OPERATING SYSTEMS (PROJECT 1)

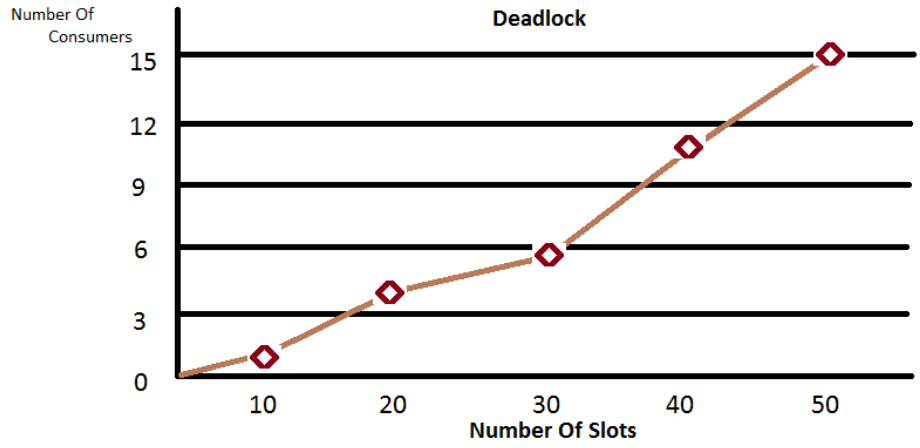
PRODUCER AND CONSUMER PROGRAM

HARIKRISHNAN_GOPALJANAKIRAMAN@STUDENT.UML.EDU

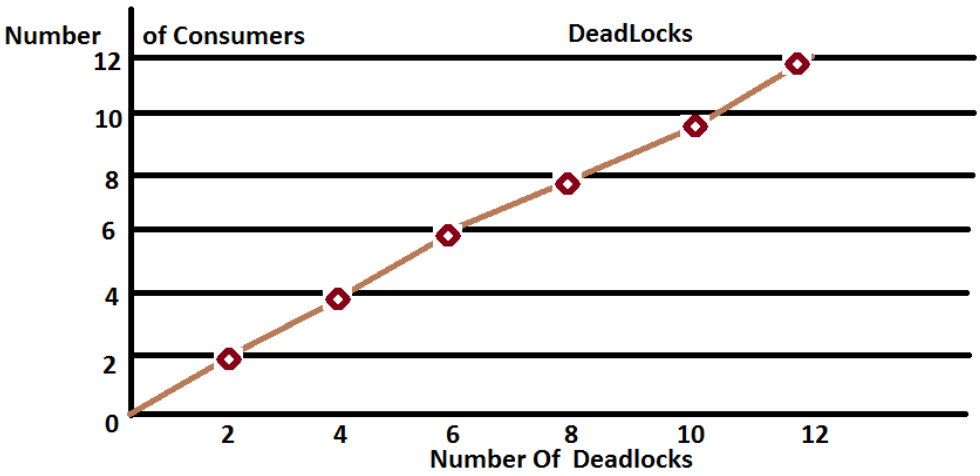
While executing the fully developed producer consumer program, on different operating system it shows different values in terms of deadlock. I developed results based upon my analysis on running the program in Unix system

On the Overall execution, about 80% got the desired results, but 20 % are failed due to unavailability of shared memory buffer. To overcome this failure, I used to modify the SEMKEY & SHMKEY values in donuts.h file.

While running test case with one producer and 5 consumer, to collect 10 dozen donuts using the different queue size from 0 to 50 slots. During this experiment, the deadlock increases with the increase in consumer even though the slots are increased.



On the Other test case, with the fixed queue size of 50, the number of deadlock increase with direct proportion to the number of consumers.



On the overall analysis, deadlock increases with the increase in the number of consumers.