

Command Reference: CheckTimeSeries()

Check time series data values against criteria

Version 09.03.04, 2009-04-23

The `CheckTimeSeries()` command checks time series data values against criteria, for example to identify missing, bad, or extreme data values. A warning is generated for each match. The `WriteCheckFile()` command can then be used to write a summary of the warnings.

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

Edit CheckTimeSeries() Command

Check time series values and statistics for critical values.
A warning will be generated for each case where a value matches the specified condition(s).
Use the `WriteCheckFile()` command to save the results of all checks.
Specify dates with precision appropriate for the data, use blank for all available data, `OutputStart`, or `OutputEnd`.

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

TSID (for TSList=AllMatchingTSID):

EnsembleID (for TSList=EnsembleID):

Value to check: Optional - check data values or statistic? (default=DataValue). **Statistic is not enabled.**

Check criteria: Required - may require other parameters.

Value1: Optional - minimum (or only) value to check.

Value2: Optional - maximum value in range, or other input to check.

Analysis period: to

Problem type: Optional - problem type to use in output (default=Check).

Command:
`CheckTimeSeries (CheckCriteria=">", Value1=4.5)`

CheckTimeSeries

CheckTimeSeries() Command Editor

The command syntax is as follows:

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

Command Parameters

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

Parameter	Description	Default
	<p>ensemble will be processed.</p> <ul style="list-style-type: none"> • LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be processed. • SelectedTS – the time series selected with the SelectTimeSeries() command will be processed. 	
TSID	The time series identifier or alias for the time series to be modified, using the * wildcard character to match multiple time series.	Required if TSList=*TSID.
EnsembleID	The ensemble to be modified, if processing an ensemble.	Required if TSList=EnsembleID.
ValueToCheck	<p>One of the following:</p> <ul style="list-style-type: none"> • DataValue to indicate that raw data values should be checked. • Statistic to indicate that a statistic computed from data values should be checked (currently not enabled). 	DataValue.
CheckCriteria	<p>The criteria that is checked, one of:</p> <ul style="list-style-type: none"> • AbsChange> – check for absolute change from one value to the next value > Value1 • AbsChangePercent> – check for absolute change in percent from one value to the next value > Value1. • InRange – check for value in range >= Value1 and <= Value2. • OutOfRange – check for value < Value1 or > Value2. • Missing – check for missing values. • Repeat – check for values that are the same as the previous value. • < – check for values < Value1. • <= – check for values <= Value1. • > – check for values > Value1. • >= – check for values >= Value1. • == – check for values equal to Value1. 	None – must be specified.
AnalysisStart	The date/time to start analyzing data.	Full period is analyzed.
AnalysisEnd	The date/time to end analyzing data.	Full period is analyzed.
ProblemType	The problem type that will be shown in warning messages (currently not enabled).	Check