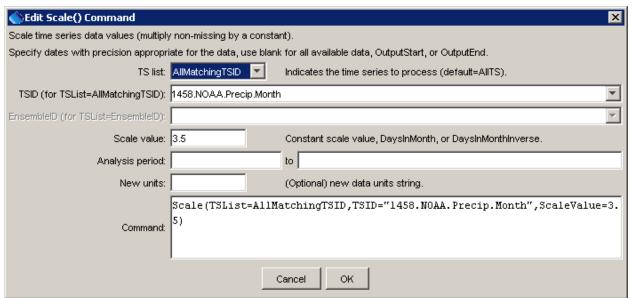
Command Reference: Scale()

Scale time series data values by a constant value

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The Scale () command scales each non-missing value in the specified time series.

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



Scale() Command Editor

Scal

The command syntax is as follows:

Scale(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
TSList	Indicates the list of time series to be	AllTS
	processed, one of:	
	• AllMatchingTSID – all time series	
	that match the TSID (single TSID or	
	TSID with wildcards) will be modified.	
	• AllTS – all time series before the	
	command.	
	• EnsembleID – all time series in the	
	ensemble will be modified.	
	• LastMatchingTSID – the last time	
	series that matches the TSID (single	
	TSID or TSID with wildcards) will be	
	modified.	
	• SelectedTS – the time series are those	

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Parameter	Description	Default
	selected with the	
	SelectTimeSeries() command.	
TSID	The time series identifier or alias for the time	TSID or EnsembleID
	series to be modified, using the * wildcard	must be specified if
	character to match multiple time series.	identifiers are being
		matched.
EnsembleID	The ensemble to be modified, if processing an	TSID or EnsembleID
	ensemble.	must be specified if
		identifiers are being
		matched.
ScaleValue	One of the following:	None – must be specified.
	• The numerical value to scale to the time	
	series.	
	• DaysInMonth to indicate a scale of the	
	number of days in the month.	
	• DaysInMonthInverse to indicate a	
	scale of the inverse of the number of days	
	in the month.	
AnalysisStart	The date/time to start analyzing data.	Full period is analyzed.
AnalysisEnd	The date/time to end analyzing data.	Full period is analyzed.
NewUnits	New data units for the resulting time series.	Do not change the units.

The following example scales a precipitation time series from the State of Colorado's HydroBase by a factor of 3.5:

```
# 1458 - CENTER 4 SSW
1458.NOAA.Precip.Month~HydroBase
Scale(TSList=AllMatchingTSID,TSID="1458.NOAA.Precip.Month",ScaleValue=3.5)
```

The following example scales a monthly streamflow time series with units of ACFT (volume per month) in order to convert the data to average CFS flow values (note that two scale commands are required because the <code>DaysInMonthInverse</code> value cannot currently be combined with a numerical value in one command). See also the <code>ConvertDataUnits()</code> command for simple units conversions.

```
# 06754000 - SOUTH PLATTE RIVER NEAR KERSEY
06754000.DWR.Streamflow.Month~HydroBase
Scale(TSList=AllMatchingTSID,TSID="06754000.DWR.Streamflow.Month",
    ScaleValue=.5042)
Scale(TSList=AllMatchingTSID,TSID="06754000.DWR.Streamflow.Month",
    ScaleValue=DaysInMonthInverse,NewUnits="CFS")
06754000.DWR.Streamflow.Month~HydroBase
```