

✖ 2026/09/16 16:06 First_Derivative	1/1	First 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 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: $x\dot{(t_i)}= (x(t_{i+1})-x(t_{i-1}))/ (t_{i+1}-t_{i-1})$

From:

<https://has-motion.com/wiki/> - Wiki Documentation Site

Permanent link:

https://has-motion.com/wiki/doku.php?id=visual3d:documentation:pipeline:signal_commands:first_derivative_of_a_signal&rev=1718805812

Last update:

2024/06/19 14:03

