|  |  |  |
| --- | --- | --- |
| Date | Day | Schedule |
| Jan.18 | Wed | 1. Read paper and references 2. Figured the first step was to approximate the ICDF function and get pairs of coefficients |
| Jan.19 | Thur |
| Jan.20 | Fri |
| Jan.21 | Sat |
| Jan.22 | Sun | 1. Implemented the matlab code for approximation of ICDF function. 2. Not clear about segment scheme, so I tried firstly with uniform segmentation scheme |
| Jan.23 | Mon | 1. Implemented LZD with 6bit output 2. Implemented Mask |
| Jan.24 | Tue | 1. Went through paper again and calculates the limits of each segment referring [23] |
| Jan.25 | Wed | 1. Read reference[2], decided to use hierarchical segment method with outer segment of P2SR . |
| Jan.26 | Thur | 1. With the new segmentation, I divided the interval [0.5,1] into 5 segments. And calculated the coefficients 2. Referring [6], I transformed coefficients |
| Jan.27 | Fri | 1. Build the matlab model for the GNG 2. Simulate and modified coefficients till get the fair output and passed the kstest command |
| Jan.28 | Sat | 1. Build RTL for each part and simulated in ModelSim |
| Jan.29 | Sun | 1. Continued building ROM and learning how to use and simulate IP. |
| Jan.30 | Mon | 1. Giving up the idea of using altera IP due to the complicated way of compilation and simulation in ModelSim. And wrote my own adders.v, mult.v . 2. Finished the individual simulation for each part except for top level. |

Summary:

I am sorry about the unfinished project. I spent most of the day time on class and teaching assistant things during weekdays. Also I am not that familiar with the whole process.

But in the meantime I learnt a lot from this project. First of all, I need to read more paper and be clear about the architecture before I sat down to work on it. Second, I need to arrange a better schedule to work on each part.

I believe I will do better next time.

Thanks for the patience