

# Documentation for enhancement of DVB-T2 system

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28th May, 2017

## 1 Work has been done

### 1.1

Apply multi-thread procedure to the following blocks: *BCH\_encoder*, *LDPC\_encoder*, *bit – interleaver* and *pilot – generator* with a boost based thread pool in `type.h` (gr-runtime).

### 1.2

Bound each multi-thread function handler to a fixed core number. In this way, the time for copying the required files to a random core in each multi-thread allocating round can be reduced.

## 2 Further work

We tried to merge all the blocks into one block, aiming at reducing the interface time between C++ and Python.

However, since we are not very familiar with the overall framework, we finally ran out of time but unfortunately didn't make it.