

2026/09/16 12:18	1/1	First Derivative of a Signal
First_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 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(ti) for i=1, 2, ..., n The first derivative is calculated using: xDot(ti)= (x(ti+1)-x(ti-1))/((ti+1)-(ti-1))

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