

KBSW191008 Win32 - Get the battery percentage and power status

This document introduces the demo project of "go_power_status", including how to get the battery percentage and power status.

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IDE Preperation

- **Software**
 - Visual Studio 2010 SP1
 - Slamware Windows SDK:[Slamware Windows SDK](#)
 - RoboStudio(for map display):[Robostudio installer](#)
 - Sample Code:



Higher version of Visual Studio will cause errors. Sometime you will need to upgrade SP1 package to make your VS compatable with .Net Framework.

- **Hardware**

Either one of following

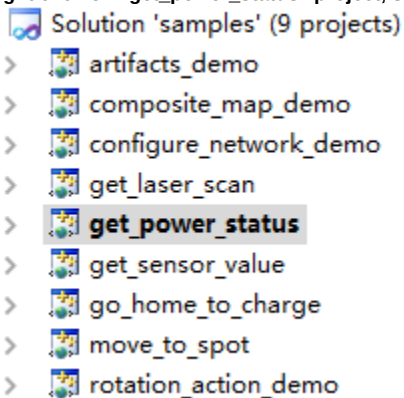
- Slamware SDP mini
 - Slamware SDP
 - Slamware Kit
 - Zeus/Apollo robot base
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Download

[Win32-Demo](#)

Compiling

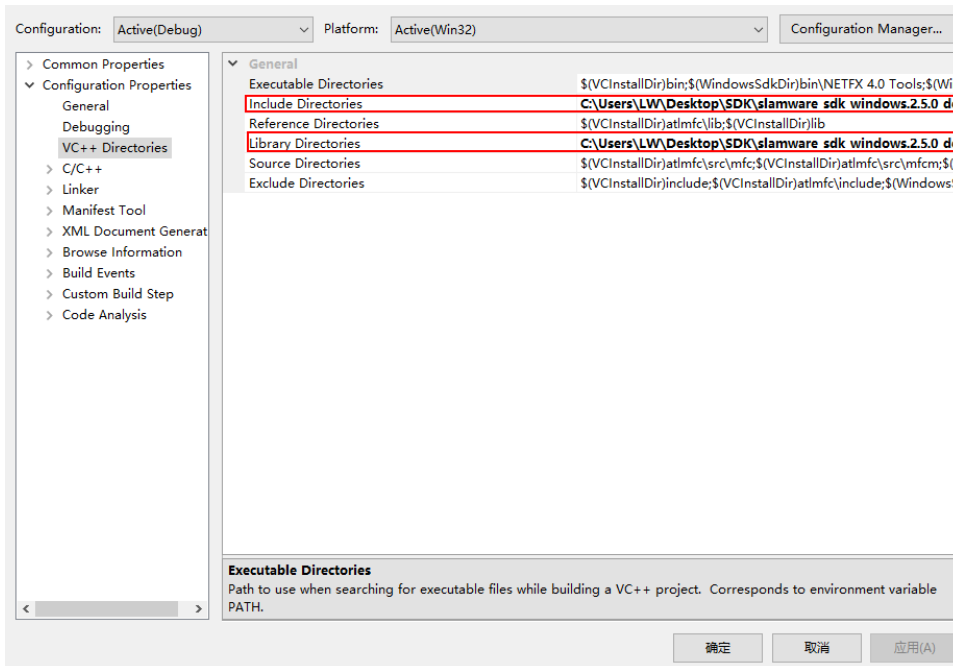
1. Right click on "get_power_status" project, set as StartUp project.



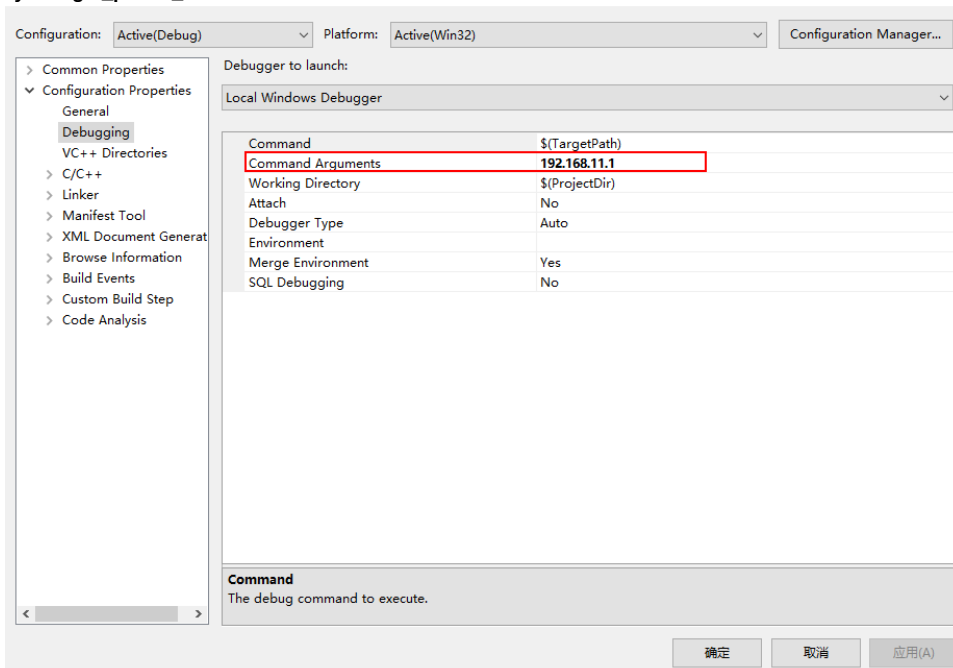
2. Right click on "get_power_status", then " Properties"configure "include" and "lib" directories to the corresponding folder path of Slamware SDK.



It's not necessary to copy files to the project directory, user will only need to configure the path of SDK.



3. Right click on " get_power_status ", then "properties"set "Command Arguments" as follows:
Syntax get_power_status <IP address>>



4. Click " F5" to execute.

5. The output from console will be as follows

```
PS C:\Users\LW\Desktop\SDK\samples\samples\Debug> .\get_power_status.exe 192.168.11.1
Connecting SDP @ 192.168.11.1...
SDK Version: 2.5.0_dev
SDP Version: 2.6.0_dev-sdp_vre-20171219
Battery Percentage: 85
is Charging: 0
is DC connected: 0
Docking status: Not on dock
```

Code

- Get battery percentage and power status

Get the battery percentage and power status

```
SlamwareCorePlatform sdp = SlamwareCorePlatform::connect(argv[1], 1445);
std::cout << "SDK Version: " << sdp.getSDKVersion() << std::endl;
std::cout << "SDP Version: " << sdp.getSDPVersion() << std::endl;

PowerStatus status = sdp.getPowerStatus();
std::cout << "Battery Percentage: " << status.batteryPercentage << std::endl;
std::cout << "is Charging: " << status.isCharging << std::endl;
std::cout << "is DC connected: " << status.isDCConnected << std::endl;

if(status.dockingStatus == DockingStatusNotOnDock)
    std::cout << "Docking status: Not on dock" << std::endl;
else if(status.dockingStatus == DockingStatusOnDock)
    std::cout << "Docking status: On dock" << std::endl;
else
    std::cout << "Docking status: Unknown" << std::endl;
```