Subject: MediaPlayer is out
Posted by koldo on Fri, 24 Dec 2010 07:57:02 GMT
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Hello all

Finally it is there . Please follow installing instructions. They are very simple but have to be strictly followed.

It includes MediaPlayer control and a demo. It has been more tested in Windows. A problem in Linux is that ffmpeg Ubuntu packages are very old, and all my efforts to compile from sources have failed.

It uses SDL (SDLCtrl) and ffmpeg:
- SDL gives fast YUV video and audio playing.
- ffmpeg gives audio and video decoding and encoding.

So in summary for playing:
- ffmpeg opens the file (.avi, .mp3, ...)
- ffmpeg reads the codified data and converts it in uncompressed images and audio chunks.
- SDL displays the images and plays the audio fluently.

It uses at least 5 threads... plus the main:
- basic data chunks (called packets) retrieval
- audio decoding
- video decoding
- subtitles decoding
- audio playing

Please try it and give all the feedback. Be as clear as possible, as the threads interaction is not easy.

The next immediate steps from now are:
- Solve problems
- Add RGB video playing to do video processing
- Reduce number of threads... specially video decoding thread has to be removed (it has been the source of many problems)

Other improvements are:
- Add video and audio encoding   (to generate new files, .avi. mp3, ...)
- Remove SDL dependencies...:
--- Mirek: To see how to do fast image rendering
--- Honza and Mirek: To play audio with PortAudio

If anybody has any special need, just s/he has to describe it .