Real-time video streaming server, decoder/player for GPRS cell phones

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Video Streaming with 2.5G

With the recent advances in video compression technology and mobile network, real-time video streaming is now possible even on cell phones.

This project aims to build a real-time video streaming system for 2.5G mobile phones. The video decoder is developed for Nokia Series 60 platform. Users can connect to the streaming server set up on their PCs through GPRS channel to watch a video on their mobile phones anywhere.
H.263 Video Codec

H.263 Video Codec is used to compress the video before streaming. As the H.263 is designed for video services at low bit rates, video can be played smoothly even through the GPRS channel.

The figure on the right shows the typical steps of encoding and decoding a video.
RESULTS

Up to 9 frames per second