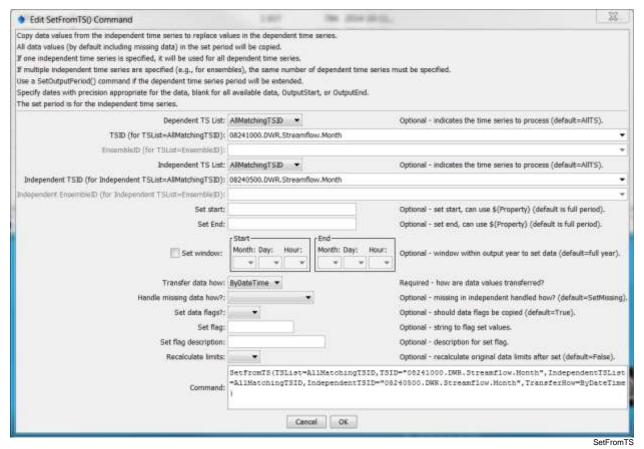
## Command Reference: SetFromTS()

## Set time series data using data from another time series

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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 header information (e.g., data type, alias) 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.

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



SetFromTS() Command Editor

The command syntax is as follows:

SetFromTS(Parameter=Value,...)

## **Command Parameters**

Parameter	Description	Default
TSList	<ul> <li>Indicates the list of time series to be processed, one of:</li> <li>AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be modified.</li> <li>AllTS – all time series before the command.</li> <li>EnsembleID – all time series in the ensemble will be modified.</li> <li>FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID with wildcards) will be modified.</li> <li>LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be modified.</li> <li>SelectedTS – the time series are those selected with the SelectTimeSeries () command.</li> </ul>	AllTS
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 when TSList=*TSID
EnsembleID	The ensemble to be modified, if processing an ensemble. Can be specified using processor \${Property}.	Required when TSList=EnsembleID
Independent TSList	Indicates how to determine the list of independent time series (see the explanation of TSList).	AllTS
Independent TSID	The time series identifier or alias for the independent time series (see the explanation of TSID). Can be specified using processor \${Property}.	Required when a IndependentTSList= *TSID
Independent EnsembleID	The ensemble identifier for the independent time series (see the explanation of EnsembleID). Can be specified using processor \${Property}.	Required when IndepndentTSList= EnsembleID.
SetStart	The date/time to start setting data, if other than the full time series period. Can be specified using processor \${Property}.	Full period.
SetEnd	The date/time to end setting data, if other than the full time series period. Can be specified using processor \${Property}.	Full period.

Parameter	Description	Default
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	
SetWindowEnd	The date/time (without year) indicating the end	Full year.
	of the window within a year to set values in the	
	output (dependent) time series.	
TransferHow	Indicates how to transfer data:	None – must be specified.
	• 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	SetMissing
	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.	
SetDataFlags	Indicates if data flags should also be transferred	True
	from the independent time series to the	
	dependent time series.	
SetFlag	String that should be used for the data flag for	No flag is set.
	values that are set (overrides	
	SetDataFlags).	
SetFlagDesc	Description that should used for the SetFlag	Auto-generated.
	value.	
RecalcLimits	Available only for monthly time series.	False (only the values in
	Indicate whether the original data limits for the	the initial time series will
	time series should be recalculated after the	be used for historical
	setting the time series values. Setting to True	data).
	is appropriate if the independent time series	
	provides observations consistent with the	
	original 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)