

Command ADIFF3

PURPOSE Build 3-point differential of analyzer

PARAMETERS

AIN Source analyzer
/DEST(AOUT) Destination analyzer
/ONTO(AOUT) Alias for option /DEST
/OUT(AOUT) Alias for option /DEST

FUNCTION Build the spectrum of 3-point differences.
The contents y_{out} of the destination analyzer AOUT are determined from the contents y_{in} of the input analyzer AIN by the following relation: $y_{out}(i) = 1/2 (y_{in}(i+2) - y_{in}(i+1) - (y_{in}(i+1) - y_{in}(i))) = 0.5 y_{in}(i+2) - y_{in}(i+1) + 0.5 y_{in}(i)$.

REMARKS The command supports error bars.
This result of the operation has 2 channels less than the input analyzer.

EXAMPLE ADIFF3 AIN / DEST(AOUT)
Determine the spectrum of 3-point differences of analyzer AIN and store the result in the analyzer AOUT.