Command Reference: subtract()

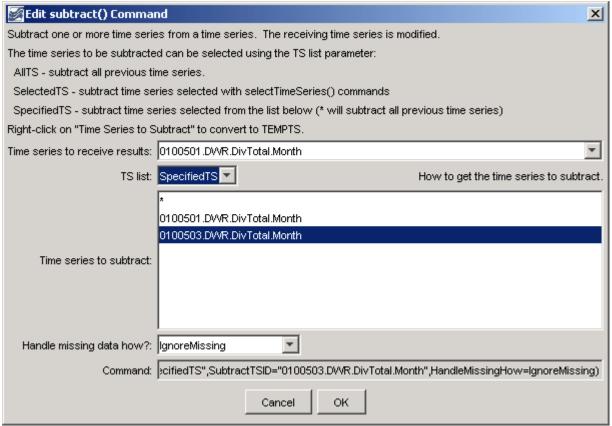
Subtract One or More Time Series From Another Time Series

Version 06.10.00, 2005-02-23, Color, Acrobat Distiller

The subtract() command subtracts time series of the same interval. The receiving time series will have data values set to its original values minus the data values in the indicated time series. This command replaces the older subtract() command, which did not have the flag indicating how to handle missing data.

This command will generate an error if the time series do not have compatible units. If the units are compatible but are not the same (e.g., IN and FT), then the units of the part will be converted to the units of the result before subtraction. Missing data in the parts can be ignored (do not set the result to missing) or can set missing values in the result. The user should consider the implications of ignoring missing data. Time series being subtracted must have the same data interval.

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



subtract() Command Editor

subtract

subtract() Command TSTool Documentation

The command syntax is as follows:

subtract(param=value,...)

Command Parameters

Parameter	Description	Default
TSID	The time series identifier or alias for the	None – must be specified.
	time series to receive the result.	
TSList	Indicates how the list of time series is	AllTS
	specified, one of:	
	• AllTS – all time series prior to the	
	command.	
	• SelectedTS – the time series are	
	those selected with the	
	selectTimeSeries()	
	command.	
	• SpecifiedTS – the specified list	
	of time series given by the	
Cubbase stage	SubtractTSID parameter.	N 1
SubtractTSID	If the TSList parameter is	Must be specified if
	SpecifiedTS, provide the list of time	TSList=SpecifiedTS,
	series identifiers (or alias) to subtract. Right clicking on a time series allows	ignored otherwise.
	toggling of the TEMPTS key word. This	
	will cause the time series to subtract to	
	be read and then discarded.	
HandleMissingHow	Indicates how to handle missing data in a	IgnoreMissing
	time series, one of:	
	• IgnoreMissing – create a result	
	even if missing data are encountered	
	in one or more time series – this	
	option is not as rigorous as the others	
	SetMissingIfOtherMissing	
	- set the result missing if any of the	
	other time series values is missing	
	SetMissingIfAnyMissing - set the ground price of a growth and a set the ground price of a growth and a set the ground price of a growth and a set the ground price of a growth and a set the	
	set the result missing if any time	
	series value involved is missing	

A sample commands file is as follows:

```
# 0100501 - EMPIRE DITCH
0100501.DWR.DivTotal.Month~HydroBase
# 0100503 - RIVERSIDE CANAL
0100503.DWR.DivTotal.Month~HydroBase
subtract(TSID="0100501.DWR.DivTotal.Month",TSList="SpecifiedTS",
SubtractTSID="0100503.DWR.DivTotal.Month",HandleMissingHow=IgnoreMissing)
```