	Second Derivative of a Signal
Second_Derivative		
/Signal_Types=	The type of signal to be processed	
Language= English	• français • italiano • português • español	****
/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(ti) for i=1, 2, ..., n The second derivative is calculated using: $xDDot(ti)= (x(ti+1)-2x(ti)+x(ti-1)) / ((ti+1)-(ti))^2$

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