

# AdjustQMeanDailyDischarge

## AdjustQMeanDailyDischarge

### Input

- observedMeanDailyDischarge
- simulatedDischarge

### Coefficient set

- error tolerance
- maxNumberOfIterations

### Output

- adjustedSimulatedDischarge

### Description

This procedure corrects the simulated discharge with mean dialy discharge values until the error is within the specified error tolerance. To correct the simulated discharge, the mean dialy discharge for the simulated value will be calculated. The simulated values will then be corrected by applying the following formula.

$$Q_i = Q_i * QME/SQME \quad (1)$$

where *QME* is the observed MDQ

*SQME* is the simulated MDQ

*Q<sub>i</sub>* is the instantaneous discharge

The correction procedure will continue until all the simulated discharges are within the error tolerance or until the maximum number of iterations is reached. The maximum number of iterations is a configuration option.