**Compilation, Input and Output All programs are stored at path:**

All programs and relevant files are stored at : /home/Students/s\_j167/unpv13e/NetworkProject

On the Linux server.

**Program ﬁles:**

1. CSP.c : This ﬁle contains c code for the simulation of a ’Communication Switch Process’.

2. SP.c: This ﬁle contains the c code for simulation of ’Station Processes’. This ﬁle needs to be executed multiple times with station number as parameter in each run. For its execution, the program reads the input ﬁles from.

3. fastether.h: This header file contains some common libraries used by both the programs and is included in both CSP.c and SP.c

**Input ﬁles:**

Following are the input ﬁles needed for successful execution of the program:

1. SP1.txt

2. SP2.txt

3. SP3.txt

4. SP4.txt

5. SP5.txt

6. SP6.txt

7. SP7.txt

8. SP8.txt

9. SP9.txt

10. SP10.txt

11.DataFile.txt

Here, each ﬁle is input for station process for respective number.

The DataFile.txt contains data to be sent to a client. This file is read by the program before data is send to the CSP.

**output ﬁles:**

Following are the output ﬁles generated after execution of program:

1. CSP\_OUTPUT.txt

2. SP\_OUTPUT.txt

Each ﬁle is output of the respective processes.

**Code Compilation**

**To compile the header file:**

$ cc fastether.h -o fastether

**To compile the code for communication bus process use following command:**

$ cc CSP.c -o CSP

**To compile the code for Station Process use:**

$ cc SP.c -o SP

**Executing the code:**

To execute the CSP code:

**./CSP <PORT NUMBER> &**

To execute the SP :

Open different consoles for different SP’s.

**./SP <server name> <port number> <station number> &**

NOTE: Number of stations can vary from 1-10, choose station numbers accordingly.