
Command Reference: writeNWSRFSESPTraceEnsemble()

Write Time Series Traces to an NWSRFS ESP Trace Ensemble Format File

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The `writeNWSRFSESPTraceEnsemble()` command writes time series traces to the specified NWSRFS ESP trace ensemble file. See the **NWSRFS ESP Trace Ensemble Input Type Appendix** for more information about the file format. The time series should have the same header information, with the sequence number indicating the trace years.

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

Edit writeNWSRFSESPTraceEnsemble() Command

This command writes in-memory time series to an NWSRFS ESP trace ensemble file.
Currently, only conditional simulation (CS) trace files can be written.
The time series to write must be traces having a consistent period, and the sequence numbers must be defined.
For example, traces read from a DateValue file or created with the `createTraces()` command can be processed.
The file can be specified using a full or relative path (relative to the working directory).
The working directory is: J:\CDSS\develop\Apps\TSTool\test\Data_ESPTraceEnsemble\NewHampshire
The Browse button can be used to select an existing file to overwrite (or edit the file name after selection).
To be understood by the NWS ESPADP program, the file name should adhere to the format:
Segment.Location.DataType.HH.CS
where the DataType is an NWSRFS data type and the interval HH is padded with zeros.

File to write:

Carryover group: Carryover group (optional).

Forecast group: Forecast group (optional).

Segment: Segment (optional) - default is 1st part of file name.

Segment description: Segment description (optional) - default is from first time series.

Latitude: Latitude, decimal degrees (optional).

Longitude: Longitude, decimal degrees (optional).

RFC: River Forecast Center abbreviation (optional).

TS list: Indicates the time series to output.

Command:

writeNWSRFSESPTraceEnsemble

writeNWSRFSESPTraceEnsemble() Command Editor

The command syntax is as follows:

```
writeNWSRFSESPTraceEnsemble(param=value,...)
```

Command Parameters

Parameter	Description	Default
OutputFile	The NWSRFS ESP trace ensemble output file. The path to the file can be absolute or relative to the working directory. The Browse button can be used to select the file to write (if a relative path is desired, delete the leading path after the select).	None – must be specified.
CarryoverGroup	The carryover group to use in the trace file header information	Blank.
ForecastGroup	The forecast group to use in the trace file header information.	Blank.
Segment	The segment identifier to use in the trace file header information.	Location part of the time series identifier, from the first time series.
SegmentDescription	The segment description to use in the trace file header information.	Blank.
Latitude	The latitude for the station to use in the trace file header information, decimal degrees.	Missing.
Longitude	The longitude for the station to use in the trace file header information, decimal degrees.	Missing.
RFC	The river forecast center to use in the trace file header information.	Blank.
TSList	Indicates the time series to be output, one of: <ul style="list-style-type: none"> AllTS – all available time series will be output. SelectedTS – time series that have been selected with the selectTimeSeries() command will be output. 	AllTS

A sample commands file to convert traces in a DateValue file is as follows:

```
readDateValue("FRANH.ESP.SQME.1HOUR.QPF1.TRACE2001_NEW")
writeNWSRFSESPTraceEnsemble(OutputFile="FRANH.FRANH.SQME.01.CS",
CarryoverGroup="FRANH",ForecastGroup="FRANH",
SegmentDescription="FRANH",Latitude=43,Longitude=-72,RFC="NH")
```