**Adaptation of Sparrow Router for Deltashell**.

Non-base libraries: pandas, numpy, yaml, sqlite3

In the standalone version, inputs are read from a sqlite table "Segments" in a table "Sparrow.db". [Maybe the filename could be kept in a yaml file]. It is assumed that type affinities have been set (to avoid reading in general object types),[maybe that could be altered]. and that there are the following columns:

* SegmentID
* FromNode
* ToNode
* Length
* Flow [where does this come from?]
* SourceDirect [from other models]
* SourceGroundwater [from other models]
* SourcePoint [known external data source]

All rows in the table are considered to be part of the catchment (no masking).

These inputs are read into a pandas dataframe. Vectors are created for several (but not all) of these, with Vect appended to the variable name.

Additionally, some scalar parameters are input from a fixed file Parameters.yaml

Outputs are calculated internally as a vector LoadVect (which is in the same row order as the input data), which is then added to the Segments dataframe as column SegmentLoad.

The entire Segments table is the output to a table SegmentsNew in Sparrow.db (as an alternative, it could replace the original table, or new column could be joined into the table).

**Implementation of BMI interface**

Initialise

Run

Finalise