## Command Reference: WriteHecDss()

Write time series to a HEC-DSS File

Version 11.08.00, 2016-02-03

The WriteHecDss () command writes time series to a HEC-DSS file. See the **HEC-DSS Input Type Appendix** for information about how time series properties are output to HEC-DSS files. Current limitations of the command are:

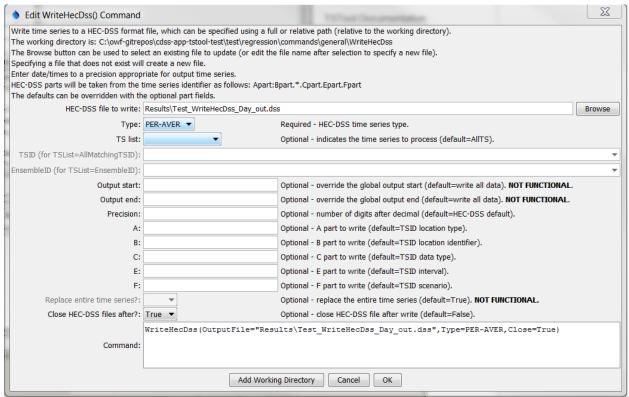
- Irregular time series are not supported the focus of initial development has been regular interval time series.
- 24-hour time series in TSTool cannot be written to HEC-DSS because HEC-DSS only supports 1DAY interval. Therefore, the time series must be converted to a daily time series before writing. An option to convert 24-hour values to 1DAY may be added to this command in the future.
- HEC-DSS uses times through 2400. TSTool will convert this to 0000 of the next day. Year, month, and day data are not impacted. The internal TSTool values will be converted to hour 2400 when writing. Therefore, reading from a HEC-DSS file and then writing should result in no change in data.
- Time series that are written overwrite existing time series, but only for the period that is written. Therefore, previously written values may remain, even if not appropriate. A future enhancement will allow the option of removing the old data before writing new data. The work-around is to write a period that is sufficiently long to guarantee that old data values do not remain in the file, or clear the file out with another tool such as DSSUTL before writing.
- Currently the connections to the HEC-DSS file will remain open after the write, in order to minimize performance degradation for multiple write commands. However, this will lock the HEC-DSS file so that other commands or programs cannot perform file manipulation, such as removing the file. The connections will automatically time out after several minutes. A future enhancement will ensure that the file connections can be closed.

The A-F parts of the HEC-DSS time series pathname by default are taken from the time series properties, as follows:

- The A part is taken from the time series location type.
- The B part is taken from the time series location.
- The C part is taken from the time series data type.
- The D part is taken from the time series period in memory or as defined by the output period.
- The E part is taken from the time series interval.
- The F part is taken from the time series identifier scenario.

These conventions can be overruled by specifying the parts explicitly with command parameters. The parameter values will apply to all time series being written.

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



WriteHecDss() Command Editor

WriteHecDss

The command syntax is as follows:

WriteHecDss (Parameter=Value, ...)

## **Command Parameters**

Parameter	Description	Default
OutputFile	The name of the HEC-DSS file to write,	None – must be specified.
	surrounded by double quotes to protect	
	whitespace and special characters. If the file	
	does not exist it will be created. Can be	
	specified using \${Property} notation.	
Type	The HEC-DSS time series type, indicating	None – must be specified.
	whether the time series is instantaneous, mean,	
	or accumulated.	
TSList	Indicates the list of time series to be processed,	AllTS
	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.	

Parameter	Description	Default
	• 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 selected with the	
	SelectTimeSeries() command will	
	be processed.	
TSID	The time series identifier or alias for the time	Required if TSList=*TSID.
	series to be processed, using the * wildcard	
	character to match multiple time series. Can	
	be specified using \${Property} notation.	
EnsembleID	The ensemble to be processed, if processing an	Required if TSList=
	ensemble. Can be specified using	EnsembleID.
	\${Property} notation.	
OutputStart	The date/time for the start of the output. Can	Use the global output period or
0 + + = 1	be specified using \${Property} notation.	write all available data.
OutputEnd	The date/time for the end of the output. Can be	Use the global output period or
Descipion	specified using \${Property} notation.	write all available data.
Precision	The number of digits after the decimal for	HEC-DSS default.
A	numerical output.  The DSS path A-part to use for the time series	Time series identifier location
71	as written to the HEC-DSS file. Can be	part before the : (if : is present)
	specified using \${Property} notation.	or the entire location if: is not
	specified using + (110po10) notation.	present.
В	The DSS path B-part to use for the time series	Time series identifier location
	as written to the HEC-DSS file. Can be	part after the : (if : is present) or
	specified using \${Property} notation.	the blank if: is not present.
С	The DSS path C-part to use for the time series	Time series identifier data type.
	as written to the HEC-DSS file. Can be	
	specified using \${Property} notation.	
E	The DSS path E-part to use for the time series	Time series identifier data
	as written to the HEC-DSS file. Can be	interval, converted to HEC-
_	specified using \${Property} notation.	DSS conventions.
F	The DSS path F-part to use for the time series	Time series identifier scenario.
	as written to the HEC-DSS file. Can be	
Replace	specified using \${Property} notation.  Under development – whether to replace the	Only replace what is actually
Vehrace	contents of the previous time series in the	written.
	HEC-DSS file.	written.
Close	Indicate whether to close connections to the	False – let the HEC-DSS
_	HEC-DSS file and allow other processes to	internal software close the
	move/rename/delete the file. Specifying as	connection after timing out.
	True may slow the software as files are	
	repeatedly opened and closed.	

## A sample command file is as follows:

WriteHecDss(OutputFile="sample.dss", TYPE=PER-AVER,
OutputStart="1992-01-01", OutputEnd="1992-12-31")