

Workflow Description:

Input Format:

Every line contains a agent/system expression, eg: $A = a.b.0 + b.c.d.A$

Output Format:

Open FST type representation of each agent (Separate files for each agent)

Eg: A0 A1 a

A1 A2 b

A2 A0 c

Steps:

1. We read input from the file, and feed it into the parser.
2. Parser breaks down the expressions and save it in structures and arrays (as denoted in Class Diagram)
3. Using these structures and arrays, we build a table corresponding to every agent, which illustrates the working of the FST.

Eg: A0 A1 A2

A0 null b c

A1 null null a

A2 null null null

4. We use these tables, to further build the system tables.
5. Then we use these tables to generate output corresponding to each table.
6. These outputs are written into file, and we use openFST type toolkits to convert it into a state machine.