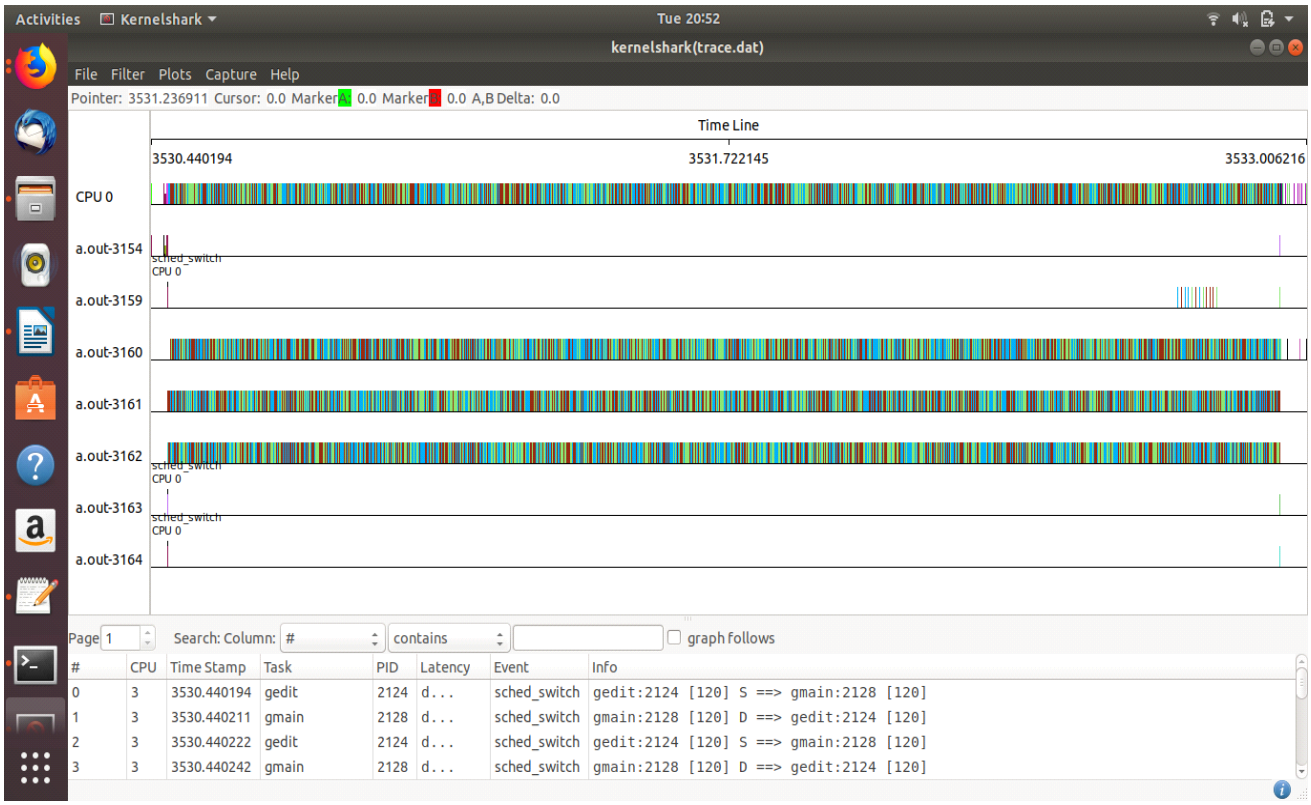
REPORT



The above screenshot is the KernelShark plot obtained using KernelShark and trace – cmd. This tool is mainly used for simulation of threads, providing information about the scheduling of periodic and aperiodic tasks and the scheduling algorithms used by the tasks, which is the FIFO – First In First Out. In our input file, we have three periodic and two aperiodic tasks which have different priorities. So, when the code is compiled, all the threads are created and activated simultaneously. The periodic tasks get executed and when the mouse event occurs, the aperiodic task gets executed. From the above screenshot, we can observe that CPU0's resources are being used. Th first thread is a main thread which is idle most of the time , because it's only work is to invoke the threads. The second thread is a mouse thread which detects the mouse events. The next three threads are of the periodic tasks which run infinitely till the execution time terminates. The aperiodic threads get activated when the mouse events occur.