Laboratory 6

*Simulation of an ADPCM System*

Under Demo Systems of BDE of SPW, obtain and save G721 32KADPCM. Apply your speech input *mary* and put in your own sink file. Simulate it for 5000 samples and compare input and outputs.

**A. Analysis**

1. The object is to go through the whole system and determine exactly what the individual blocks do. You have a choice of using mu-law or A-law and a choice of outputs at 24kbs, 32kbs and 40 kbs. Choose one companding law and choose one bit rate, and make sure that is consistent throughout the encoder and decoder.

**B. Hand-In**

1. Outputs at the different rates.
2. A simple description of all the blocks.