## **User Manual: PODEM:**

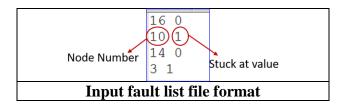
The program has been built using C++. The program can be run from Linux terminal.

## **README:**

- 1. Unzip the file *DST\_project\_Mohammad\_Adnaan*
- 2. The circuit files are kept in the following folder

```
DST project Mohammad Adnaan/PODEM/files
```

3. Edit the file input\_fault\_list\_podem.txt kept in this folder to give input fault list for which test vector will be generated.



4. Navigate to the **src** folder of **PODEM** . All source code files are kept here.

```
DST project Mohammad Adnaan/PODEM/src
```

- 5. Run command vi podem.cpp and press I in the keyboard to edit the main file in order to select the circuit file and mode parameters.
- 6. Set the desired circuit file.

```
#include <iostream>
#include <stdio.h>
#include <stdib.h>
#include <stdib.h>
#include <fstream>
#include <fstream>
#include <ststream>
#include <string>
#include <vector>

char file name[100]="../files/s349f 2.txt";
char fault_list_file[100]="../files/input_fault_list_podem.txt";

int main()
{

Node faultx;
   int result,i,j,total_input_faults,initial=0;

   Circuit_init circuit;
   circuit.input_calc(file_name);
   FILE *f=freopen(fault_list_file, "r",stdin);
   for(i=1;;i+t)
{
       scanf("%d",&faultx.node_number);
       scanf("%d",&faultx.value);
       if (feof(f)) break;
   }
   total_input_faults=i;
   fclose(f);
   Node* fault_list = (Node*)malloc(sizeof(Node) * total_input_faults);
```

7. After setting the circuit file name press escape in keyboard, type the command :wq and press enter to save the changes and exit the file.

- 8. In the terminal run the command make all
- 9. Run the following command to set execution permission for the program chmod +x podem
- 10. Finally run the following command to run the deductive simulator ./podem
- 11. Output results are saved in the file

  DST\_project\_Mohammad\_Adnaan/PODEM/files/generated\_tests.txt
- 12. The generated test vectors file format is as follows: