

**Fig. Modified CoSiNE Diagram.**

The bold text box represents the newly added state variable and the arrows with red numbers denote the added source and sink processes.

The processes numbers correspond to the line numbers in the code file are as follows for your reference:

12: Line 818

34: Line 810 813 826

56: Line 948

78: Line 862, 863, 964, 967, 1015, 1020