

## 86 获取主机信息

### 86.1 创建项目

通过QtCreator, 在C:\Users\Minwei\Projects\Qt路径下, 创建名为HostInfo的控制台 (Console) 项目, 并在项目文件中添加第2行:

```
1  QT -= gui
2  QT += network
3
4  CONFIG += c++11 console
5  CONFIG -= app_bundle
6
7  # The following define makes your compiler emit warnings if you use
8  # any Qt feature that has been marked deprecated (the exact warnings
9  # depend on your compiler). Please consult the documentation of the
10 # deprecated API in order to know how to port your code away from it.
11 DEFINES += QT_DEPRECATED_WARNINGS
12
13 # You can also make your code fail to compile if it uses deprecated APIs.
14 # In order to do so, uncomment the following line.
15 # You can also select to disable deprecated APIs only up to a certain
   version of Qt.
16 #DEFINES += QT_DISABLE_DEPRECATED_BEFORE=0x060000    # disables all the APIs
   deprecated before Qt 6.0.0
17
18 SOURCES += \
19     main.cpp
20
21 # Default rules for deployment.
22 qnx: target.path = /tmp/${TARGET}/bin
23 else: unix:!android: target.path = /opt/${TARGET}/bin
24 !isEmpty(target.path): INSTALLS += target
```

### 86.2 实现功能

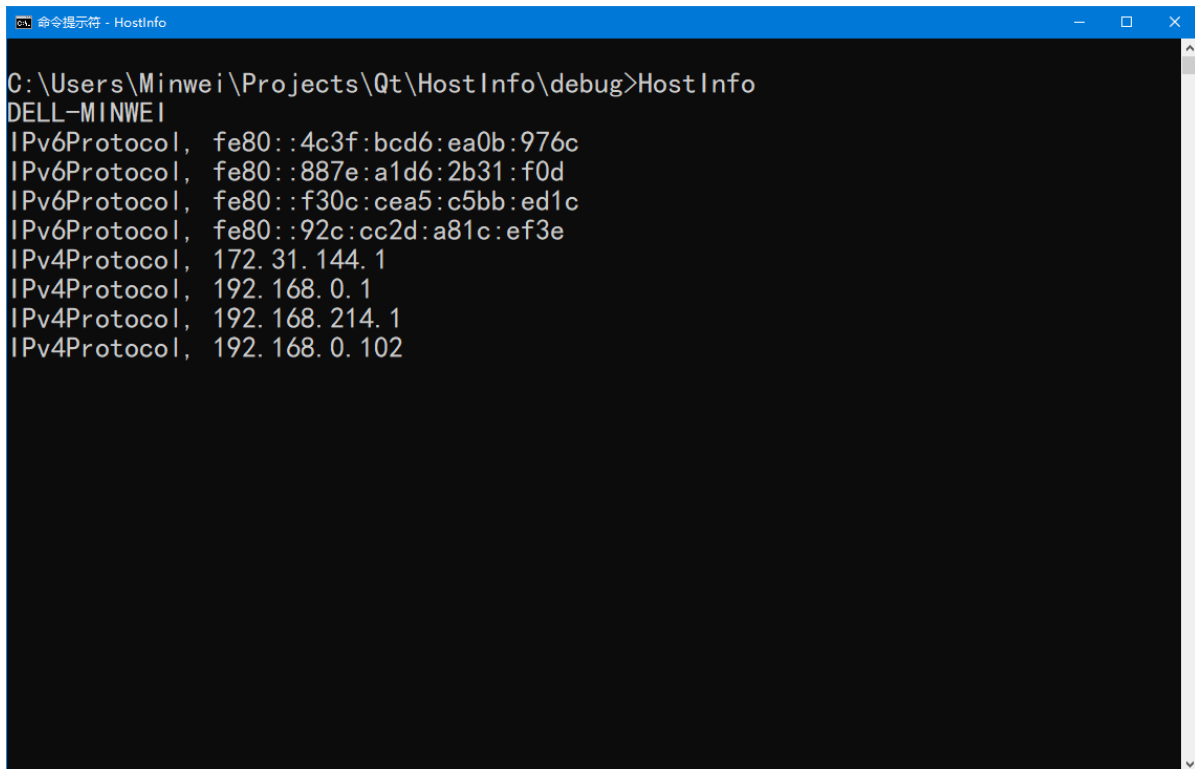
C:\Users\Minwei\Projects\Qt\HostInfo\main.cpp:

```
1  #include <iostream>
2  using namespace std;
3
4  #include <QCoreApplication>
5  #include <QHostInfo>
6  #include <QMetaEnum>
7
8  int main(int argc, char *argv[])
9  {
10     QCoreApplication a(argc, argv);
11
12     QString hostName = QHostInfo::localHostName();
13     cout << hostName.toStdString() << endl;
14
15     for (QHostAddress address : QHostInfo::fromName(hostName).addresses())
```

```
16     cout << QMetaEnum::fromType<  
17         QAbstractSocket::NetworkLayerProtocol>().valueToKey(  
18         address.protocol()) << ", " <<  
19         address.toString().toString() << endl;  
20  
21     return a.exec();  
22 }
```

## 86.3 测试验证

运行效果如图所示：



```
C:\Users\Minwei\Projects\Qt\HostInfo\debug>HostInfo  
DELL-MINWEI  
IPv6Protocol, fe80::4c3f:bcd6:ea0b:976c  
IPv6Protocol, fe80::887e:a1d6:2b31:f0d  
IPv6Protocol, fe80::f30c:cea5:c5bb:ed1c  
IPv6Protocol, fe80::92c:cc2d:a81c:ef3e  
IPv4Protocol, 172.31.144.1  
IPv4Protocol, 192.168.0.1  
IPv4Protocol, 192.168.214.1  
IPv4Protocol, 192.168.0.102
```