

# LININT

LININT returns a linear interpolated value in two or more dimensions

## Syntax

1. LININT(Pno%, Ndim%, "ColLab\$\_1",..., "ColLab\$\_Ndim%", Xint\_1,...,Xint\_Ndim%-1, [Xtrap%=0,1])
2. LININT(0, Npoints%, x\_1, y\_1, x\_2, y\_2,..., x\_n, y\_n, xint, [Xtrap%=0,1])
3. LININT(@ObjFn(...), Ndim%, @ObjColPar\_1,..., @ObjColPar\_Ndim%, Xint\_1,...,Xint\_Ndim%-1, [Xtrap%=0,1])
4. LININT(Telitab\$, Ndim%, "ColLab\$\_1",..., "ColLab\$\_Ndim%", Xint\_1,...,Xint\_Ndim%-1, [Xtrap%=0,1])

### Arguments

- **Pno%** is the number that refers to the [TeLiTab](#) sets in the Data slot. Pno% should be an integer value or a parameter which is assigned an integer value and is the number of the [TeLiTab](#) set in the expressions' data slot.
- **Npoints%** is the number of points (x,y) that are given in direct definition.
- **@ObjFn()** refers to the Object from which data will be used.
- **TeLiTab\$** refers to the string parameter that contains the [TeLiTab](#).
- **Ndim%** is the number of dimensions (or columns in the table...).
- **"ColLab\$\_1"** and **@ObjColPar\_1** refer to the column that will be used as the first parameter in the interpolation.
- **"ColLab\$\_2"** and **@ObjColPar\_2** refer to the column that will be used as the second parameter in the interpolation. etc.
- **Xint** is the parameter to do interpolation on.
- **Xtrap%** is an optional argument to switch off a warning in the event of extrapolation. If **Xtrap% = 1** no warning is given. The value is not required and is 0 by default (not suppressing the warning).

## Remarks

1. See also Telitab access for a generic description on the use of [TeLiTab](#) data.
2. Similar to other Data analysis functions, the LININT is a convenient way to evaluate data. Please also look at these functions for syntax examples
3. Please realise the dataset provided to LININT should be a function. Every x-value should have one y-value. When you do not have a valid dataset, please look at [GAUSSINT\(\)](#) or [LEASQ\(\)](#)

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Quick links: [Functions overview](#) | [Attribute overview](#) | [Constants overview](#) | [Dimensions overview](#)