Application for Google Summer of Code 2008:
Advanced CD Ripping Support for Amarok (and more)
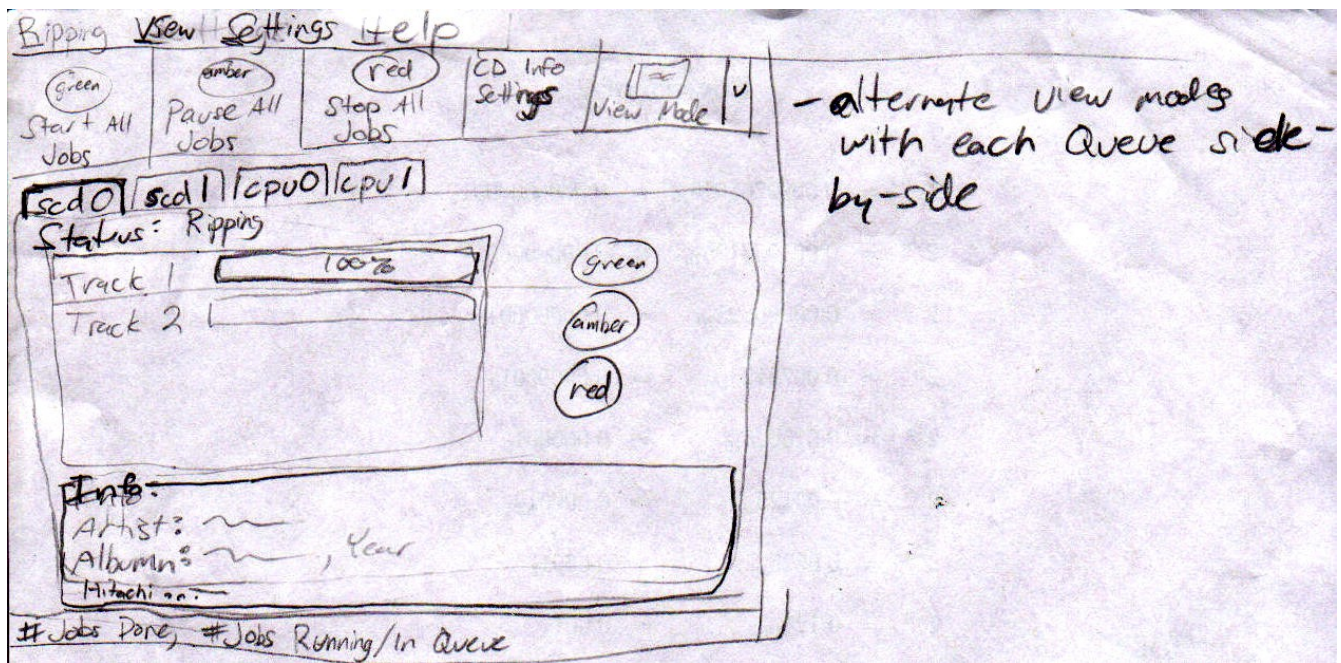Jordan Klassen

Abstract

There are currently very few GUI CD ripping solutions for linux, and many of them may not be suitable for the average user. I plan to implement, as a Kpart, an efficient batch CD ripper that can be run with tight integration with Amarok, or as an independant application.

Project

I will first develop a standalone CD Ripper, with a batch-mode centered ui design (mockup below). Features will include:

- simultaneous CD ripping – all CD trays can be used simultaneously; a new CD can be inserted once the current CD has been ripped (no need to wait for encoding to finish)

- batch-centered – allow ripping as fast as possible so the user can spend a minimal amount of time waiting for the computer to finish

- cddaparanoia backend

- automatic cd info retrieval via cddb or MusicBrainz

- supports common audio formats

- standard cd ripper features

- D-Bus interface

- (maybe) EAC/RubyRipper-like hash checking

- Windows and (if cdparanoia can be ported) Mac support

Second, I will tightly integrate it with Amarok, allowing it to run silently in the background, create playlists and insert new tracks directly into the collection database. It will be accessed using the Tools menu of Amarok; also, the user should be able to start listening to the entire cd after it has been encoded.

Ripping View Settings Help

(green) Start All Jobs (amber) Pause All Jobs (red) Stop All Jobs CD Info Settings View Mode v

— alternate view modes with each Queue side-by-side

scd0 scd1 cpu0 cpu1

Status: Ripping

Track 1 [100%]
Track 2 [ ]

(green)
(amber)
(red)

Info:
Artist: ~
Album: ~ , Year
Hitachi ...

#Jobs Done, #Jobs Running/In Queue

Timeline/Roadmap

- Now to May 25 – Aquaint myself with KDE4 libs, cddaparanoia (and how to integrate it), techniques used by other rippers, etc.

- May 26 to July 7 – Develop Kpart / independant Application

- July 8 to August 11 – Integrate with Amarok, port to Windows, (maybe) port to Mac

- August 11 to 18 – Cleanup code, etc.

About Me

I am a student at Simon Fraser University living in Vancouver, Canada. I have used Linux since installing Xubuntu on my family's old Pentium 2 in 2005, something which required a steep learning curve. I also later discovered KDE and Amarok, which has left me disappointed with Windows and iTunes since. I started programming in Java in 2002 (13 years old), and have dabbled in a couple other languages, including C++, since. I became interested in the idea of this project since my High School Math Teacher asked me to set up his old computer as what he defined as a "music server" or jukebox. However, there were

very few open source solutions to efficiently convert his large cd collection to flac or another lossless format. Thus, I came up with a couple of ideas for designing and programming a CD ripper. However, I have not started on any of my ideas since I've always been sidetracked with life. I would really love to work on this for GSoC and will probably still work on this, albiet with a much slower development cycle.