Command Reference: NewPatternTimeSeries()

Create a new time series containing a pattern of repeating values

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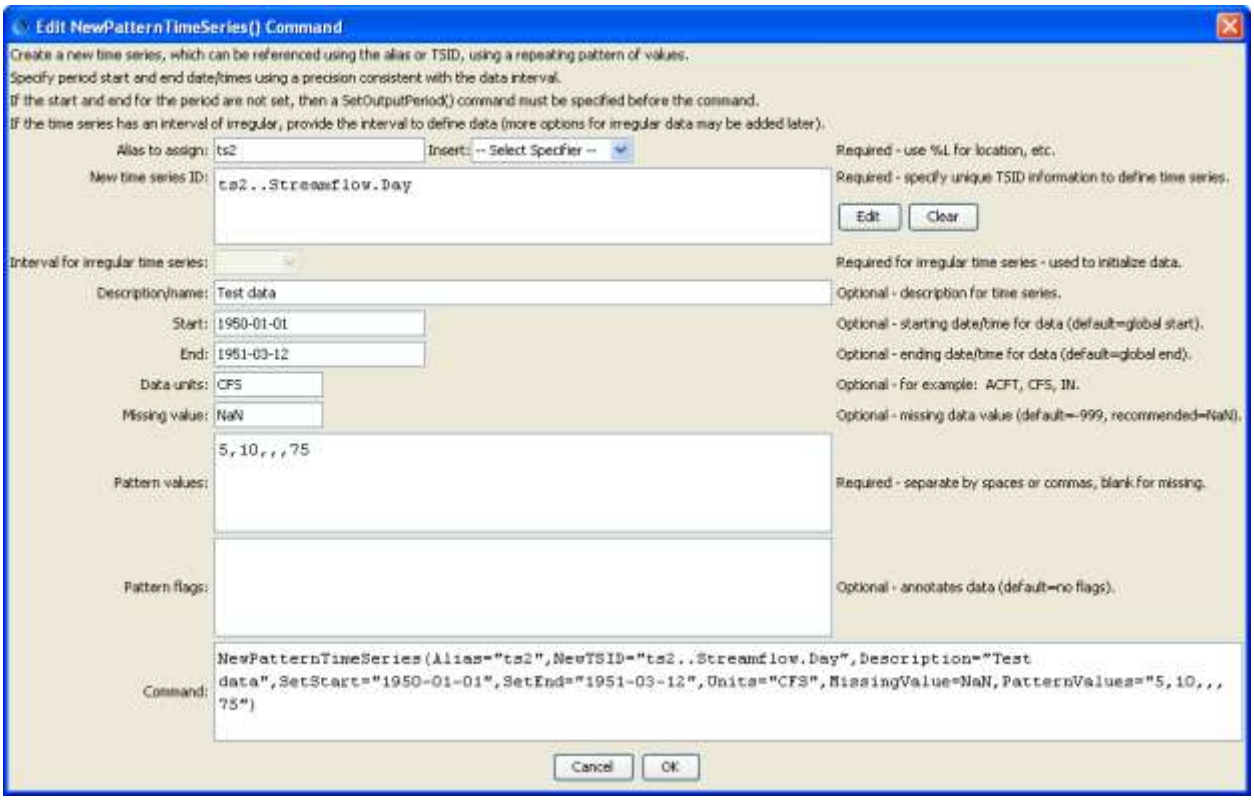
The `NewPatternTimeSeries()` command creates a new time series containing a repeating pattern of numbers. This command is useful for generating data to test other commands.

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



NewPatternTimeSeries

NewPatternTimeSeries() Command Editor

The command syntax is as follows:

```
NewPatternTimeSeries(Parameter=Value,…)
```

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

```
TS Alias = NewPatternTimeSeries(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). Can be specified using processor `${Property}`.	None – must be specified.
`NewTSID`	The time series identifier to be assigned to the new time series, which is useful to avoid confusion with the original time series. Can be specified using processor `${Property}`.	None – must be specified.
`IrregularInterval`	Interval to use to populate irregular time series (e.g., `1Hour`, `Month`), necessary because data need to be assigned somehow.	None – must be specified for irregular time series.
`Description`	Description for the time series. Can be specified using processor `${Property}`.	None.
`SetStart`	Start date/time to set data. Can be specified using processor `${Property}`.	None – must be specified.
`SetEnd`	End date/time to set data. Can be specified using processor `${Property}`.	None – must be specified.
`Units`	Units for the data values. Can be specified using processor `${Property}`.	None.
`MissingValue`	Value to use to indicate missing data values. `-999` is the default for historical reasons; however, `NaN` (not a number) is being phased in and should be specified if possible. Time series can be missing and be flagged. Can be specified using processor `${Property}`.	`-999`
`PatternValues`	Data values, separated by commas. Missing values can be omitted (e.g., indicate with adjacent commas).	None – must be specified.
`PatternFlags`	Short strings to assign to the values (used to annotate graphs and other output) separated by commas. Missing flags can be omitted (e.g., indicate with adjacent commas).	No flags are assigned.

Examples

The following example command file illustrates how to create a pattern time series for testing:

```
NewPatternTimeSeries(Alias="ts1",NewTSID="ts1..Streamflow.Day",
  Description="Test data",SetStart="1950-01-01",
  SetEnd="1951-03-12",Units="CFS",PatternValues="5,10,12,13,75")
WriteDateValue(OutputFile=",Example_NewPatternTimeSeries_out.dv")
```