Command Reference: SetFromTS()

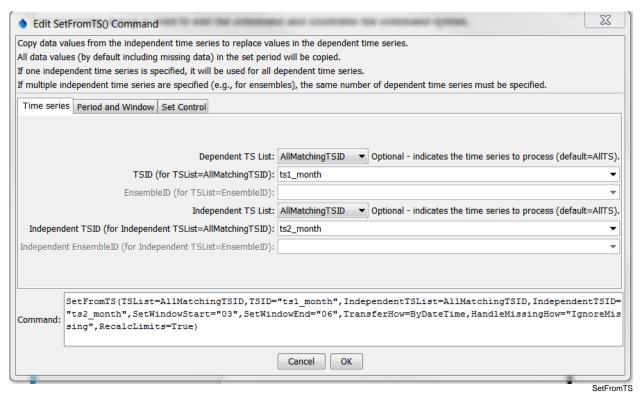
Set time series data using data from another time series

Version 11.03.05, 2015-06-14

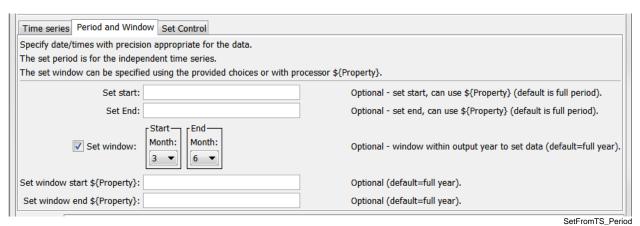
The SetFromTS () command sets data in a dependent time series by transferring values from an independent time series. A period and window within the year can be specified to limit the period that is processed. See also the FillFromTS () command, which will transfer values only when the dependent time series has missing data. Only data values are transferred – time series properties will not be modified. If multiple time series or an ensemble is being processed, the number of independent time series must be one or the same number as the time series being filled.

It is also possible to use this command to transfer data between time series that have different intervals. If the independent time series has a smaller interval, then SetWindowStart and SetWindowEnd parameters should be used to specify a window to transfer – the first value in the window will be transferred. For example, when transferring all the January values from a monthly time series to a year-interval dependent time series, specify the window start and end as 01. If the transfer is from longer interval to smaller, then the values from the independent time series will be used multiple times for the dependent time series (e.g., annual value used for each month).

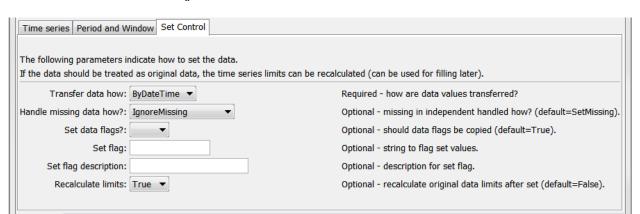
The following dialog is used to edit the command and illustrates the command syntax.



SetFromTS() Command Editor for Time Series Parameters



SetFromTS() Command Editor for Period and Window Parameters



SetFromTS() Command Editor for Set Control Parameters

SetFromTS_Control

The command syntax is as follows:

SetFromTS (Parameter=Value,...)

Command Parameters

Parameter	Description	Default
TSList	Indicates the list of time series to be processed,	AllTS
	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	
	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.	

Parameter	Description	Default
	• LastMatchingTSID - the last time	
	series that matches the TSID (single TSID	
	 or TSID with wildcards) will be modified. SelectedTS – the time series are those 	
	 SelectedTS – the time series are those selected with the 	
	SelectTimeSeries() command.	
TSID	The time series identifier or alias for the time	Required when
	series to be modified, using the * wildcard	TSList=*TSID
	character to match multiple time series. Can be	
	specified using processor \${Property}.	
EnsembleID	The ensemble to be modified, if processing an	Required when
	ensemble. Can be specified using processor	TSList=EnsembleID
	\${Property}.	
Independent	Indicates how to determine the list of	AllTS
TSList	independent time series (see the explanation of TSList).	
Independent	The time series identifier or alias for the	Required when a
TSID	independent time series (see the explanation of	IndependentTSList=
	TSID). Can be specified using processor	*TSID
	\${Property}.	
Independent	The ensemble identifier for the independent	Required when
EnsembleID	time series (see the explanation of	IndepndentTSList=
	EnsembleID). Can be specified using	EnsembleID.
	<pre>processor \${Property}.</pre>	
SetStart	The date/time to start setting data, if other than	Full period.
	the full time series period. Can be specified	
SetEnd	using processor \$ { Property }. The date/time to end setting data, if other than	Full period.
Secula	the full time series period. Can be specified	run period.
	using processor \${Property}.	
SetWindowStart	The date/time (without year) indicating the	Full year.
	start of the window within a year to set values	,
	in the output (dependent) time series. For	
	example:	
	• mm – for monthly time series	
	 mm-dd – for daily time series 	
	• mm-dd-hh - for hourly data	
	If specified using processor \${Property},	
	the processor property will override date/time	
SetWindowEnd	selections. The date/time (without year) indicating the end	Full year.
DECMINACMENT	of the window within a year to set values in the	r uii year.
	output (dependent) time series. If specified	
	using processor \${Property}, the processor	
	property will override date/time selections.	
TransferHow	Indicates how to transfer data:	None – must be specified.

Parameter	Description	Default
	 ByDateTime – a date/time in one time series will be lined up with the other time series. Sequentially – data from the independent will be transferred sequentially, even if the date/time does not align (used when transferring continuous data over Feb 28/29, without gaps). 	
HandleMissingHow	 Indicates how to handle missing data in the independent time series: IgnoreMissing – missing values in the independent time series WILL NOT be transferred to the dependent time series. SetMissing – missing values in the independent time series WILL be transferred to the dependent time series. SetOnlyMissingValues – only the missing values in the independent time series will be transferred, useful when a separate time series has been used to insert additional missing values. 	SetMissing
SetDataFlags	Indicates if data flags should also be transferred from the independent time series to the dependent time series.	True
SetFlag	String that should be used for the data flag for values that are set (overrides SetDataFlags).	No flag is set.
SetFlagDesc	Description that should used for the SetFlag value.	Auto-generated.
RecalcLimits	Available only for monthly time series. Indicate whether the original data limits for the time series should be recalculated after the setting the time series values. Setting to True is appropriate if the independent time series provides observations consistent with the original data.	False (only the values in the initial time series will be used for historical data).

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

```
# 08241000 - TRINCHERA CREEK ABOVE MOUNTAIN HOME RESERVOIR
08241000.DWR.Streamflow.Month~HydroBase
# 08240500 - TRINCHERA CREEK ABOVE TURNER'S RANCH
08240500.DWR.Streamflow.Month~HydroBase
SetFromTS(TSList=AllMatchingTSID, TSID="08241000.DWR.Streamflow.Month",
    IndependentTSList=AllMatchingTSID,
    IndependentTSID="08240500.DWR.Streamflow.Month",
    TransferHow=ByDateTime)
```