





















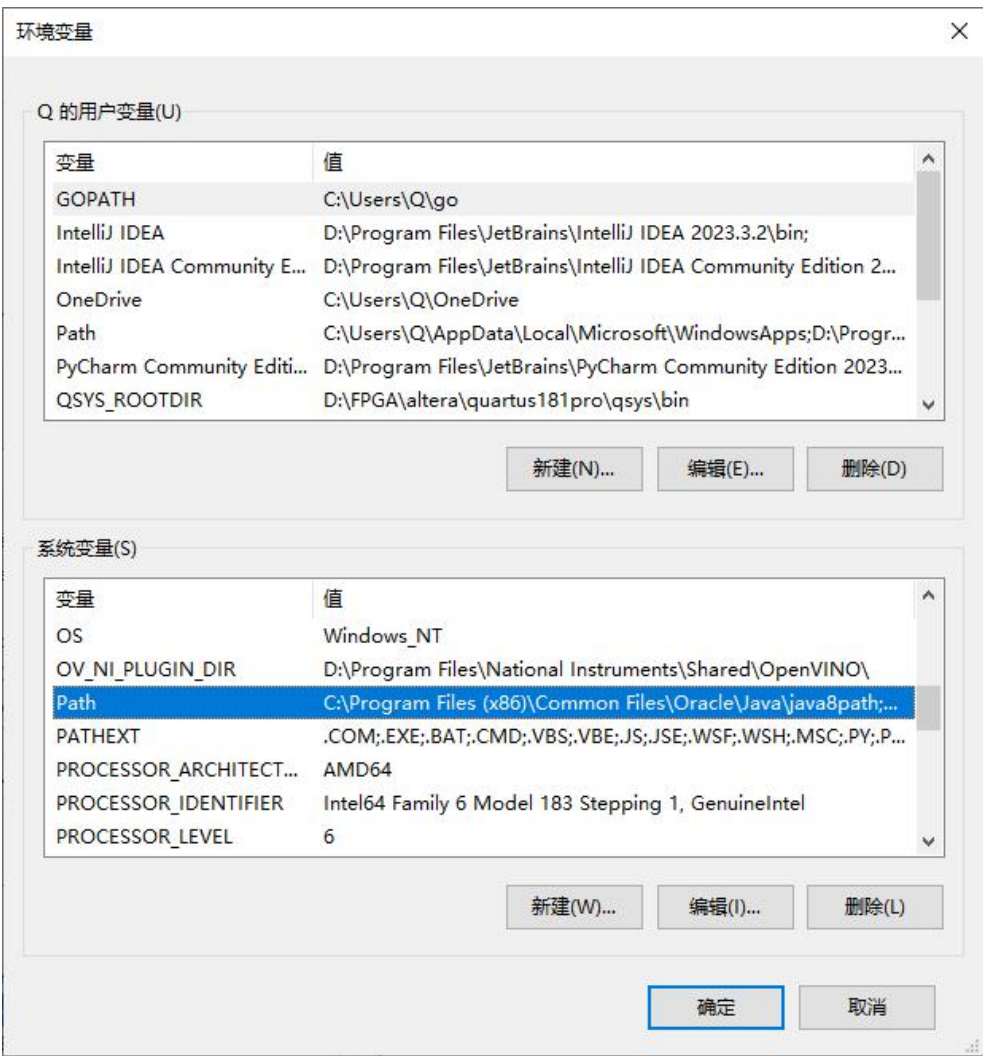


1. 下载 MinGW 并解压到某一目录: <https://github.com/nixman/mingw-builds-binaries/releases>

 i686-15.2.0-release-mcf-dwarf-ucrt-rt_v13-rev0.7z	sha256:3a7de8f3e0e8a206b...		95.9 MB	last week
 i686-15.2.0-release-posix-dwarf-msvcrt-rt_v13-rev0.7z	sha256:52315cbcc65ab01eb...		95.9 MB	last week
 i686-15.2.0-release-posix-dwarf-ucrt-rt_v13-rev0.7z	sha256:8559c1e27c48f1394...		95.8 MB	last week
 i686-15.2.0-release-win32-dwarf-msvcrt-rt_v13-rev0.7z	sha256:672b7dadb1b276640...		95.9 MB	last week
 i686-15.2.0-release-win32-dwarf-ucrt-rt_v13-rev0.7z	sha256:22046362802c0a03a...		95.9 MB	last week
 x86_64-15.2.0-release-mcf-seh-ucrt-rt_v13-rev0.7z	sha256:07cbd8e9931053afc...		95.3 MB	last week
 x86_64-15.2.0-release-posix-seh-msvcrt-rt_v13-rev0.7z	sha256:9953edc0b80a25d1c...		95.2 MB	last week
 x86_64-15.2.0-release-posix-seh-ucrt-rt_v13-rev0.7z	sha256:05b3361a3a3e20a57...		95 MB	last week
 x86_64-15.2.0-release-win32-seh-msvcrt-rt_v13-rev0.7z	sha256:3e09304bd489f7822...		95.4 MB	last week
 x86_64-15.2.0-release-win32-seh-ucrt-rt_v13-rev0.7z	sha256:9e9f0b912a59d2cfb...		95.3 MB	last week
 Source code (zip)				last week
 Source code (tar.gz)				last week

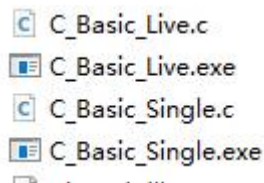
2. 在系统环境变量中添加刚才的目录



3.添加完成后打开终端，输入 `gcc -v`，若有输出则说明环境安装正确

```
D:\Workspace\Demo\Go_Demo\Go_Basic>gcc -v
Using built-in specs.
COLLECT_GCC=gcc
COLLECT_LTO_WRAPPER=D:\Program Files\MinGW_15.2.0\mingw64\bin\..\libexec\
Target: x86_64-w64-mingw32
Configured with: ../../src/gcc-15.2.0/configure --host=x86_64-w64-mingw
w64-mingw32 --prefix=/mingw64 --with-sysroot=/c/buildroot/x86_64-1520-win
-shared --disable-multilib --enable-languages=c,c++,fortran,lto --enable-l
ble-libstdcxx-threads=yes --enable-libgomp --enable-libatomic --enable-lto
--enable-mingw-wildcard --enable-fully-dynamic-string --enable-version-spec
m-ts=yes --disable-libssp --disable-libstdcxx-pch --disable-libstdcxx-debu
-win32-registry --disable-nls --disable-werror --disable-symvers --with-gr
une=core2 --with-libiconv --with-system-zlib --with-gmp=/c/buildroot/prere
=/c/buildroot/prerequisites/x86_64-w64-mingw32-static --with-mpc=/c/buildr
with-isl=/c/buildroot/prerequisites/x86_64-w64-mingw32-static --with-pkgve
uilds project' --with-bugurl=https://github.com/nixman/mingw-builds LD_FOR
crt-rt_v13-rev0/mingw64/bin/ld.exe --with-boot-ldflags=' -pipe -fno-ident -
v13-rev0/mingw64/opt/lib -L/c/buildroot/prerequisites/x86_64-zlib-static/1
gw32-static/lib -Wl,--disable-dynamicbase -static-libstdc++ -static-libg
Thread model: win32
Supported LTO compression algorithms: zlib
gcc version 15.2.0 (x86_64-win32-seh-rev0, Built by MinGW-Builds project)
```

4.在终端上进入 Demo 程序所在文件夹,通过 `gcc C_Basic_Single.c -o -l. -L. -lqhyccd_c_wrapper` 编译单帧模式测试程序,通过 `gcc C_Basic_Live.c -o -l. -L. -lqhyccd_c_wrapper` 编译连续模式测试程序。



```
D:\Workspace\Demo\Go_Demo\Go_Basic_Single.exe
Operation timed out or was aborted
Operation timed out or was aborted
C_InitQHYCCDResource() ret = 0
C_ScanQHYCCD() num = 1
C_GetQHYCCDId() ret = 0 id = QHY268M-31c44548beeff4680
C_OpenQHYCCD() handle = 0x2b727af8270
C_GetQHYCCDReadModeNumber() ret = 0 modeNum = 7
C_GetQHYCCDReadModeName() ret = 0 modeName = PhotoGraphic DSO
C_SetQHYCCDReadMode() read mode 0 ret = 0
C_SetQHYCCDStreamMode() stream mode 0 ret = 0
C_InitQHYCCD() ret = 0
C_SetQHYCCDDebayerOnOff() debayer false ret = 0
C_SetQHYCCDParam_Bits() 16 bits ret = 0
C_GetQHYCCDChipInfo() ret = 0 chipw = 23.612800mm chiph = 15.829600mm imagew
xelh = 3.760000um bpp = 16
C_SetQHYCCDBinMode() bin 1x1 ret = 0
C_SetQHYCCDResolution() resolution 0 x 6280 ret = 4210
C_SetQHYCCDParam_Exposure() exposure 50ms ret = 0
C_SetQHYCCDParam_Gain() gain 50 ret = 0
C_SetQHYCCDParam_Offset() offset 50 ret = 0
C_ExpQHYCCDSingleFrame() ret = 0
C_GetQHYCCDSingleFrame() ret = 0 w = 6280 h = 4210 bpp = 16 channels = 1
C_CancelQHYCCDExposingAndReadout() ret = 0
C_CloseQHYCCD() ret = 0
C_ReleaseQHYCCDResource() ret = 0
```