bldd

Backward List Dynamic Dependencies Script

Tools Used

- python3

- [LIEF : Library to Instrument Executable Formats](#)

Usage

```
$ python3 bldd.py -husage: bldd.py [-h] -d D [--json]This script will traverse through all the files in the specified directory and print the dynamic libraries used by ELF executables
options:  -h, --help  show this help message and exit
  -d D       Directory to traverse through
  --json     Output the report in JSON format
```

Script Output

The scripts output the findings in the command line, while also giving the option generating a json file with the findings.

- Script output:

```
moze@Kirby:~/Documents/AdvancedLinux/Userspace$ python3 bldd.py --json -d /bin/
Report on dynamic used libraries by ELF executables on /bin/

==========I386(x86)==========

==========X86_64==========

libpoppler.so.118 (13 files)
==============================Files==============================

  -> /bin/pdfimages
  -> /bin/pdftoppm
  -> /bin/pdfseparate
  -> /bin/pdftops
  -> /bin/pdfattach
  -> /bin/pdfdetach
  -> /bin/pdfinfo
  -> /bin/pdftohtml
  -> /bin/pdffonts
  -> /bin/pdftotext
  -> /bin/pdftocairo
  -> /bin/pdfsig
  -> /bin/pdfunite
============================================================

libstdc++.so.6 (284 files)
==============================Files==============================

  -> /bin/pdfimages
  -> /bin/qml
  -> /bin/clang-cpp-14
  -> /bin/llvm-objcopy-14
  -> /bin/llvm-ml-14
```

- Json findings:

```
{} bldd_report.json > {} architectures > {} X86_64 > {} libstdc++.so.6 > [ ] files
  1  {
  2      "architectures": {
  3          "X86": {},
  4          "X86_64": {
  5              "libpoppler.so.118": {
  6                  "file_count": 13,
  7                  "files": [
  8                      "/bin/pdfimages",
  9                      "/bin/pdftoppm",
 10                      "/bin/pdfseparate",
 11                      "/bin/pdftops",
 12                      "/bin/pdfattach",
 13                      "/bin/pdfdetach",
 14                      "/bin/pdfinfo",
 15                      "/bin/pdftohtml",
 16                      "/bin/pdffonts",
 17                      "/bin/pdftotext",
 18                      "/bin/pdftocairo",
 19                      "/bin/pdfsig",
 20                      "/bin/pdfunite"
 21                  ]
 22              },
 23              "libstdc++.so.6": {
 24                  "file_count": 284,
 25                  "files": [
 26                      "/bin/pdfimages",
 27                      "/bin/qml",
 28                      "/bin/clang-cpp-14",
 29                      "/bin/llvm-objcopy-14",
```