# 以下示例使用 [RegQueryInfoKey](https://learn.microsoft.com/zh-cn/windows/desktop/api/Winreg/nf-winreg-regqueryinfokeya)、 [RegEnumKeyEx](https://learn.microsoft.com/zh-cn/windows/desktop/api/Winreg/nf-winreg-regenumkeyexa) 和 [RegEnumValue](https://learn.microsoft.com/zh-cn/windows/desktop/api/Winreg/nf-winreg-regenumvaluea) 函数枚举指定键的子项。

传递给每个函数的 hKey 参数是打开键的句柄。 此键必须在函数调用之前打开，之后必须关闭。

C++

// QueryKey - Enumerates the subkeys of key and its associated values.

// hKey - Key whose subkeys and values are to be enumerated.

#include <windows.h>

#include <stdio.h>

#include <tchar.h>

#define MAX\_KEY\_LENGTH 255

#define MAX\_VALUE\_NAME 16383

void QueryKey(HKEY hKey)

{

TCHAR achKey[MAX\_KEY\_LENGTH]; // buffer for subkey name

DWORD cbName = 0; // size of name string

TCHAR achClass[MAX\_PATH] = TEXT(""); // buffer for class name

DWORD cchClassName = MAX\_PATH; // size of class string

DWORD cSubKeys = 0; // number of subkeys

DWORD cbMaxSubKey = 0; // longest subkey size

DWORD cchMaxClass = 0; // longest class string

DWORD cValues = 0; // number of values for key

DWORD cchMaxValue = 0; // longest value name

DWORD cbMaxValueData = 0; // longest value data

DWORD cbSecurityDescriptor = 0; // size of security descriptor

FILETIME ftLastWriteTime; // last write time

DWORD i = 0, j = 0, retCode = 0;

TCHAR achValue[MAX\_VALUE\_NAME] = {'\0'};

DWORD cchValue = MAX\_VALUE\_NAME;

// Get the class name and the value count.

retCode = ::RegQueryInfoKey(

hKey, // key handle

achClass, // buffer for class name

&cchClassName, // size of class string

NULL, // reserved

&cSubKeys, // number of subkeys

&cbMaxSubKey, // longest subkey size

&cchMaxClass, // longest class string

&cValues, // number of values for this key

&cchMaxValue, // longest value name

&cbMaxValueData, // longest value data

&cbSecurityDescriptor, // security descriptor

&ftLastWriteTime); // last write time

// Enumerate the subkeys, until RegEnumKeyEx fails.

if (cSubKeys)

{

printf("\nNumber of subkeys: %d\n", cSubKeys);

for (i = 0; i < cSubKeys; i++)

{

cbName = MAX\_KEY\_LENGTH;

retCode = ::RegEnumKeyEx(hKey, i,

achKey,

&cbName,

NULL,

NULL,

NULL,

&ftLastWriteTime);

if (retCode == ERROR\_SUCCESS)

{

\_tprintf(TEXT("(%d) %s\n"), i + 1, achKey);

}

}

}

// Enumerate the key values.

if (cValues)

{

printf("\nNumber of values: %d\n", cValues);

for (i = 0; i < cValues; i++)

{

cchValue = MAX\_VALUE\_NAME;

achValue[0] = '\0';

retCode = ::RegEnumValue(hKey, i,

achValue,

&cchValue,

NULL,

NULL,

NULL,

NULL);

if (retCode == ERROR\_SUCCESS)

{

\_tprintf(TEXT("(%d) %s\n"), i + 1, achValue);

}

}

}

}

int \_\_cdecl \_tmain()

{

HKEY hTestKey = 0;

if (::RegOpenKeyEx(HKEY\_CURRENT\_USER,

TEXT("SOFTWARE\\Microsoft"),

0,

KEY\_READ,

&hTestKey) == ERROR\_SUCCESS

)

{

QueryKey(hTestKey);

}

::RegCloseKey(hTestKey);

return 0;

}

# 扩展:

## 可用MFC对话框程序重写这个程序