

Arm semihosting

This folder contain a toolchain file and a couple of examples for building OpenCV based applications that can run in an Arm semihosting setup.

OpenCV can be compiled to target a semihosting platform as follows:

```
cmake ../opencv/ \
  -DCMAKE_TOOLCHAIN_FILE=../opencv/platforms/semihosting/aarch64-semihosting.toolchain.cmake
  -DSEMIHOSTING_TOOLCHAIN_PATH=/path/to/baremetal-toolchain/bin/ \
  -DBUILD_EXAMPLES=ON -GNinja
```

A barematel toolchain for targeting aarch64 semihosting can be found here, under `aarch64-none-elf`.

The code of the examples in the `norm` and `histogram` folders can be executed with qemu in Linux userspace:

```
qemu-aarch64 ./bin/example_semihosting_histogram
qemu-aarch64 ./bin/example_semihosting_norm
```