

Beginning of main function

Reset and initialize UART

Allocate memory for the WAV input data

Receive WAV input data via UART

Allocate memory for the PCM audio data

Allocate memory for the encoded MP2 audio data

Initialize TwoLAME

Check the WAV input data

Allocate memory for the MP2 output data

Beginning of loop

Read audio data samples from WAV input data

If there is any sample to read:

Run TwoLAME

Write MP2 output data

If not:

Exit from loop

End of loop

Run TwoLAME

Write MP2 output data

Shut down TwoLAME

Send MP2 output data via UART

Shut down UART

End of main function