

Command Reference: NewTimeSeries()

Create a new time series

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The `NewTimeSeries()` command creates a new time series in memory and assigns it an alias. This time series then can be manipulated (e.g., added to, filled). The command is useful, for example, to create a new time series to receive the results of a series of manipulations, rather than having the results accumulate in the first time series.

The following dialog is used to edit the command and illustrates the syntax for the command. The new time series identifier, which provides critical information including the data interval, is edited by pressing the **Edit** button.

Edit NewTimeSeries() Command

Create a new time series, which can be referenced using the alias or TSID.
Specify period start and end date/times using a precision consistent with the data interval.
If the start and end for the period are not set, then a `SetOutputPeriod()` command must be specified before the command.

Alias to assign: Insert: Required - use %L for location, etc.

New time series ID: Required - specify unique TSID information to define time series.

Description/Name: Optional - description for time series.

Start: Optional - starting date/time for data (default=global start).

End: Optional - ending date/time for data (default=global end).

Data units: Optional - for example: ACFT, CFS, IN (default=no units).

Initial value: Optional - default is to initialize with the missing value.

Command:

```
NewTimeSeries(Alias="station1",NewTSID="Station1.MyModel.Streamflow.Month",Description="Example Description",SetStart="1950-01",SetEnd="2002-12",Units="CFS",Initial Value=20)
```

NewTimeSeries

NewTimeSeries() Command Editor

The command syntax is as follows:

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

The following older command syntax is updated to the above syntax when a command file is read:

```
TS Alias = NewTimeSeries (Parameter=Value,...)
```

Command Parameters

| Parameter | Description | Default |
|--------------|---|---|
| Alias | The alias to assign to the time series, as a literal string or using the special formatting characters listed by the command editor. The alias is a short identifier used by other commands to locate time series for processing, as an alternative to the time series identifier (TSID). | None – must be specified. |
| NewTSID | The time series identifier of the new time series. The editor dialog formats the identifier from its parts. | None – must be specified with at least minimal information (location, data type, and interval). |
| Description | The description for the time series, used in output. | Blank. |
| SetStart | The start of the time series data period, or blank to use the output period defined with the SetOutputPeriod() command. | Use the start from SetOutputPeriod(). |
| SetEnd | The end of the time series data period, or blank to use the output period defined with the SetOutputPeriod() command. | Use the end from SetOutputPeriod(). |
| Units | Data units for the time series. | Blank. |
| InitialValue | The initial value to populate the time series. | Initialize the time series to missing data. |

The example command file shown below creates a new time series and initializes it to a constant of 20 CFS. Uncommenting the first command would allow the SetStart and SetEnd parameters to be removed from the NewTimeSeries() command. The interval (Month below) must match a recognized type but the other parts of the identifier such as data type are user-defined.

```
#SetOutputPeriod(OutputStart="1950-01",OutputEnd="2002-12")
NewTimeSeries(Alias="station1",NewTSID="Station1.MyModel.Streamflow.Month",
  Description="Example Description",SetStart="1950-01",
  SetEnd="2002-12",Units="CFS",InitialValue=20)
```