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Subject: Re: What next?

Posted by [omari](#) on Thu, 19 May 2016 15:17:31 GMT

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Hi,

I think, we can find all MSCxx installation paths, by enumeration of registry subkeys and values.

please, test the function below, and let us know if it success or fail to detect your.

on my win7 64, it show:

SDK found:

C:\Program Files (x86)\Windows Kits\10

C:\Program Files (x86)\Microsoft SDKs\Windows\v7.1A

C:\Program Files (x86)\Windows Kits\8.0

C:\Program Files (x86)\Microsoft SDKs\Windows\v8.0A

C:\Program Files (x86)\Windows Kits\8.1

C:\Program Files (x86)\Microsoft SDKs\Windows\v8.1A

Visual Studio found:

C:\Program Files (x86)\Microsoft Visual Studio 12.0\

C:\Program Files (x86)\Microsoft Visual Studio 12.0\

C:\Program Files (x86)\Microsoft Visual Studio 14.0\

the code:

```
#include <Core/Core.h>
```

```
using namespace Upp;
```

```
Vector<String> GetWinRegSubKeys(String reg_path, HKEY base_key =  
HKEY_LOCAL_MACHINE)
```

```
{  
    HKEY key = 0;  
    DWORD dwSize = 0;  
    DWORD count; // subkeys
```

```
    Vector<String> v;
```

```
    if(RegOpenKeyEx(base_key, reg_path, 0, KEY_READ, &key) != ERROR_SUCCESS)
```

```
        return v;
```

```
    StringBuffer buf(2048);
```

```
    RegQueryInfoKey(key, NULL, NULL, NULL, &count, NULL, NULL, NULL, NULL, NULL, NULL);
```

```

for(int i=0; i< count; i++){
    dwSize = 2048;
    RegEnumKeyEx(key,i,buf,&dwSize,NULL,NULL,NULL,NULL);
    v.Add( String(buf.Begin(), dwSize)) ;
}

RegCloseKey(key);
return v;
}

Vector<String> GetWinRegValues(String reg_path, HKEY base_key = HKEY_LOCAL_MACHINE)
{
    HKEY key = 0;
    DWORD dwSize = 0;
    DWORD count; // subkeys

    Vector<String> v;

    if(RegOpenKeyEx(base_key, reg_path, 0, KEY_READ, &key) != ERROR_SUCCESS)
        return v;
    StringBuffer buf(2048);

    RegQueryInfoKey(key,NULL,NULL,NULL,NULL,NULL,NULL, &count,NULL,NULL,NULL,NULL);

    for(int i=0; i< count; i++){
        dwSize = 2048;
        RegEnumValue(key, i, buf, &dwSize, NULL, NULL, NULL, NULL);
        v.Add( String(buf.Begin(), dwSize)) ;
    }

    RegCloseKey(key);
    return v;
}

String NormalizePathNN(const String& path)
{
    return IsNull(path) ? path : NormalizePath(path);
}

void FindMSC()
{
    Vector<String> v = GetWinRegSubKeys("SOFTWARE\\Microsoft\\Microsoft SDKs\\Windows",
    HKEY_LOCAL_MACHINE);

    if(v.GetCount())
        LOG("SDK found:");
    else
        LOG("no SDK found");
}

```

```
for(int i = 0; i < v.GetCount(); i++)
{
    LOG(NormalizePathNN(GetWinRegString("InstallationFolder",
        "SOFTWARE\\Microsoft\\Microsoft SDKs\\Windows\\" + v[i],
        HKEY_LOCAL_MACHINE)));
}
```

```
v = GetWinRegValues("SOFTWARE\\Microsoft\\VisualStudio\\SxS\\VS7",
HKEY_LOCAL_MACHINE);
```

```
if(v.GetCount())
    LOG("Visual Studio found:");
else
    LOG("No Visual Studio found");
for(int i = 0; i < v.GetCount(); i++)
{
    LOG(GetWinRegString(v[i], "SOFTWARE\\Microsoft\\VisualStudio\\SxS\\VS7",
HKEY_LOCAL_MACHINE));
}
}
```

```
CONSOLE_APP_MAIN
```

```
{
    FindMSC();
}
```