

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.