

FindDimLabel

Flags

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

<code>/FREE</code>	Creates all output waves as free waves. The <code>/FREE</code> flag was added in Igor Pro 8.00. <code>/FREE</code> is permitted in user-defined functions only. If you use <code>/FREE</code> 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.
<code>/INDX=indexWave</code>	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.
<code>/Z</code>	Do not report any errors.

Flags for Numeric Source Wave

- /DN=dupsWave* Creates a numeric output wave that contains the duplicates.
- /RN=dupsRemovedWave* Creates a numeric output wave that contains the source data with all duplicates removed.
- /SN=replacement* Creates a numeric output wave with all duplicates replaced with *replacement*. *replacement* 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=dupsReplacedWave* 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=tolerance* 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 *tolerance* is zero.
- /UN=uniqueNumbersWave* Creates a numeric output wave that contains the unique numbers in *srcWave* sorted from small to large. When *srcWave* contains NaN entries they are sorted as the last point in *uniqueNumbersWave*.
/UN is incompatible with /RN which maintains the order of entries in *srcWave*.
The /UN flag was added in Igor Pro 9.00.
- /UNC=uniqueCounts* Creates a numeric output wave that contains the count of each entry in the *uniqueNumbersWave* 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=dupsWave* 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=dupsRemovedWave* Creates a text output wave that contains the source data with all duplicates removed.
- /ST=replacementStr* Creates a text output wave with all duplicates replaced with *replacementStr*. *replacementStr* 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.