# Command Reference: TS Alias = NewStatisticTimeSeries()

## Create a time series containing a repeating year of statistics determined from a time series

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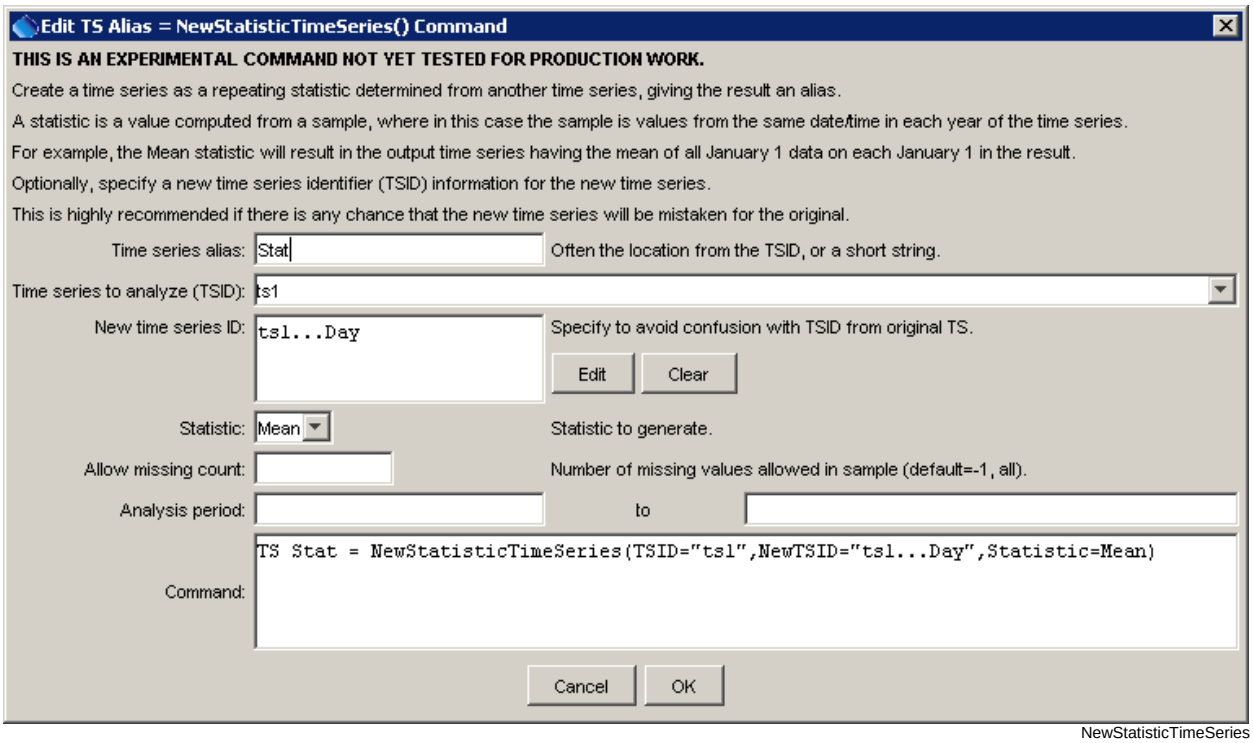
The `TS Alias = NewStatisticTimeSeries()` command uses data from a time series to calculate a statistic for each interval in the year, and assigns the statistic value to each corresponding interval for the full period. For example, for a statistic of `Mean` applied to a daily time series, all January 1 values will be averaged and then the January 1 value for the entire time series will be set to the mean value. This command is useful for superimposing the long-term statistic on current conditions. Leap year statistics are computed and are only visible in leap years of the output time series.

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




NewStatisticTimeSeries

**TS Alias = NewStatisticTimeSeries() Command Editor**

The command syntax is as follows:

```
TS Alias = NewStatisticTimeSeries(Parameter=value,…)
```

**Command Parameters**

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

**Available Statistics**

| Statistic | Description | Limitations |
|---|---|---|
| Mean | Mean of all values on an interval in a year. | None. |

## Examples

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

```
TS ts1 = NewPatternTimeSeries(NewTSID="ts1..MyData.Day",Description="Test
data",SetStart="1950-01-01",SetEnd="1951-03-
12",Units="CFS",PatternValues="5,10,12,13,75")
TS Stat =
NewStatisticTimeSeries(TSID="ts1",NewTSID="ts1...Day",Statistic=Mean)
Free(TSID="ts1")
WriteDateValue(OutputFile="Results\Test_NewStatisticTimeSeries_1_out.dv")
```