

Sources file format, version 1.0

The file is divided in two sections, header and data. The extension `.SRC` is highly recommended for files of this type.

```
$SourceFormat
1.0 file-type data-size
$EndSourceFormat
$Sources
number-of-sources
source-number type eid density
...
$EndSources
```

where

file-type **int** — is equal 0 for the ASCII file format.

data-size **int** — the size of the floating point numbers used in the file. Usually $data-size = \text{sizeof}(\text{double})$.

number-of-sources **int** — Number of sources defined in the file.

source-number **int** — is the number (index) of the n-th source. These numbers do not have to be given in a consecutive (or even an ordered) way. Each number has to be given only once, multiple definition are treated as inconsistency of the file and cause stopping the calculation.

type **int** — is type of the source. This variable is still unused.

eid **int** — is id-number of the element, where the source lies.

density **double** — is the density of the source, in volume of fluid per time unit. Positive values are sources, negative are sinks.

Comments concerning 1-2-3-FLOW:

- Every inconsistency or error in the `.SRC` file causes stopping the calculation. These are especially:
 - Multiple usage of the same *source-number*.

- Difference between *number-of-sources* and actual number of data lines.
- Reference to nonexistent element.