Command Reference: TableTimeSeriesMath()

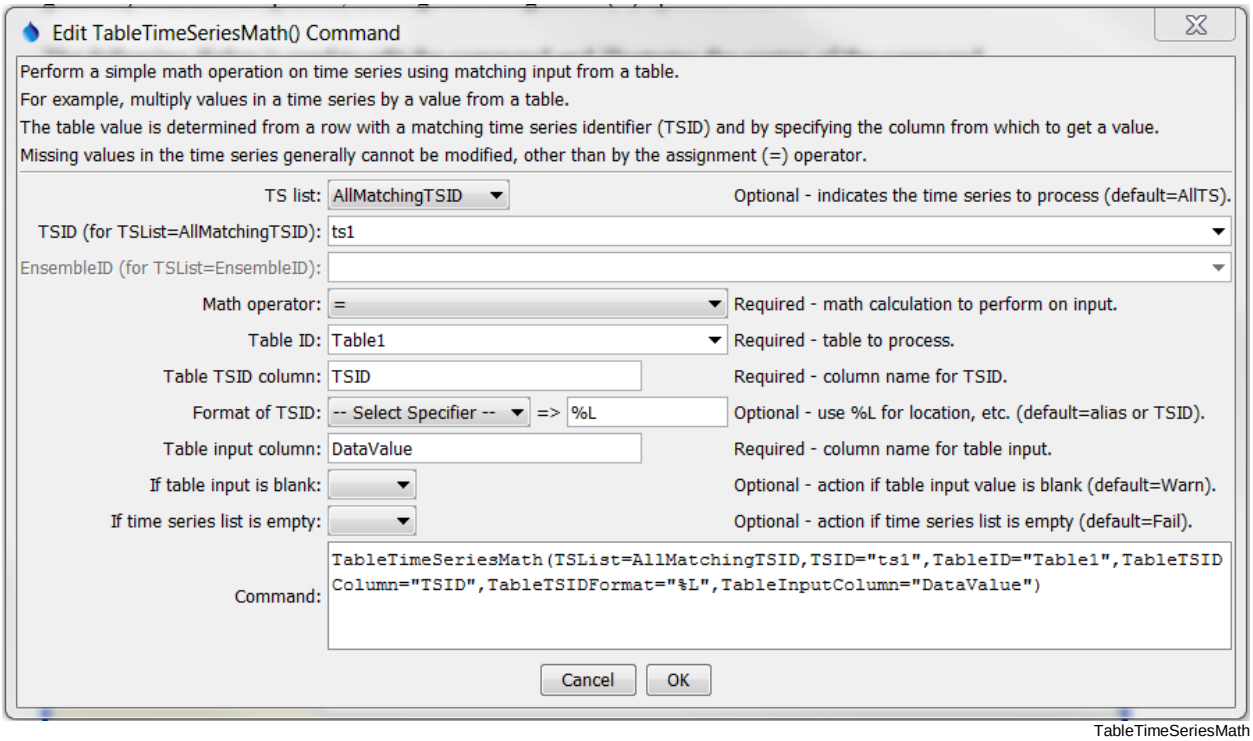
Perform simple math operation on time series using table input

Version 11.11.00, 2016-05-31

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, which performs math on a table.

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. Missing values in the time series generally will not be updated, although the assignment (=) operator will do so.

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



TableTimeSeriesMath

TableTimeSeriesMath() Command Editor

The command syntax is as follows:

```
TableTimeSeriesMath(Parameter=Value,…)
```

Command Parameters

Parameter	Description	Default
TSList	Indicates the list of time series to be processed, one of: • AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards). • AllTS – all time series before the command. • EnsembleID – all time series in the ensemble. • FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID with wildcards). • LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards). • SelectedTS – the time series selected with the SelectTimeSeries() command.	AllTS
TSID	The time series identifier or alias for the time series to be processed, using the * wildcard character to match multiple time series. Can be specified using ${Property}.	Required if TSList=*TSID.
EnsembleID	The ensemble to be processed, if processing an ensemble. Can be specified using ${Property}.	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. Can be specified using ${Property}.	None – must be specified.
TableTSIDColumn	Table column name that is used to match the time series identifier for processing. Can be specified using ${Property}.	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	Table column name to retrieve the table value. Can be specified using ${Property}.	None – must be specified.
IfTableInput IsBlank	Action if time table input is blank during processing (no value to operate on).	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
```