

# 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.

**Edit NewPatternTimeSeries() Command**

Create a new time series, which can be referenced using the alias or TSID, using a repeating pattern of values.  
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.  
If the time series has an interval of irregular, provide the interval to define data (more options for irregular data may be added later).

Alias to assign:  Insert:

New time series ID:

Interval for irregular time series:  Required for irregular time series - used to initialize data.

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.

Pattern values:  Required - separate by spaces or commas, blank for missing.

Pattern flags:  Optional - annotates data (default=no flags).

Command: 

```
NewPatternTimeSeries (Alias="MyLoc", NewTSID="MyLoc..MyData.Day", Description="Test data", SetStart="1950-01-01", SetEnd="1951-03-12", Units="CFS", PatternValues="5, 10, 12, 13, 75")
```

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).	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.	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.	None.
SetStart	Start date/time to set data.	None – must be specified.
SetEnd	End date/time to set data.	None – must be specified.
Units	Units for the data values.	None.
PatternValues	Data values, separated by commas.	None – must be specified.
PatternFlags	Short strings to assign to the values (used to annotate graphs and other output) separated by commas.	No flags are assigned.

### Examples

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

```
NewPatternTimeSeries(Alias="MyLoc",NewTSID="MyLoc..MyData.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")
```