

Command Reference: CheckTimeSeries()

Check time series data values against criteria

Version 09.04.02, 2009-07-31

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).

Maximum warnings: Optional - maximum # of warnings/time series (default=no limit).

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
MaxWarnings	The maximum number of warnings to list for each time series, useful if output is very large.	List all warnings.