
Command Reference: SetInputPeriod()

Set the period for reading time series from files and querying from databases

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The `SetInputPeriod()` command sets the period used for reading time series data from files and datastores. The default in most cases is to read/query all available data so that all data are available for analysis and data filling. However, a shorter period may be desirable to increase performance (e.g., when processing real-time data) or to force matching a historical period. It may be necessary to set the input period if the default for a datastore is very short. See also the `SetOutputPeriod()` command.

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

Edit SetInputPeriod() Command

The default input period constrains the period when reading data from files and databases. Use this command if a limited data period is necessary (e.g., to improve performance) or if the default input period is overly constrained. Using a `SetInputPeriod()` command may result in incomplete data being available for data filling. Enter date/times to a precision appropriate for time series being read. For example:

- Year data: YYYY
- Month data: MM/YYYY or YYYY-MM
- Day data: MM/DD/YYYY or YYYY-MM-DD
- Hour data: MM/DD/YYYY HH or YYYY-MM-DD HH
- Minute data: MM/DD/YYYY HH:mm or YYYY-MM-DD HH:mm

Special values are also recognized (for all precisions):

- CurrentToYear = the current date to year precision
- CurrentToMinute = the current date/time to minute precision
- CurrentToMinute - 7Day = current date/time minus 7 days
- CurrentToMinute + 7Day = current date/time plus 7 days
- \${Property} = processor property as DateTime object or date/time string

Leave blank to read all available data (default if `SetInputPeriod()` command is not used).

Input period start:

Input period end:

Command:

SetInputPeriod

SetInputPeriod() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
InputStart	<p>The date/time to start reading/querying time series data, one of:</p> <ul style="list-style-type: none"> A date/time string (see dialog above for examples). CurrentToYear, CurrentToMonth, CurrentToDay, CurrentToHour, CurrentToMinute, indicating the current date/time to the specified precision. A Current* value +/- an interval, for example: CurrentToMinute - 7Day A processor property indicated with \${Property} 	None – must be specified.
InputEnd	<p>The date/time to end reading/querying time series data, one of:</p> <ul style="list-style-type: none"> A date/time string (see dialog above for examples). CurrentToYear, CurrentToMonth, CurrentToDay, CurrentToHour, CurrentToMinute, indicating the current date/time to the specified precision. A Current* value +/- an interval, for example: CurrentToMinute - 7Day An expression involving InputStart, used similar to the Current* values. A processor property indicated with \${Property} 	None – must be specified.

A sample command file for historical data from the State of Colorado's HydroBase is as follows:

```
SetInputPeriod(InputStart="1950-01", InputEnd="2000-09")
# 06754000 - SOUTH PLATTE RIVER NEAR KERSEY
06754000.DWR.Streamflow.Month~HydroBase
```

A sample command file for real-time data is as follows:

```
SetInputPeriod(InputStart="CurrentToMinute - 14Day",
  InputEnd="CurrentToMinute + 1Hour")
# 06754000 - SOUTH PLATTE RIVER NEAR KERSEY
06754000.DWR.Streamflow-DISCHRG.Irregular~HydroBase
```