

Command Reference: SelectTimeSeries()

Select time series for additional processing

Version 11.03.00, 2015-06-01

The `SelectTimeSeries()` command selects output time series, as if done interactively, to indicate which time series should be operated on by following commands. The command minimizes the need for the `Free()` command because other commands that operate on a time series list can use `TSLIST=SelectedTS`. See also the `DeselectTimeSeries()` command.

The following dialog is used to edit the command and illustrates the command syntax for selecting time series using the `TSLIST` parameter. This parameter provides the initial filter for the list of time series. In addition to standard `TSLIST` parameter values, the `TSPosition` value is specific to this command.

Edit SelectTimeSeries() Command

This command selects time series, similar to how time series are interactively selected in TSTool results. Selected time series may then be used by other commands using the `TSLIST=SelectedTS` parameter. For example, commands may allow selected time series to be processed, rather than defaulting to all time series. Selections can be specified by the methods listed in the following tabs.

TS List | Match Property | Check Statistic

When matching a time series identifier (TSID) pattern:
The dot-delimited time series identifier parts are Location.DataSource.DataType.Interval.Scenario
The pattern used to select/deselect time series will be matched against aliases and identifiers.
Use * to match all time series.
Use A* to match all time series with alias or location starting with A.
Use *.*.XXXXX.*.* to match all time series with a data type XXXXX.

When selecting time series by specifying time series positions (**not recommended for production work because positions may change**):
The first time series created is position 1.
Separate numbers by a comma. Specify a range, for example, as 1-3. A valid combination is: 1,5-10,13

TS list: **AllMatchingTSID** Optional - indicates the time series to process (default=AllTS).

TSID (for TSLIST=AllMatchingTSID): **40***

EnsembleID (for TSLIST=EnsembleID):

Time series position(s) (for TSLIST=TSPosition): For example, 1,2,7-8 (positions are 1+).

Deselect all first?: **True** Optional - eliminates need for separate deselect (default=False).

If time series not found?: Optional - how to handle case of nothing matched (default=Fail).

Select count property: Optional - processor property to set for number selected.

Command:
`SelectTimeSeries(TSLIST=AllMatchingTSID,TSID="40*",DeselectAllFirst=True)`

Cancel OK

SelectTimeSeries

SelectTimeSeries() Command Editor

The following dialog illustrates how to select time series by matching a string property.

Time series can be matched by specifying a string property.
 Property checks are additive to the TSList parameter.
 Comparisons are case-independent.

Property name: Required - property name to match.
 Property criterion: Required - criterion for to match property.
 Property value: Required - property value to match.

SelectTimeSeries_Property

SelectTimeSeries() Command Editor Specifying a Property to Match

The following dialog illustrates how to select time series by evaluating a time series statistic.

To select time series that have a specific statistic value:

- 1) Check for the statistic using the CheckTimeSeriesStatistic() command and set a property in that command.
- 2) Select time series with the property using the parameters in the Match Property tab of this command.

SelectTimeSeries_Statistic

SelectTimeSeries() Command Editor Specifying a Statistic to Check

The command syntax is as follows:

```
SelectTimeSeries(Parameter=Value,...)
```

Command Parameters

| Parameter | Description | Default |
|-----------|--|---------|
| TSList | <p>Indicates the list of time series to be processed, one of:</p> <ul style="list-style-type: none"> • AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be modified. • AllTS – all time series before the command. • EnsembleID – all time series in the ensemble will be modified (see the EnsembleID parameter). • LastMatchingTSID – the last time series that matches the | AllTS |

| Parameter | Description | Default |
|---------------------|--|--|
| | <p>TSID (single TSID or TSID with wildcards) will be modified.</p> <ul style="list-style-type: none"> • TSPosition – time series specified by position in the results list (see TSPosition parameter below). | |
| TSID | The time series identifier or alias for the time series to be modified, using the * wildcard character to match multiple time series. Can be specified using processor <code>\${Property}</code> . | Required if TSList=*TSID |
| EnsembleID | The ensemble to be modified, if processing an ensemble. Can be specified using processor <code>\${Property}</code> . | Required if TSList=EnsembleID |
| TSPosition | A list of time series positions (1+) in output, separated by commas. Ranges can be specified as Start-End. | Required if TSList=TSPosition |
| DeselectAllFirst | Indicate whether all time series should be deselected before selecting the specified time series: True or False. | False |
| IfNotFound | Indicate how to handle the case of no time series being matched: <ul style="list-style-type: none"> • Ignore – OK if nothing selected • Warn – generate a warning message • Fail – generate a failure message | Fail |
| PropertyName | Name of user-defined property to check. A property, if specified, is additive to selections from the TSList parameter. | |
| PropertyCriterion | Criterion to evaluate to determine which properties match. | Required if PropertyName is specified. |
| PropertyValue | Value to check against the property value, using criterion. Can be specified using processor <code>\${Property}</code> . | Required if PropertyName is specified. |
| SelectCountProperty | If specified, the corresponding time series property will be set to the number of selected time series after the command is executed. This is useful in cases where following | |

| Parameter | Description | Default |
|-----------|---|---------|
| | commands are wrapped in an If () command and should only be executed if the count is > 0. Also use to check for count of 0 and warn with the Message () command. Can be specified using processor \${Property}. | |

A sample command file is as follows:

```
NewPatternTimeSeries (Alias="401234",NewTSID="401234..Precip.Day",
Description="Example data",SetStart="2000-01-01",SetEnd="2000-12-31",
Units="IN",PatternValues="0,1,3,0,0,0")
SelectTimeSeries (TSList=AllMatchingTSID,TSID="40*",DeselectAllFirst=True)
```