

FindDimLabel

Flags

/DSTX= <i>destX</i>	Saves the output X data in the specified destination wave. The destination wave is created or overwritten if it already exists.
/DSTY= <i>destY</i>	Saves the output Y data in the specified destination wave. The destination wave is created or overwritten if it already exists.

Details

FindContour uses a contour-following algorithm to generate a pair of waves describing the locus of the solution to *matrixWave=level*.

If you omit /DSTX the output X data is written to W_XContour in the current data folder.

If you omit /DSTY the output Y data is written to W_YContour in the current data folder.

The output waves are written as double-precision floating point. They use NaNs to separate different contiguous solution points.

Example

```
Make/N=(100,200) dataWave = 1e4*gauss(x,50,10,y,100,20)
FindContour dataWave,4      // Find solution to dataWave=4
NewImage dataWave
AppendToGraph/T W_YContour vs W_XContour
```

See Also

[AppendMatrixContour](#), [ContourZ](#)

FindDimLabel

FindDimLabel (*waveName*, *dimNumber*, *labelString*)

Returns the index value corresponding to the label for the given dimension. Returns -1 if the label is for the entire dimension. Returns -2 if the label is not found.

Use *dimNumber* =0 for rows, 1 for columns, 2 for layers, or 3 for chunks.

See Also

[GetDimLabel](#), [SetDimLabel](#), [CopyDimLabels](#)

FindDuplicates

FindDuplicates [*flags*] *srcWave*

The FindDuplicates operation identifies duplicate values in a wave and optionally creates various output waves. *srcWave* can be either numeric or text.

When *srcWave* is numeric, the /DN, /INDX, /RN and /SN flags create output waves as described below. If you omit all of these flags then FindDuplicates does nothing.

When *srcWave* is text, the /DT, /INDX, /RT and /ST flags create output waves as described below. If you omit all of these flags then FindDuplicates does nothing.

The FindDuplicates operation was added in Igor Pro 7.00.

Flags

/FREE	Creates all output waves as free waves. The /FREE flag was added in Igor Pro 8.00. /FREE is permitted in user-defined functions only. If you use /FREE then all output wave parameters must be simple names, not paths or \$ expressions. See Free Waves on page IV-91 for details on free waves.
/INDX= <i>indexWave</i>	Creates a numeric output wave containing the index of each encountered duplicate. The index is the point number in <i>srcWave</i> where a duplicate value was encountered. This flag applies to both numeric and text inputs.
/Z	Do not report any errors.

Flags for Numeric Source Wave

/DN= <i>dupsWave</i>	Creates a numeric output wave that contains the duplicates.
/RN= <i>dupsRemovedWave</i>	Creates a numeric output wave that contains the source data with all duplicates removed.
/SN= <i>replacement</i>	Creates a numeric output wave with all duplicates replaced with <i>replacement</i> . <i>replacement</i> can be any numeric value including NaN or INF. The output wave is W_ReplacedDuplicates in the current data folder unless you specify a different output wave using the /SNDS flag.
/SNDS= <i>dupsReplacedWave</i>	Specifies the output wave generated by /SN. If you omit /SNDS then the output wave created by /SN is W_ReplacedDuplicates in the current data folder. /SNDS without /SN has no effect.
/TOL= <i>tolerance</i>	Specifies the tolerance value for single-precision and double-precision numeric source waves. Two values are considered duplicates if $\text{abs}(\text{value1}-\text{value2}) \leq \text{tolerance}$ By default <i>tolerance</i> is zero.
/UN= <i>uniqueNumbersWave</i>	Creates a numeric output wave that contains the unique numbers in <i>srcWave</i> sorted from small to large. When <i>srcWave</i> contains NaN entries they are sorted as the last point in <i>uniqueNumbersWave</i> . /UN is incompatible with /RN which maintains the order of entries in <i>srcWave</i> . The /UN flag was added in Igor Pro 9.00.
/UNC= <i>uniqueCounts</i>	Creates a numeric output wave that contains the count of each entry in the <i>uniqueNumbersWave</i> created by the /UN flag. The /UNC flag was added in Igor Pro 9.00.

Flags for Text Source Wave

/CI	Performs case-insensitive text comparisons on ASCII characters only. For example, "A" and "a" are considered duplicates. The /CI flag was added in Igor Pro 9.00.
/DT= <i>dupsWave</i>	Creates a text output wave that contains the duplicates.
/LOC	Performs locale-aware text comparisons which take case into account for both ASCII and non-ASCII characters. For example, the non-ASCII characters "Å" and "å" are considered duplicates as well as the ASCII characters "A" and "a". /LOC is ignored unless you also include /CI. The /LOC flag was added in Igor Pro 9.00.
/RT= <i>dupsRemovedWave</i>	Creates a text output wave that contains the source data with all duplicates removed.
/ST= <i>replacementStr</i>	Creates a text output wave with all duplicates replaced with <i>replacementStr</i> . <i>replacementStr</i> can be any text value including "". The output wave is T_ReplacedDuplicates in the current data folder unless you specify a different output wave using the /STDS flag.