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About SIMULINK turbo code models

There are two turbo coders: punctured and unpunctured. Each needs the corresponding call-back function to run the coder. The call-back functions are ‘turbo\_code\_punc\_setup’ and ‘turbo\_code\_no\_punc\_setup’. A turbo code can be run multiple times with different Eb/No (dB). To obtain plots of the probability of bit errors, run the following MATLAB script file: ‘turbo\_code\_punc\_multiple\_run\_driver’ or ‘turbo\_code\_no\_punc\_multiple\_run\_driver’.

Running a turbo coder with a large interleaver size requires much RAM. If a model runs slowly, then try to reduce the size of the interleaver. Attached are two figures obtained by running the above two multiple\_run\_drivers.

Please let me know of any coding errors. Your kind notification would be greatly appreciated. I can be reached at [isa@bradley.edu](mailto:isa@bradley.edu).

Regards,

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