

Command Reference: FillInterpolate()

Fill missing time series data by interpolating between known values

Version 11.03.07, 2015-06-24

The `FillInterpolate()` command fills missing data in a time series by interpolating between known values within the same time series. The command currently will not extrapolate past end points.

The following dialog is used to edit the command and illustrates the syntax of the command.

Edit FillInterpolate() Command

Fill time series missing values by interpolating between non-missing values.
Filling by extrapolating past known end points is not currently implemented.
If the maximum intervals to fill is 0, then interpolation will be used regardless of the data gap.

TS list: **AllMatchingTSID** Optional - indicates the time series to process (default=AllTS).

TSID (for TSList=AllMatchingTSID): **ts1_day**

EnsembleID (for TSList=EnsembleID):

Fill start date/time: Optional - start of period to fill (default=fill all).

Fill end date/time: Optional - end of period to fill (default=fill all).

Maximum intervals to fill: **2** Optional (default=0 to fill all).

Transformation for interpolation: Optional - currently only default value (None) is recognized.

Fill flag: Optional - string to flag filled values (default=no flag).

Fill flag description: Optional - description for fill flag (default=auto-generated).

Command:
`FillInterpolate(TSList=AllMatchingTSID,TSID="ts1_day",MaxIntervals=2)`

Cancel OK

FillInterpolate

FillInterpolate() Command Editor

The command syntax is as follows:

`FillInterpolate(Parameter=Value,...)`

Command Parameters

Parameter	Description	Default
TSList	Indicates the list of time series to be processed, one of: <ul style="list-style-type: none">AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be modified.AllTS – all time series before the command.EnsembleID – all time series in the ensemble will be modified.	AllTS

Parameter	Description	Default
	<ul style="list-style-type: none"> FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID with wildcards) will be modified. LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be modified. SelectedTS – the time series are those selected with the <code>SelectTimeSeries()</code> command. 	
TSID	The time series identifier or alias for the time series to be modified, using the * wildcard character to match multiple time series. Can be specified using processor <code>\${Property}</code> .	Required when <code>TSList=*TSID</code>
EnsembleID	The ensemble to be modified, if processing an ensemble. Can be specified using processor <code>\${Property}</code> .	Required when <code>TSList=EnsembleID</code> .
FillStart	The starting date/time for the fill. Can be specified using processor <code>\${Property}</code> .	Available period.
FillEnd	The ending date/time for the fill. Can be specified using processor <code>\${Property}</code> .	Available period.
MaxIntervals	The maximum number of consecutive intervals to fill (0 indicates no limits on the number of consecutive intervals that can be filled).	0
Transformation	Indicate the data transformation to occur for interpolation. Currently, None is the only option and is the default. Earlier versions used Linear.	None (no transformation).
FillFlag	A string to flag data values that are filled. Can be specified using processor <code>\${Property}</code> .	None – do not flag filled data.
FillFlagDesc	Description for FillFlag. Can be specified using processor <code>\${Property}</code> .	Auto generated.

A sample command file using data from the State of Colorado's HydroBase is as follows:

```
# 06707500 - SOUTH PLATTE RIVER AT SOUTH PLATTE
06707500.DWR.Streamflow.Month~HydroBase
FillInterpolate(TSList=AllMatchingTSID,TSID="06707500.DWR.Streamflow.Month",
MaxIntervals=3,Transformation=None)
```