PLACEHOLDER FOR ABSTRACT

Mirex 2009 Audio Music Similarity Submission
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package contents:

./README.txt - this document
./gdsams.py - python script that serves as the principal entry
   point for running task
./bin/fftExtract - statically linked executable for feature extraction
./bin/audioDB - statically linked executable for query and retrieval
   of extracted features

Note that the included executables are compiled and statically linked for
x86_64 intel based linux, which is what I was lead to believe would be the
most useful. If some other architecture is desired, let me know and I can
try to provide different binaries, or just give you the source, though
audioDB has some nontrivial dependancies...

Runtime instructions:

This submission is intended as 4 different workflows which can all be run
via the same python script.

Here are the four calls:

$python gdsams.py -n numThreads -l 16 -f "-m 10" -b listOfMediaFiles
pathToWriteDir/mfcc10_beats resultsFile_mfcc10_beats.txt

$python gdsams.py -n numThreads -l 16 -f "-c 12" -b listOfMediaFiles
pathToWriteDir/chr12_beats resultsFile_chr12_beats.txt

$python gdsams.py -n numThreads -l 25 -f "-m 10 -s 100" listOfMediaFiles
pathToWriteDir/mfcc10_100 resultFile_mfcc10_100.txt

$python gdsams.py -n numThreads -l 20 -f "-c 12 -s 250" listOfMediaFiles
pathToWriteDir/chr12_250 resultFile_chr12_250.txt

where:
  numThreads - an int providing the amount of parrellel
  features to extract
  listOfMediaFiles - the list of input media files, one per line
pathToWriteDir - path to the writable scratch directory
resultsFile_*.txt - the result file name

Notes:
you can add the '-v' flag if you'd like more output, though there is already a fair bit. Please ensure that the specified subdirectories are used under the pathToWriteDir or some silent failures may arise. This python script was written and tested in python v2.6, though I don't think there's anything in it that would prevent it from being run in python v2.5.

Thanks very much and if you have an questions shoot me an email.