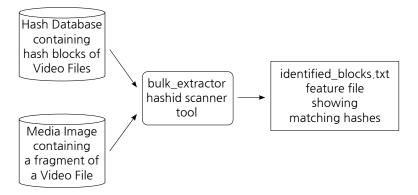
Use a Hash Database to Find Part of a Video File in a Media Image

Workflow:



Scan a Media Image for parts of a Video file.

Setup: Download the files required for this example:

- Hash Database containing hash blocks of Video Files: www.digitalcorpora.org/downloads/hashdb/examples/db_of_video_hashes
- Media Image containing a fragment of a Video File: www.digitalcorpora.org/downloads/hashdb/examples/media_image_with_fragment
- bulk_extractor built with the hashdb hashid scanner: www.digitalcorpora.org/downloads/hashdb/bulk_extractor-1.4.1-windowsinstaller.exe

Steps:

- 1. Install the two .exe files.
- 2. Run bulk_extractor built with the hashdb hashid scanner:

```
$ bulk_extractor -o outdir -S db_of_video_hashes \
  media_image_with_fragment
```

3. View the feature file using an editor or *bulk_extractor Viewer*. For example type vi outdir/identifie An example match looks like this:

```
102400 a2929e2d838b88973b4c4f3d7a96c6d9 1
```

Seeing hash a 2929e2d... at Forensic path 102400 shows that something matched our database, but what? We find the file that contains this hash using a source lookup using this workflow:



Figure 1: Look up the file that has the hash.

Steps:

1. Run the *hashdb* tool to obtain the lookup:

```
$ hashdb get_hash_source outdir/identified_blocks.txt \
identified_sources.txt
```

Now we view file identified_sources.txt to see features containing source information, like this one:

```
102400 a2929e2d838b88973b4c4f3d7a96c6d9 repository \ incriminating_video.mpg 8120000
```

indicating that the block was from file incriminating_video.mpg. specifically, the block at forensic path 102400 came from the block that is 8120000 bytes into video file incriminating_video.mp