Custom HAL samples

Samples in this folder are intended to demonstrate functionality replacement mechanism in the OpenCV library.

The **c_hal** is the example of pure C replacement library with all functions returning error. It can be used to verify error handling in the function switching code.

The **slow_hal** contains naive C++ implementations of the element-wise logical array operations (and, or, xor, not) making them twice slower than the default.

Build custom HAL replacement library

- 1. Create folder for build (for example <home-dir>/my-hal-build)
- 2. Go to the created folder and run cmake: cmake <opency-src>/samples/hal/slow_hal
- 3. Run make

After build you will find static library in the build folder: libslow_hal.a

Build OpenCV with HAL replacement

- 1. Create folder for build (for example <home-dir>/my-opencv-build)
- Go to the created folder and run cmake: cmake \ -DOpenCV_HAL_DIR="<home-dir>/my-hal-bu. \ <opency-src>
 Run make (or make opency_perf_core to build the demonstration test
- 3. Run make (or make opency_perf_core to build the demonstration test executable only)
- 4. After build you can run the tests and verify that some functions works slower: ./bin/opencv_perf_core --gtest_filter=*bitwise_and*