## Command Reference: TableTimeSeriesMath()

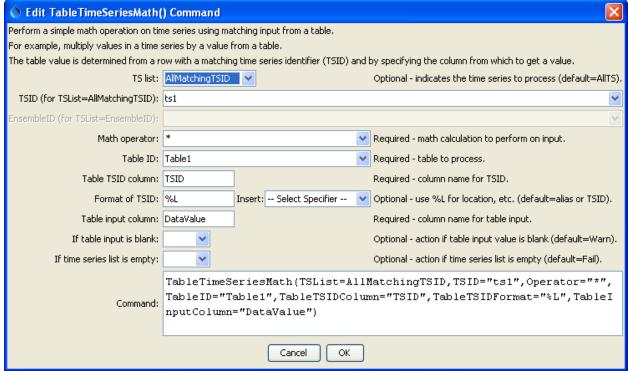
Perform simple math operation on time series using table input

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The TableTimeSeriesMath() command performs a simple math operation on time series using values from a table. For example, a table that is populated by the CalculateTimeSeriesStatistic() command or ReadTableFromDelimitedFile() could be used to modify time series data. See also the TableMath() command.

The table value is determined by matching the time series identifier (formatted according to the TableTSIDFormat parameter) with the TSID value in the table column specified by the TableTSIDColumn parameter. If necessary, use the ManipulateTableString() command to generate an identifier column in the table that allows that match.

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



TableTimeSeriesMath() Command Editor

TableTimeSeriesMath

The command syntax is as follows:

TableTimeSeriesMath(Parameter=Value,...)

## **Command Parameters**

| Parameter | Description                             | Default |
|-----------|---|---------|
| TSList    | Indicates the list of time series to be | AllTS   |
|           | processed, one of:                      |         |

| Parameter                             | Description  | Default  |
|---------------------------------------|--|--|
|                                       | <ul> <li>AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards).</li> <li>AllTS – all time series before the command.</li> <li>EnsembleID – all time series in the ensemble.</li> <li>FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID with wildcards).</li> <li>LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards).</li> <li>SelectedTS – the time series selected with the SelectTimeSeries () command.</li> </ul> |  |
| TSID                                  | The time series identifier or alias for the time series to be processed, using the * wildcard character to match multiple time series.   | Required if TSList=*TSID.  |
| EnsembleID                            | The ensemble to be processed, if processing an ensemble.   | Required if TSList=EnsembleID.   |
| Operator                              | The operator to be applied to the time series and table input.   | None – must be specified.  |
| TableID                               | Identifier for table that provides input.  | None – must be specified.  |
| TableTSIDColumn                       | Table column name that is used to match the time series identifier for processing.   | None – must be specified.  |
| TableTSIDFormat                       | The specification to format the time series identifier to match the TSID column. Use the format choices and other characters to define a unique identifier.  | Time series alias if available, or otherwise the time series identifier. |
| TableInput Column IfTableInputIsBlank | Table column name to retrieve the table value.  Action if time table input is blank during processing (no value to operate on).  | None – must be specified. Warn   |
| IfTSListIsEmpty                       | Action if time series list is empty.   | Fail   |

The delimited file corresponding to that used in the above dialog example is shown below. In this example, the time series identifiers have location parts with values ts1 and ts2.

```
# Simple test data
"TSID", "DataValue"
ts1,2
ts2,3
```