

Binary converter

There is a tool in DSX python library called elf2blob. It uses objcopy to repack an elf image to a blob.

It is useful for concatenating different sections to a single image.

It supports:

- Any binutils-supported target for input
- Binary blob, Intel-HEX, and MIF output

Usage

If you have your python path correctly set up (See [DsxInstall](#)), you can call `python -m bintools.elf2blob`.

```
$ python -m bintools.elf2blob --help
Usage: elf2blob.py [options]

Options:
  -h, --help                show this help message and exit
  -c OBJCOPY, --objcopy=OBJCOPY
                           Use given objcopy
  -s SECTIONS, --section=SECTIONS
                           Add section:byte_offset to output file
  -O OUT_FMT, --output-format=OUT_FMT
                           Output file type (binary, hex or mif)
  -o OUTPUT, --output=OUTPUT
                           Output file name
  -w WIDTH, --width=WIDTH
                           MIF word width
  -S SIZE, --size=SIZE     Blob size (bytes)
$
```

-s

May be given more than once to add many sections

Example

Let's create a blob:

- to initialize an 8-KiB altera ram (MIF output), in file named `sram.mif`,
- from a mips binary named `kernel-soclib-mips32el.out`,
- with:
 - ◆ `.boot` at 0
 - ◆ `.except` at 0x20
 - ◆ `.text` at 0x1400

```
$ python -m bintools.elf2blob \
  -c mipsel-unknown-elf-objcopy \
  -s .boot:0 -s .except:0x20 -s .text:0x1400 \
  -O mif -o sram.mif \
  kernel-soclib-mips32el.out
$
```