Weekly Project Status Report

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Project: Design and Verification of Multi-Channel ADPCM CODEC

Project Overview
The class design project is to design a complex system design of a Multi-Channel Adaptive Differential Pulse Code Modulator and Demodulator (MCAC) compatible with G.726 & G.711 Specifications.

Work Completed
02/19/2014: The merge error caused due to file format change and my force push restricted everyone from pulling or pushing to the repository. The enc.c and dec.c was rectified to compile successfully by removing the duplicate upend to the file. The changes were pushed and the C model was all good again.
02/20/2014: The C model group was split into two groups while I was assigned to work on making the a-law work, me David and Jagan took initiative to work on the test vectors for u-law and a-law.
02/23/2014: Started working on the u-law test vectors, since the test files where in dos format the files were required to be converted to unix. Initially the normal input with init test vectors were analyzed. The checksum bits were stripped off and tried to pass the encoder without errors. Later the reset test vectors of the encoder was also made to pass. The chk file was modified to replace the anci test vectors with itu test vectors.
02/24/2014: The testing of the decoder with its modified test vectors were passed for normal input and reset mode.

Work Awaiting Completion
02/27/2014: Testing of the system with u-law for all test vectors for different input and bit-rate.
02/28/2014: Work on the C model to get identical test results for a-law and u-law.

Complications
Fixing merge issues. Understanding the complications of doing force push.