

Command Reference: WriteTimeSeriesToDataStream()

Write time series to a file as a stream of data records

Version 10.22.00, 2013-08-11

The `WriteTimeSeriesToDataStream()` command writes time series to a file as a stream of formatted data lines. This command is useful for processing data that are input to a data management system.

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

Edit WriteTimeSeriesToDataStream() Command

This command is under development.
Write time series to a data stream format file, which consists of a simple header, data records for each value, and a simple footer.
The working directory is: C:\Develop\TSTool_SourceBuild\TSTool\test\regression\commands\general\WriteTimeSeriesToDataStream
The output filename can be specified using \${Property} notation to utilize global properties.
Enter date/times to a precision appropriate for output time series.

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

TSID (for TSList=AllMatchingTSID):

EnsembleID (for TSList=EnsembleID):

Data stream file to write: Results/Test_WriteTimeSeriesToDataStream_Irregular15min_out.dv

Append to file?: ☐ Optional - whether to append to output file (default=True).

Output file header: Test header Optional - content to add at top of output file.

Data line format: %v %q Required - format for each data line.

Output file footer: Test footer Optional - content to add at bottom of output file.

Output precision: Optional - digits after decimal (default=4).

Missing value: Optional - value to write for missing data (default=initial missing value).

Output start: Optional - override the global output start (default=write all data).

Output end: Optional - override the global output end (default=write all data).

Command:

```
WriteTimeSeriesToDataStream(OutputFile="Results/Test_WriteTimeSeriesToDataStream_Irregular15min_out.dv",OutputFileHeader="Test header",OutputLineFormat="%v %q",OutputFileFooter="Test footer")
```

WriteTimeSeriesToDataStream

WriteTimeSeriesToDataStream() Command Editor

The command syntax is as follows:

`WriteTimeSeriesToDataStream(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)	AllTS

Parameter	Description	Default
	<p>will be processed.</p> <ul style="list-style-type: none"> AllTS – all time series before the command. 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 are those selected with the <code>SelectTimeSeries()</code> command. 	
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 <code>TSList=*TSID</code> .
EnsembleID	The ensemble to be processed, if processing an ensemble.	Required if <code>TSList=EnsembleID</code> .
OutputFile	The output file. The path to the file can be absolute or relative to the working directory (command file location). Global properties can be used to specify the filename, using the <code>\${Property}</code> syntax.	None – must be specified.
Append	Indicate whether content should be appended to existing file. Need to figure out how to handle header and footer.	
OutputFile Header	Text that will be added to the top of the output file.	Do not include header content.
OutputLine Format	Format that is used for each data value. Need to insert explanation of formats including <code>\${ts:property}</code> for time series properties and <code>%v</code> formats similar to graph data point label formatters.	Date and value.
OutputFile Footer	Text that will be added to the bottom of the output file.	Do not include footer content.
Precision	The number of digits after the decimal for numerical output.	4 (in the future may default based on data type)
MissingValue	The value to write to the file to indicate a missing value in the time series.	As initialized when reading the time series or creating a new time series, typically -999, NaN, or another value that is not expected in data.
OutputStart	The date/time for the start of the output.	Use the global output period.
OutputEnd	The date/time for the end of the output.	Use the global output period.