

# Command Reference: ReadStateModB()

## Read time series from a StateMod binary output time series file

Version 09.05.03, 2009-11-17

The `ReadStateModB()` command reads time series from a StateMod binary output time series file (see the **StateModB Input Type Appendix**). The identifiers (or aliases) from the time series will be available as choices when editing other commands. If this causes performance issues due to the large number of time series that may be read, limit the time series that are read using the `TSID` parameter.

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

**Edit ReadStateModB() Command**

Read time series from a StateMod binary output file, using information in the file to assign the identifier.  
Specify a full or relative path (relative to working directory).  
The working directory is: C:\Develop\TSTool\_SourceBuild\TSTool\test\regression\commands\general\ReadStateModB  
The time series identifier pattern, if specified, will filter the read.  
Use blank or \* to read all time series.  
Use A\* to read all time series location starting with A.  
Use \*,\*,XXXXX.\*,\* to read all time series with data type XXXXX.  
Currently, data source, interval, and scenario are internally defaulted to \*.

StateMod binary file to read:

Time series ID:  Optional - specify a TSID pattern to match (default is all).  
Input start:  Optional - override the global input start.  
Input end:  Optional - override the global input end.  
StateMod version:  Optional - for files prior to StateMod version 11 (default is current version)  
Alias to assign:  Insert:   Optional - use %L for location, etc. (default=no alias).

Command:  

```
ReadStateModB ( InputFile="Data/ex7_Version12.29.b43", TSID="*,*.Available_Flow.*,*", Alias="%L-%T")
```

**ReadStateModB() Command Editor**

ReadStateModB

The command syntax is as follows:

```
ReadStateModB (Parameter=Value,...)
```

### Command Parameters

Parameter	Description	Default
InputFile	The name of the StateMod binary time series file to read, surrounded by double quotes. The path to the file can be absolute or relative to the working directory. Global property values can be inserted using the syntax <code>\${PropertyName}</code> (see also the <code>SetProperty()</code> command).	None – must be specified.
TSID	Time series identifier pattern to filter the read.	Read all time series.
InputStart	The starting date/time to read data, specified to Day or Month precision based on whether a daily or monthly model run.	Read all data.
InputEnd	The ending date/time to read data, specified to Day or Month precision based on whether a daily or monthly model run.	Read all data.
Version	StateMod version number corresponding to the file, necessary because the file version number (and consequently parameters) cannot be automatically detected in older versions. Changes in binary file format occurred with version 9.01 and 9.69, mainly to add new data types. The StateMod file version for version 11+ is automatically detected.	Detect from the file if possible.
Alias	The alias to assign to the time series that are read. Use the format choices and other characters to define a unique alias.	No alias is assigned.

The following example command file illustrates how to read all `Available_Flow` time series for identifiers starting with 44 (e.g., to extract all such time series for a water district):

```
ReadStateModB(InputFile="..\StateMod\ym2002b.b43",TSID="44*.*.Available_Flow.*")
```

The following example illustrates how to read all time series from a binary file that was created with StateMod version 9.53. As shown in the example, debug can be turned on for the log file to evaluate issues with the file format.

```
StartLog(LogFile="commands.TSTool.log")
SetDebugLevel(0,1)
ReadStateModB(InputFile="COLOFB.B43",Version="9.53")
```