ASSIGNMENT 2

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Course Title: Development of Real-Time System

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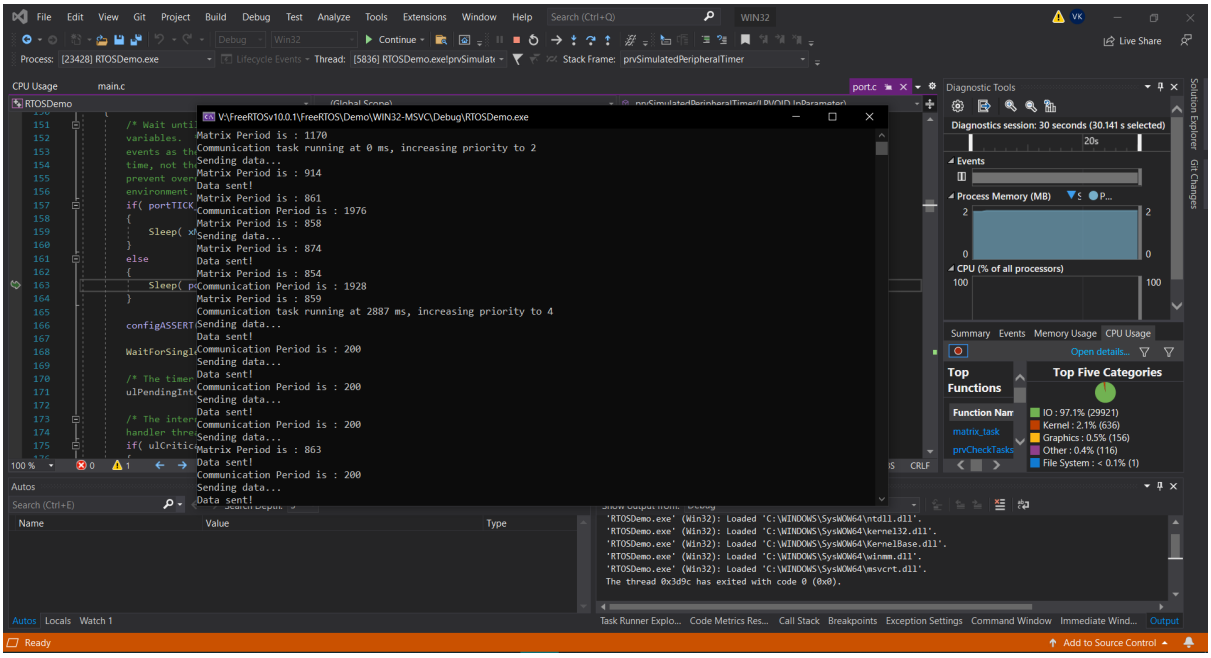
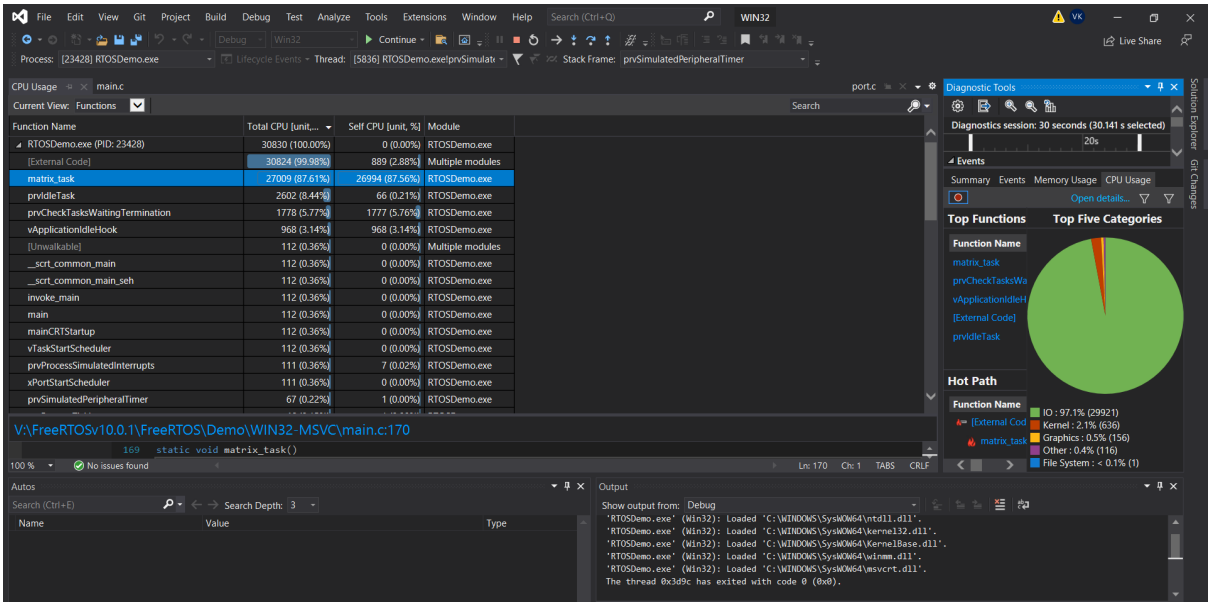
Output:



CPU usage by function matrix_task function



1)Why is "matrixtask" using most of the CPU utilization?

MatrixTask takes up more computational power compared to other tasks running. Also, the priority of matrixTask is higher.

2)Why must the priority of "communicationtask" increase in order for it to work properly?

The matrixTask blocks communicationtask from executing as it is computationally expensive and has higher priority.Hence, it will take a while for communicationtask to execute.So, it is necessary to increase the order of priority in order to pre-empt the matrixTask.

3)What happens to the completion time of "matrixtask" when the priority of "communicationtask" is increased?

There seems to be very little difference, which is expected as communicationtask consumes very little computational resources.

4)How many seconds is the period of "matrixtask"?

At the beginning of the task, the period of matrix task is noted to be 1.17s