

Command Reference: WriteDateValue()

Write time series to a DateValue format file

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The `WriteDateValue()` command writes time series to the specified DateValue format file. See the **DateValue Input Type Appendix** for more information about the file format. The time series being written must have the same data interval – use the `TSList` parameter to select appropriate time series.

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

Edit WriteDateValue() Command

Write time series to a DateValue format file, which can be specified using a full or relative path (relative to the working directory).
The working directory is: C:\Develop\TSTool_SourceBuild\TSTool\test\regression\UserManualExamples\TestCases\CommandReference\WriteDateValue
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):

DateValue file to write:

Delimiter: Optional - delimiter between values (default=space, comma is only other allowed delimiter).

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).

Interval for irregular time series: Required for irregular time series - used to process date/times.

Command:

```
WriteDateValue (OutputFile="Results/Diversions.dv")
```

WriteDateValue

WriteDateValue() Command Editor

The command syntax is as follows:

`WriteDateValue (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.EnsembleID – all time series in the ensemble will be processed.FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID	AllTS

Parameter	Description	Default
	<p>with wildcards) 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 are those selected with the SelectTimeSeries() 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 TSList=*TSID.
EnsembleID	The ensemble to be processed, if processing an ensemble.	Required if TSList=EnsembleID.
OutputFile	The DateValue 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 \${Property} syntax.	None – must be specified.
Delimiter	The delimiter character to use between data values. Comma is the only other allowed value other than the default space and is recommended for irregular time series, which are output as blanks when date/times don't align with other time series.	Space.
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.
Irregular Interval	The interval (e.g., Day) used when writing irregular time series, to indicate the precision of date/times. This may be necessary when it is not possible to automatically determine the date/time precision. The date/time precision to format output is assumed to be Minute if unknown; however, specifying the irregular interval will inform the data processing.	Determined from the period start date/time of each time series, defaulting to Minute where the date/time precision is set to "irregular" (unknown).

A sample command file to process data from the State of Colorado's HydroBase database is as follows:

```
# 0100503 - RIVERSIDE CANAL
0100503.DWR.DivTotal.Month~HydroBase
WriteDateValue(OutputFile="Diversions.dv")
```