

# Command Reference: SelectTimeSeries()

## Select time series for additional processing

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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 | Using Network

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:  Optional - indicates the time series to process (default=AllTS).

TSID (for TSLIST=AllMatchingTSID):

EnsembleID (for TSLIST=EnsembleID):

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

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

If time series not found?:

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

Command:

SelectTimeSeries() Command Editor

SelectTimeSeries

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

TS List Match Property Check Statistic Using Network

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.

TS List Match Property Check Statistic Using Network

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 following dialog illustrates how to select time series by matching locations in a network.

TS List Match Property Check Statistic Using Network

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\_Network

### SelectTimeSeries() Command Editor Specifying Network Nodes

The command syntax is as follows:

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

### Command Parameters

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

Parameter	Description	Default
	<ul style="list-style-type: none"> <li>AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be modified.</li> <li>AllTS – all time series before the command.</li> <li>EnsembleID – all time series in the ensemble will be modified (see the EnsembleID parameter).</li> <li>LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be modified.</li> <li>TSPosition – time series specified by position in the results list (see TSPosition parameter below).</li> </ul>	
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"> <li>Ignore – OK if nothing selected</li> <li>Warn – generate a warning message</li> <li>Fail – generate a failure message</li> </ul>	Fail
PropertyName	Name of user-defined property to check. A property, if specified, is	

Parameter	Description	Default
	additive to selections from the TSList parameter. Can be specified using processor \${Property}.	
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 \${Property}.	Required if PropertyName is specified.
NetworkID	The identifier for the network if selecting based on match of network node identifiers and location part of time series identifier.	Network select is not used.
DownstreamNodeID	The downstream node in the network to match. If preceded by a dash, don't include the node in output.	Network select is not used.
UpstreamNodeIDs	Comma-separated list of upstream network node identifiers to match. If any identifier is preceded by a dash, don't include the node in output.	If selecting from network, select all nodes upstream of the downstream node.
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 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)
```