WEEK 2 REPORT

• Why is "matrixtask" using most of the CPU utilization?

Because in this program, a matrix multiplication is more computationally expensive than any other task and it has bigger delays too.

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

Because with a lower priority than matrixtask, matrixtask can suspend it and cause big delays.

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

Completion time is about the same. I think it must be slightly bigger now, but it is innapreciable.

 How many seconds is the period of "matrixtask"? (Hint: look at vApplicationTickHook() to measure it)

Looking at the report the period is about 2150 ms.

(Screenshot in page 2)

```
Priority set to 2
2078:
        Sending data...
2177:
        Matrix done!
2177:
        MATRIX TASK TIME: 2175
4221:
        Data sent!
4321:
        Matrix done!
4321:
        MATRIX TASK TIME: 2144
6360:
        COMUNICATION TASK TIME: 4282
6360:
        Priority set to 4
6360:
        Sending data...
6460:
        Data sent!
6460:
        Matrix done!
6460:
        MATRIX TASK TIME: 2139
6560:
        COMUNICATION TASK TIME: 200
6560:
        Sending data...
6660:
        Data sent!
        COMUNICATION TASK TIME: 200
6760:
6760:
        Sending data...
6860:
        Data sent!
6960:
        COMUNICATION TASK TIME: 200
6960:
        Sending data...
7060:
        Data sent!
7160:
        COMUNICATION TASK TIME: 200
7160:
        Sending data...
7261:
       Data sent!
        COMUNICATION TASK TIME: 201
7361:
        Sending data...
7361:
7462:
       Data sent!
        COMUNICATION TASK TIME: 201
7562:
        Sending data...
7562:
7663:
       Data sent!
7763:
        COMUNICATION TASK TIME: 201
       Sending data...
7763:
7863:
        Data sent!
7963:
        COMUNICATION TASK TIME: 200
        Sending data...
7963:
8063:
       Data sent!
8163:
        COMUNICATION TASK TIME: 200
        Sending data...
8163:
        Data sent!
8263:
8363:
        COMUNICATION TASK TIME: 200
8363:
        Sending data...
8464:
        Data sent!
8564:
        COMUNICATION TASK TIME: 201
8564:
        Sending data...
8615:
        Matrix done!
8615:
        MATRIX TASK TIME: 2155
8665:
        Data sent!
```

COMUNICATION TASK TIME: 201

8765: