Command Reference: TS X = weightTraces()

Create a Time Series by Weighting Data from Time Series Traces

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

The weightTraces() command creates a new time series as a weighted sum of time series traces, which were produced by a createTraces() command. The following dialog is used to edit the command and illustrates the syntax of the command. Most often when using this command you will have interactively reviewed available traces to decide which traces should be weighted.

Edit weightTraces() Command				
Create a new time series by weighting traces. The result is identified by its alias.				
Enter trace years and weights one value per line.				
Time Series Alias:	WeightedTS			
Trace Identifier:	08235350.USGS.Streamflow.Day			
Weights Specified How:	AbsoluteWeights 🔻			
	1997	.5		
	1998	. 4		
Trace (year):	1999	Weight: .1		
Command:	tedTS = weightTraces(08235350.USGS.Streamflow.Day,AbsoluteWeights,1997,.5,1998,.4,1999,.1)			
Cancel OK				

weightTraces() Command Editor

TS_weightTraces

The command syntax is as follows:

TS X = weightTraces(TSID,SpecifWeightsHow,Year,Weight,...)

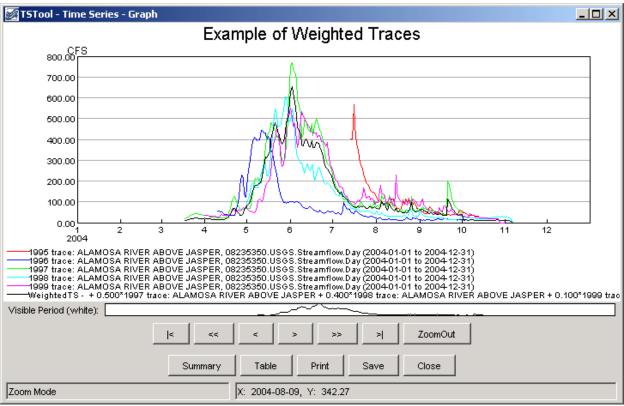
Command Parameters

Parameter	Description	Default
X	The alias of the new time series.	None – must be specified.
TSID	The time series identifier or alias for a	None – must be specified.
	time series that has been converted into	
	traces (e.g., from a createTraces ()	
	command). Time series matching the	
	identifier will be checked.	
SpecifyWeightsHow	Weights are currently only applied as	Must be
	AbsoluteWeights (in the future an	AbsoluteWeights.
	option may be added to normalized	
	weights to 1.0 accounting for missing	
	data in the traces).	
Year,Weight	Specify pairs of trace year and weights	None – must be specified.
	(0-1.0), used to create the new time	
	series. Trace years must be manually	
	entered because at the time that the	
	command is edited, time series have not	
	yet been queried.	

A sample commands file is as follows:

```
# Create annual traces from a time series shifted to the current year
#
# (1995-1998) ALAMOSA RIVER ABOVE JASPER, CO USGS Streamflow Day
08235350.USGS.Streamflow.Day~HydroBase
createTraces(08235350.USGS.Streamflow.Day,1Year,2004-01-01,ShiftToReference)
TS WeightedTS =
weightTraces(08235350.USGS.Streamflow.Day,AbsoluteWeights,1997,.5,1998,.4,1999,.1)
```

The results from the commands are shown in the following graph:



Results of the weightTraces() Command

TS_weighTraces_Graph

weightTraces() Command	TSTool Documentation
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