CO513 – Advanced Computer Communication Networks

Lab 2 – Quality of Service

Name: HERATH H.M.M.E.W.L.
REG. NO: E/15/123
SEMESTER: 08
DATE: 2021/02/21

Task:

I. Select one of the routers. Apply FIFO for packet scheduling. Produce graphs for the drop probability for different traffic classes in the same figure.

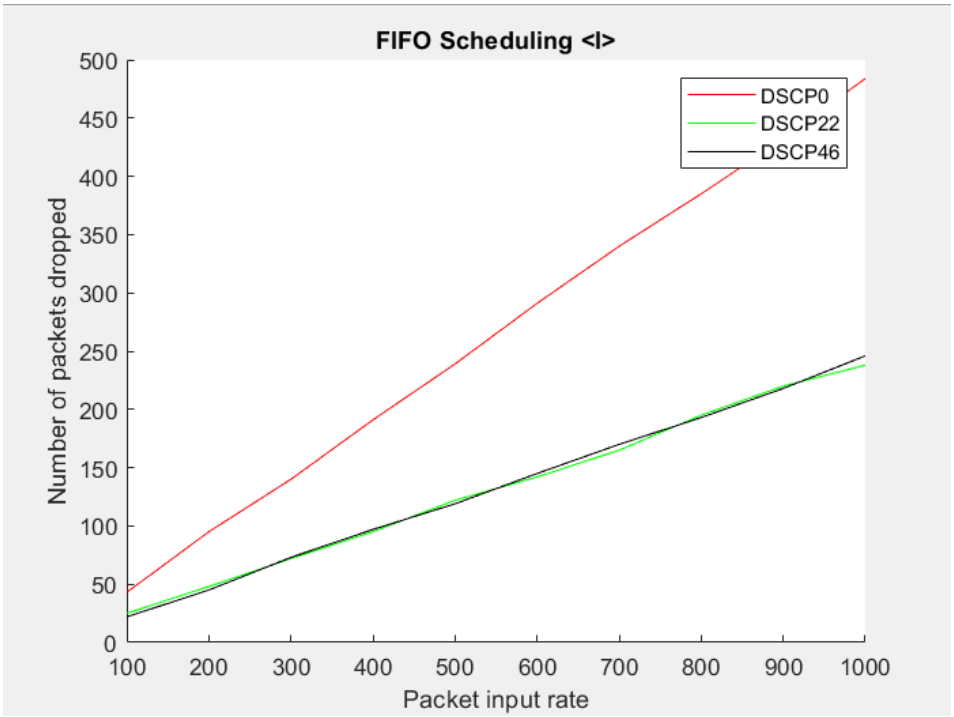

Fig:01

Here, DSCP22 and DSCP46 plots have little different values. For this scale it is not very clear.

In the program, the dropped packets statics are printed.

Assumed that the packet size is constant and considered as 1.

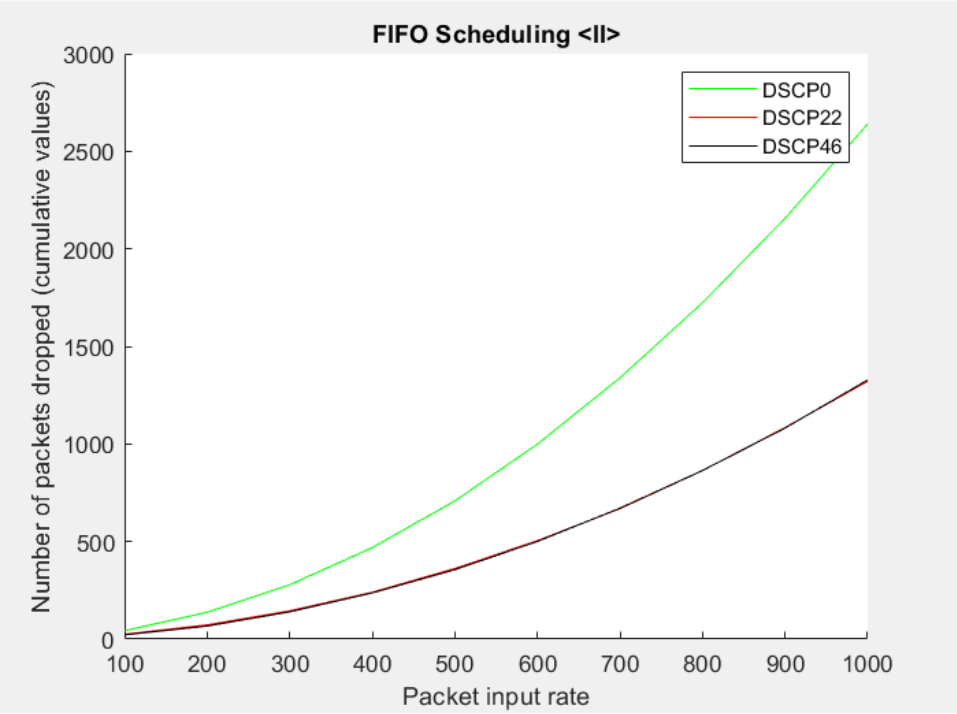

Fig:02

II. Now change the scheduling algorithm to Fair Queuing and obtain the same graph.

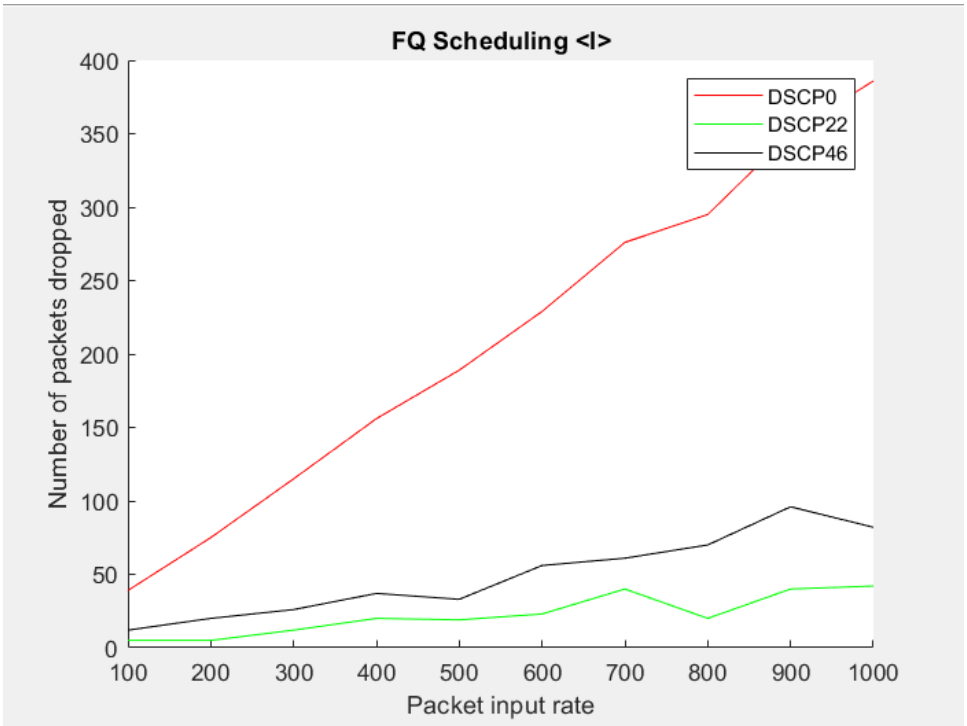

Fig:03

Used packet sizes are displayed below.

dscp0 packet size=6;

dscp22 packet size=4;

dscp46 packet size=5;

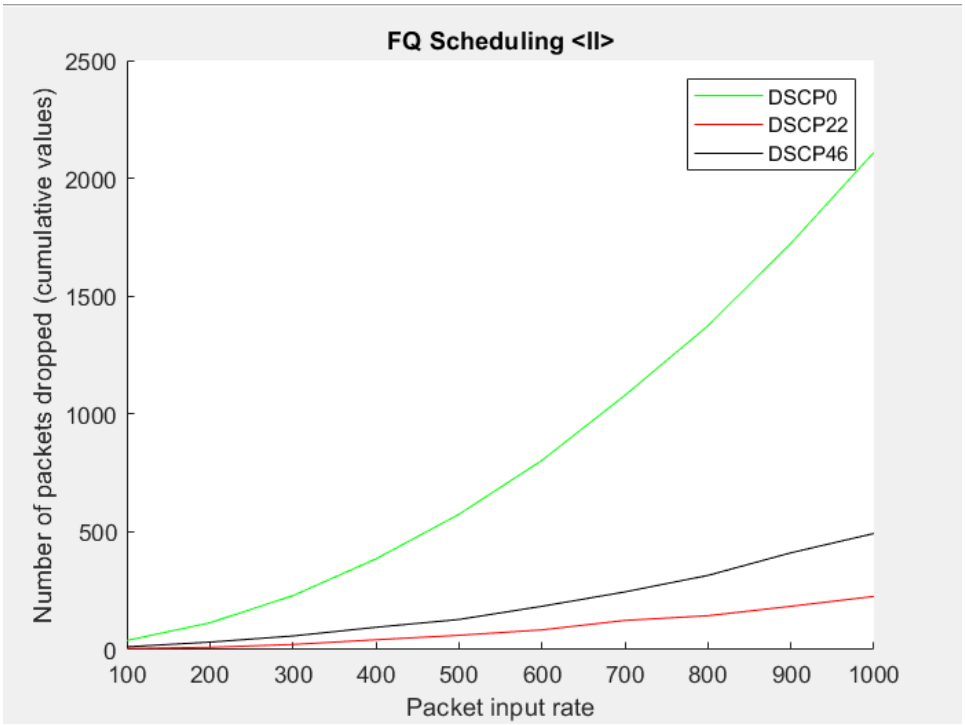

Fig:04

III. Finally, change the scheduling algorithm to WFQ and observe the drop probability against packet-in rate.

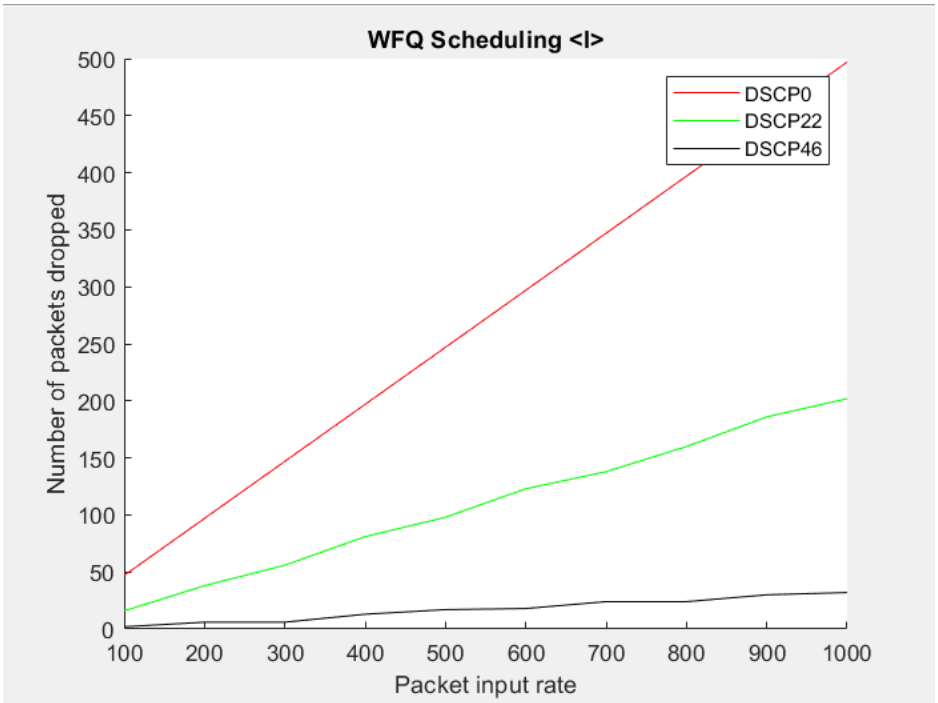

Fig:05

Assumed that the packet size is constant and considered as 12.

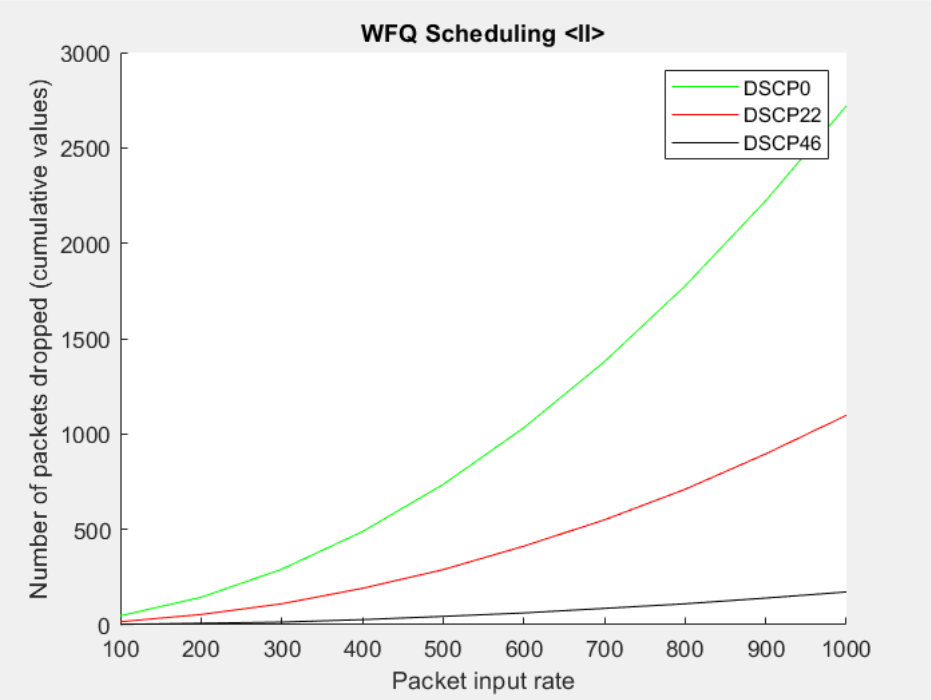

Fig:06