

National Institute of Technology (NIT), Srinagar Department of Information Technology

Line Coding Assignment Report

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Language Used

• C++ 17

Libraries Used

- Sciplot
- Gnuplot

Assumptions

- All schemes are implemented using positive logic.
- Manchester encoding uses IEEE (802.3) convention.
- It is assumed that user will give binary data to the encoder.

Setup

- Install gnuplot
- sudo apt update
- sudo apt install gnuplot-x11
- Install sciplot
- git clone https://github.com/sciplot/sciplot --recursive
- cd sciplot
- mkdir build && cd build
- cmake ..
- sudo cmake --build . --target install
- Install adwaita theme (For WSL only)
- sudo apt install adwaita-icon-theme-full

Usage

- g++ -std=c++17 main.cpp -o main.out
- ./main.out