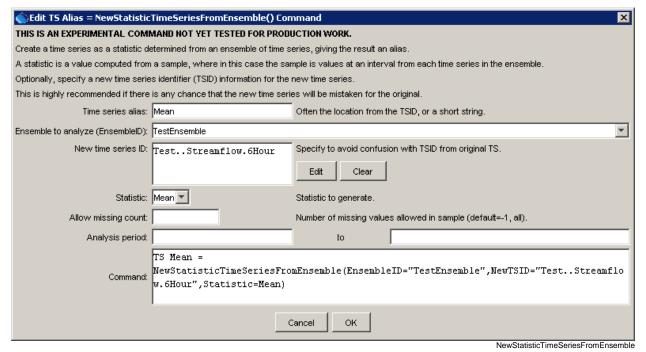
Command Reference: TS Alias = NewStatisticTimeSeriesFromEnsemble()

Create a time series containing a statistic determined from a time series ensemble

Version 08.15.00, 2008-05-04

The TS Alias = NewStatisticTimeSeriesFromEnsemble() command uses data from a time series ensemble to calculate a statistic for each interval in the ensemble, and assigns the statistic value to each corresponding interval for the full period. For example, for a statistic of Mean applied to a daily time series, all January 1, 1970 values will be averaged and the output time series will be set to the mean value for the date. Because the ensemble has overlapping time series that have the same period, leap year will be included if it is in the period of the ensemble.

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



TS Alias = NewStatisticTimeSeriesFromEnsemble() Command Editor

The command syntax is as follows:

TS Alias = NewStatisticTimeSeriesFromEnsemble(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
Alias	The alias of the new time series, which can be used	None – must be
	instead of the TSID in other commands.	specified.
EnsembleID	The ensemble identifier to analyze.	None – must be
		specified.
NewTSID	The time series identifier to be assigned to the new time	None – use the same
	series, which is useful to avoid confusion with the original	identifier as the
	time series.	original time series.
Statistic	See the Available Statistics table below.	None – must be
		specified.
Allow	The number of missing values allowed in the source	-1 – allow any
Missing Count	interval(s) in order to produce a result. This capability	number of missing
	should be used with care because it may result in data that	values
	are not representative of actual conditions.	
AnalysisStart	The date/time for the analysis start, using a precision that	Analyze the full
	matches the original time series.	period.
AnalysisEnd	The date/time for the analysis start, using a precision that	Analyze the full
	matches the original time series.	period.

Available Statistics

Statistic	Description	Limitations
Mean	Mean of all values on an interval.	None.

Examples

The following example command file illustrates how to generate test data and a corresponding statistics time series:

```
TS ts1 = NewPatternTimeSeries(NewTSID="ts1..MAP.6Hour",
    Description="test data 1",SetStart="2000-01-01 00",
    SetEnd="2007-05-13

18",Units="IN",PatternValues="1,2,4,3,5,6,25,10,8,5,1")

CreateEnsemble(TSID="ts1",TraceLength=1Year,
    EnsembleID="TestEnsemble",ReferenceDate="2000-01-01 00",
    ShiftDataHow=ShiftToReference)

TS Mean = NewStatisticTimeSeriesFromEnsemble(EnsembleID="TestEnsemble",
    NewTSID="Test..Streamflow.6Hour",Statistic=Mean)

WriteDateValue(
    OutputFile="Results/Test_NewStatisticTimeSeriesFromEnsemble_1_out.dv")
```