Building OpenCV from Source for Windows Embedded Compact (WINCE/WEC)

Requirements

CMake 3.1.0 or higher Windows Embedded Compact SDK

Configuring

To configure CMake for Windows Embedded, specify Visual Studio 2013 as generator and the name of your installed SDV.

```
cmake -G "Visual Studio 12 2013" -A "MySDK WEC2013" -
DCMAKE TOOLCHAIN FILE:FILEPATH=../platforms/wince/arm-wince.toolchain.cmake
```

If you are building for a headless WINCE, specify -DBUILD_HEADLESS=ON when configuring. This will remove the commctrl.lib dependency.

If you are building for anything else than WINCE800, you need to specify that in the configuration step. Example:

```
-DCMAKE_SYSTEM_VERSION=7.0 -DCMAKE_GENERATOR_TOOLSET=CE700 -
DCMAKE_SYSTEM_PROCESSOR=arm-v4
```

For headless WEC2013, this configuration may not be limited to but is known to work:

```
-DBUILD EXAMPLES=OFF
-DBUILD opency apps=OFF `
-DBUILD opency calib3d=OFF
-DBUILD opencv highgui=OFF `
-DBUILD opencv_features2d=OFF
-DBUILD opency flann=OFF
-DBUILD opency ml=OFF `
-DBUILD opencv objdetect=OFF `
-DBUILD opency photo=OFF
-DBUILD opency shape=OFF
-DBUILD opencv stitching=OFF `
-DBUILD opency superres=OFF
-DBUILD opency ts=OFF
-DBUILD opencv video=OFF `
-DBUILD opency videoio=OFF
-DBUILD opency videostab=OFF `
-DBUILD opency dnn=OFF `
-DBUILD opency java=OFF `
-DBUILD_opencv_python2=OFF `
-DBUILD opencv python3=OFF `
-DBUILD opency java bindings generator=OFF `
-DBUILD_opencv_python_bindings_generator=OFF `
-DBUILD TIFF=OFF
-DCV TRACE=OFF
-DWITH OPENCL=OFF `
```

```
-DHAVE_OPENCL=OFF `
-DWITH_QT=OFF `
-DWITH_GTK=OFF `
-DWITH_QUIRC=OFF `
-DWITH_JASPER=OFF `
-DWITH_WEBP=OFF `
-DWITH_PROTOBUF=OFF `
-DBUILD_SHARED_LIBS=OFF `
-DWITH_OPENEXR=OFF `
-DWITH_TIFF=OFF `
```

Configuring to build as shared

Building OpenCV as shared libraries is as easy as appending

```
-DBUILD_ZLIB=ON `
-DBUILD_ZLIB=ON
```

to the build configuration.

Building

You are required to build using Unicode: cmake --build . -- /p:CharacterSet=Unicode