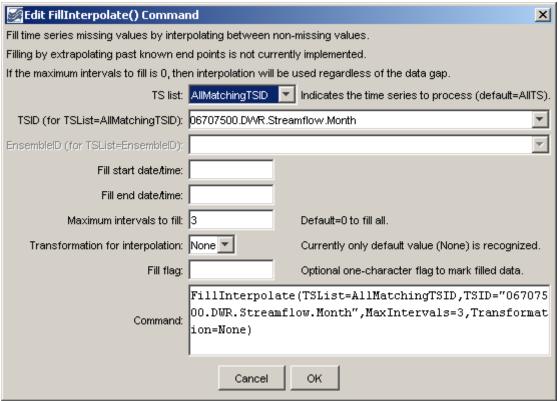# Command Reference: FillInterpolate()

Fill missing time series data by interpolating between known values

Version 08.16.04, 2008-09-03

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.

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: • `AllMatchingTSID` – all time series that match the `TSID` (single TSID or TSID with wildcards) will be modified. • `AllTS` – all time series before the	AllTS

Parameter	Description	Default
	command. • `EnsembleID` – all time series in the ensemble will be modified. • `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 `SelectTimeSeries()` command.	
`TSID`	The time series identifier or alias for the time series to be modified, using the `*` wildcard character to match multiple time series.	Required when `TSList=*TSID`
`EnsembleID`	The ensemble to be modified, if processing an ensemble.	Required when `TSList=EnsembleID.`
`FillStart`	The starting date/time for the fill.	Available period.
`FillEnd`	The ending date/time for the fill.	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 one-character flag to tag data values that are filled.	None – do not flag filled data.

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)
```