

# Calculation Inspector

## Subtract & Add Buffer

With this function buffers (specified by reference numbers from the File Inspector) can be added to or subtracted from each other, depending on the selection within the *Mode* radio button.

## Data Reduction

Sometimes it is useful to reduce a large number of datapoints which consist mainly of noise to a more practical amount of points. This function takes  $n$  points ( $n$  is specified in the *Factor* field), builds the average, and replaces the  $n$  points with the new one.

## Integrate

This function calculates the integral between the  $X_{min}$  and  $X_{max}$  value, multiplies and divides it by the given factors, and writes

the result to the comment fields in the *File Inspector*.

The *Result Mode* radio button selects the output format.

e.g.           Short Form:           Int=10.0  
              LongForm:           Int(2.0,7.0)=10.0

Clicking the *Make %* button calculates the relative values of the integrals for all selected buffers in which an integral entry (as above) appears and appends the percentage to the integral entry.

## Calculations

Three kinds of calculations are possible:

1.           (x,y) = Value (+,-,\*,/) (x,y)
2.           (x,y) = (x,y) (+,-,\*,/) Value

3. (x,y) = (Log,Log10,Exp,Exp10, Sin,Cos,^2,Sqrt) (x,y)

These calculations effect all selected buffers.