

Command Reference: FillRepeat()

Fill missing time series data by repeating known data values

Version 11.11.01, 2016-06-07

The `FillRepeat()` command fills missing data in time series by repeating observations until another observation is found. This fill technique is useful, for example, where time series are likely to be step-wise or nearly constant, such as some reservoir and diversion time series.

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

Edit FillRepeat() Command

This command fills missing data in the time series by repeating non-missing values.
The fill direction can be forward or backward.
Specify the maximum intervals as blank or zero to fill any gap.
The fill start and end, if specified, will limit the period that is filled.
Use standard date/time formats appropriate for the date/time precision of the time series.

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

TSID (for TSList=AllMatchingTSID):

EnsembleID (for TSList=EnsembleID):

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

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

Fill direction: Optional - fill direction (default=Forward).

Max. intervals: Optional - largest gap to fill (default=fill all).

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

Command:
`FillRepeat (TSList=AllMatchingTSID,TSID="08236500.DWR.Streamflow.Month",FillDirection=Forward)`

FillRepeat

FillRepeat() Command Editor

The command syntax is as follows:

`FillRepeat (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

Parameter	Description	Default
	<ul style="list-style-type: none"> AllTS – all time series before the command. EnsembleID – all time series in the ensemble 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. Can be specified using processor \${Property}.	Required if TSList=*TSID
EnsembleID	The ensemble to be modified, if processing an ensemble. Can be specified using processor \${Property}.	Required if TSList=EnsembleID
FillStart	The starting date/time for the fill. Can be specified using processor \${Property}.	Available period.
FillEnd	The ending date/time for the fill. Can be specified using processor \${Property}.	Available period.
FillDirection	Specify the direction of the fill as Forward or Backward.	Forward
MaxIntervals	The maximum number of intervals to fill in a data gap.	Fill all gaps.
Flag	String to flag filled values. Prefix with + to append the string to existing flag values. Can be specified using processor \${Property}.	Do not flag filled values.

A sample command file to fill a time series from the State of Colorado's HydroBase is as follows:

```
# 08236500 - ALAMOSA RIVER BELOW TERRACE RESERVOIR
08236500.DWR.Streamflow.Month~HydroBase
FillRepeat(TSList=AllMatchingTSID,TSID="08236500.DWR.Streamflow.Month",
  FillDirection=Forward)
```