Command Reference: fillDayTSFrom2MonthTSAnd1DayTS()

Fill Daily Time Series from Monthly Volumes and Daily Pattern

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

The fillDayTSFrom2MonthTSAnd1DayTS() command fills a daily time series using the following relationship:

 $D1_i = D2_i*(M1_i/M2_i)$

where:

i = interval

D1 is the daily data at point1

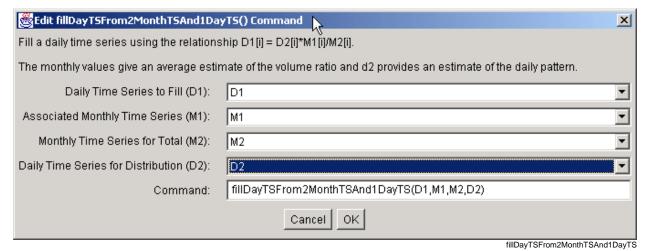
M1 is the monthly data at point1

D2 is the daily data at point2

M2 is the monthly data at point2

This fill method assumes the monthly time series are filled and reasonably correlated and that the daily pattern D2 can be applied at D1. For example, use this command to fill daily streamflow where filled monthly data are available at nearby locations and filled daily data is available at the independent (D2) station. There is currently no way to limit the fill operation to a period (the entire time series is filled).

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



fillDayTSFrom2MonthTSAnd1DayTS() Command Editor

The command syntax is as follows:

fillDayTSFrom2MonthTSAnd1DayTS(TSID_D1,TSID_M1,TSID_M2,TSID_D2)

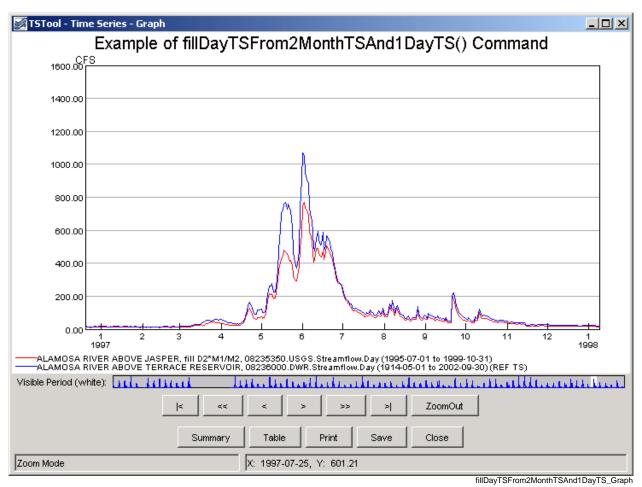
Command Parameters

Parameter	Description	Default
TSID_D1	The time series identifier or alias for the	None – must be specified.
	daily time series to be filled.	
TSID_M1	The time series identifier or alias for the	None – must be specified.
	monthly time series, corresponding to	
	TSID_D1, to supply the monthly values	
	to be distributed to daily.	
TSID_M2	The time series identifier or alias for the	None – must be specified.
	independent monthly time series.	
TSID_D2	The time series identifier or alias for the	None – must be specified.
	independent daily time series,	
	corresponding to TSID M2.	

An example commands file is shown below with the resulting graph of daily time series.

```
# Test fillDayTSFrom2MonthTSAnd1DayTS: D1 = D2*M1/M2
# SAM, RTi, 2001-02-25
# The following is D1:
# (1995-1998) ALAMOSA RIVER ABOVE JASPER, CO USGS Streamflow
Daily
08235350.USGS.Streamflow.Day~HydroBase
# The following is M1:
# (1995-1998) ALAMOSA RIVER ABOVE JASPER, CO USGS Streamflow
Monthly
08235350.USGS.Streamflow.Month~HydroBase
# The following is D2:
# (1914-1998) ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO.
Streamflow Daily
08236000.DWR.Streamflow.Day~HydroBase
# The following is M2:
# (1914-1998) ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO.
Streamflow Monthly
08236000.DWR.Streamflow.Month~HydroBase
fillRegression(08235350.USGS.Streamflow.Month,08236000.DWR.Stream
flow.Month,OneEquation,Linear,*,*,*,*)
fillDayTSFrom2MonthTSAnd1DayTS(08235350.USGS.Streamflow.Day,
08235350.USGS.Streamflow.Month,08236000.DWR.Streamflow.Month,
08236000.DWR.Streamflow.Day)
```

The following graph shows the two daily time series used in the command (zoomed in). Note that the shape of the filled time series is similar to the other time series.



Example of Filled Data