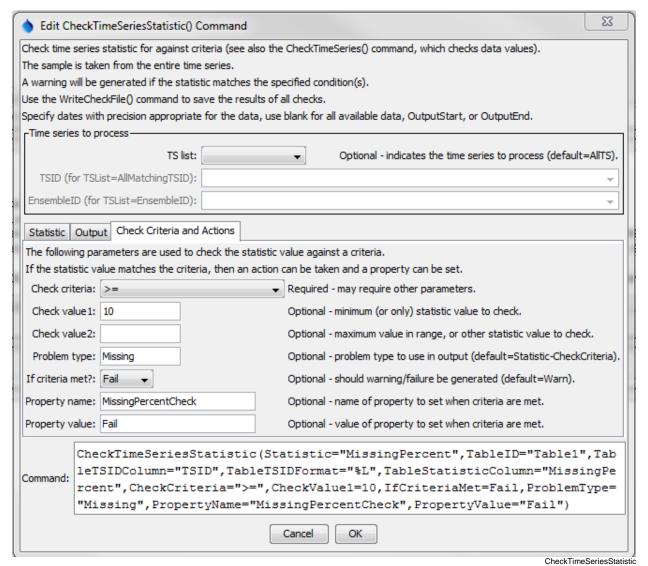
Command Reference: CheckTimeSeriesStatistic()

Check time series statistic against criteria

ersion 10.00.01, 2011-04-26

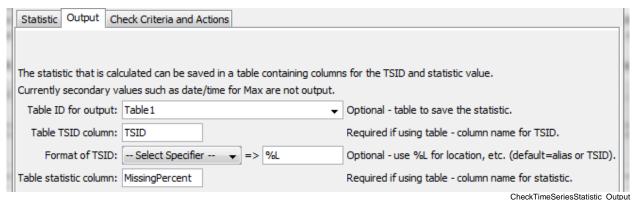
The CheckTimeSeriesStatistic() command checks a time series statistic against criteria, for example to perform quality control using full-period statistics. This command is essentially a combination of the CalculateTimeSeriesStatistic() command with features similar to the CheckTimeSeries() command; however, the latter checks individual data values and this command checks a statistic computed from the entire time series. The WriteCheckFile() command can be used to write a summary of the warnings.

The following dialog is used to edit the command and illustrates the command syntax, in this case to check for time series that have \geq 5% missing data values.



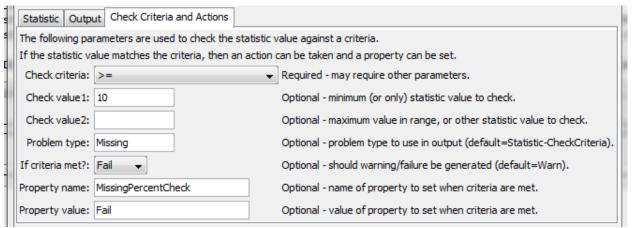
CheckTimeSeriesStatistic() Command Editor for Statistic Parameters

The following parameters will output the location part of the TSID to a column named TSID and the missing percentage to a column named MissingPercent in the output table named Table 1.



CheckTimeSeriesStatistic() Command Editor for Output Parameters

The percentage of missing values is then checked to see if >= 10 and if so the command will fail and the time series will have a property set MissingPercentCheck=Fail.



CheckTimeSeriesStatistic_Output

CheckTimeSeriesStatistic() Command Editor for Check Criteria and Action Parameters

The command syntax is as follows:

CheckTimeSeriesStatistic(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) will be processed. AllTS – all time series before the command will be processed. EnsembleID – all time series in the ensemble will be processed. FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID with wildcards) will be processed. 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. 	AllTS
TSID	The time series identifier or alias for the time series to be processed, 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.
Statistic	Statistic to compute. Refer to the CalculateTimeSeriesStatistic() command documentation.	None – must be specified.
StatisticValue1	Input data required by the statistic. Currently the dialog does not check the value for correctness – it is checked when the statistic is computed.	See the Calculate TimeSeries Statistic() command documentation.
StatisticValue2	Input data required by the statistic. Currently the dialog does not check the value for correctness – it is checked when the statistic is computed.	to the Calculate TimeSeries Statistic() command documentation.
StatisticValue3	Input data required by the statistic. Currently the dialog does not check the value for correctness – it is checked when the statistic is computed.	to the Calculate TimeSeries Statistic() command documentation.
AnalysisStart	The date/time to start analyzing data.	Full period is analyzed.
AnalysisEnd	The date/time to end analyzing data.	Full period is analyzed.

Parameter	Description	Default
TableID	Identifier for table that receives the statistic.	Optional – table
		output is not
		required.
TableTSIDColumn	Table column name that is used to look up the time	Optional – table
	series. If a matching TSID is not found, a row will be	output is not
	added to the table. If a TSID is found, the statistic	required.
	cell value for the time series is modified.	
TableTSIDFormat	The specification to format the time series identifier	Time series alias if
	to insert into the TSID column. Use the format	available, or the time
	choices and other characters to define a unique	series identifier.
T 11 0 1 1 1	identifier.	0 4 1 411
TableStatistic	Table column name to receive the statistic value. If	Optional – table
Column	not found in the table, a new column is added	output is not
CheckCriteria	automatically. The criteria that is checked, one of:	required. None – must be
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	• InRange - check for value >= Value1 and <= Value2.	specified.
	• OutOfRange - check for value < Value1 or >	
	Value2.	
	• <-check for values < CheckValue1.	
	• <=-check for values <= CheckValue1.	
	• >-check for values > CheckValue1.	
	• >= - check for values >= CheckValue1.	
	• == - check for values equal to CheckValue1.	
CheckValue1	A parameter that is used for specific	
	CheckCriteria values.	
CheckValue2	A parameter that is used for specific	
	CheckCriteria values, currently only needed for	
	InRange and OutOfRange criteria.	
ProblemType	The problem type that will be shown in warning	Statistic-
	messages.	CheckCriteria
IfCriteriaMet	Indicate whether to set the command status if the	The command status
	statistic meets the criteria, one of:	will not be changed.
	• Ignore – do not set the command status	
	Warn – set the command status to Warning	
	• Fail – set the command status to Failure	
PropertyName	If the statistic meets the criteria, set the property	No property is set.
	identified by PropertyName to	
	PropertyValue.	
PropertyValue	If the statistic meets the criteria, set the property	No property is set.
	identified by PropertyName to	
	PropertyValue.	