
Assignment #2 – Keyboard Hit and Process Message Counter

(40 points) Part a) *Modify the Minix 2.0.4 kernel so that when a user press F9 key kernel prints a Hello World message. Do not use any other function key!*

Hint: Possible files you need to update are dmp.c, dmp_kernel.c and proto.h

(50 points) Part b) *Minix uses message passing paradigm to send and receive information among the processes for IPC purposes. Add code to the MINIX kernel to keep track of the number of messages sent from process i to process j . Print this matrix in a user-friendly format when the F9 key is hit.*

You need to find the proper C files for implementing the code.

Hints: */usr/src/kernel*

proc.c, glo.h, table.c, and other files from part a

(10 points) Documentation:

You need to provide a documentation for this assignment (a cover page, problem description, explanation of your solution steps, compile commands, location of updated files, etc.)

A group of up to 4 student is allowed.

Late submissions:

There will be 10 point penalty for each extra day.

Rules:

- Rar the changed files before you upload to MS Teams Platform.**
- Do not change the original filename**
- Rar file name will be your group id.**

Otherwise you will be penalized 5 points for each rule.