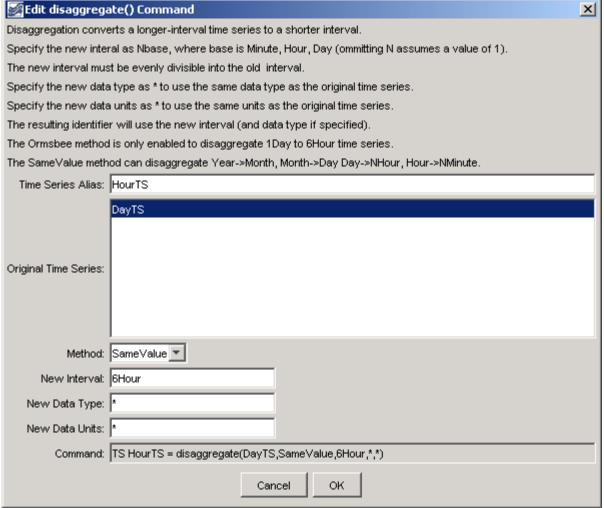
## Command Reference: TS X = disaggregate()

Create a New Time Series with Shorter Interval

Version 06.08.02, 2004-07-29, Color, Acrobat Distiller

The disaggregate() command creates a new time series by disaggregating a time series with a longer data interval into a time series with a shorter data interval. The resulting time series will have the same header information and identifier as the original time series, with a different data interval. Converting longer-interval data may cause a perceived shift in the time. For example, 1Day data shifted to 24Hour data will result in the daily values being set at hour zero of the following day. This shift is necessary to generically represent different time precision. Plots will also reflect the shift because hours are not considered when computing plot positions for daily data. It is important to understand how disaggregated data is treated with respect to time when using with other applications. If necessary, use the shiftTimeByInterval() command to manipulate the resulting output time series. The following dialog is used to edit the command and illustrates the syntax for the command.



disaggregate() Command Editor

disaggregate

The command syntax is as follows:

TS X = disaggregate(TSID, Method, NewInterval, NewDataType, NewUnits)

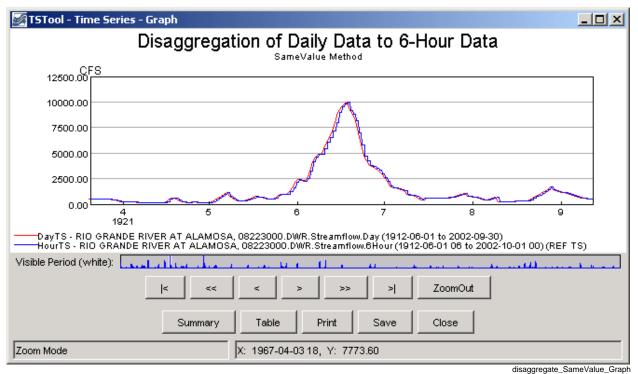
## **Command Parameters**

Parameter	Description	Default
X	Alias for the disaggregated time series. The resulting time series will have the same header information and identifier as the original time series, with a different data interval and alias.	None – must be specified.
TSID	The time series identifier or alias for the time series to be disaggregated.	None – must be specified.
Method	The method used to perform the disaggregation, one of the following:	None – must be specified.
	Orsmbee – this method was presented in "Rainfall Disaggregation Model for Continuous Hydrologic Modeling," Ormsbee, Lindell E., Journal of Hydraulic Engineering, ASCE, April, 1989. Currently the method has only been enabled for disaggregating 1Day (not 24Hour) data to 6Hour data.	
	SameValue – this simple method causes the resulting time series to have the same value as the original. For example, a monthly time series that is disaggregated to a daily time series will result in each daily value being the same as for the corresponding value in the original monthly time series. Currently the following disaggregations are supported:	
	• Year to Month	
	<ul> <li>Month to Day</li> <li>Day to NHour (including 24Hour)</li> <li>Hour to NMinute (including 60Minute)</li> </ul>	
NewInterval	The data interval for the disaggregated time series (NHour, NDay, etc.).	None – must be specified.
NewDataType	The data type for the disaggregated time series, if different from the original.	Use * to indicate the same data type as the original time series.
NewUnits	The units for the disaggregated time series, if different from the original.	Use * to indicate the same data type as the original time series.

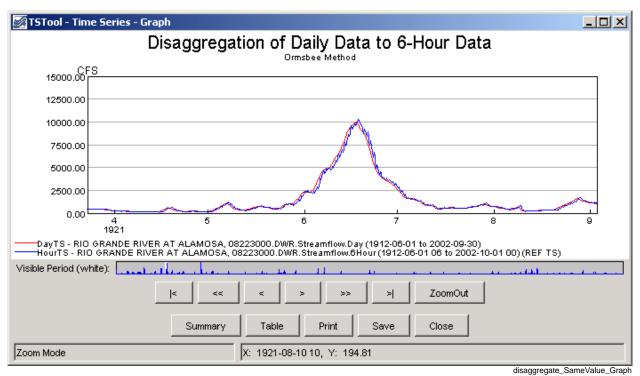
An example commands file is as follows:

```
# 08223000 - RIO GRANDE RIVER AT ALAMOSA
TS DayTS = readTimeSeries("08223000.DWR.Streamflow.Day~HydroBase")
TS HourTS = disaggregate(DayTS,Ormsbee,6Hour,*,*)
```

Examples of graphs for the original and disaggregated data are shown below, for the two disaggregation methods:



Daily Input Time Series and 6-Hour Disaggregated Time Series using SameValue Method



Daily Input Time Series and 6-Hour Disaggregated Time Series using Ormsbee Method

disaggregate() Command		TSTool Documentation
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