

KBSW180128 Win32-

Speed regulation, setssystemparameter()

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- - Visual Studio 2010 SP1
 - Slamware Windows SDK:[Slamware Windows SDK](#)
 - RoboStudio():[Robostudio installer](#)
 - Sample Code:



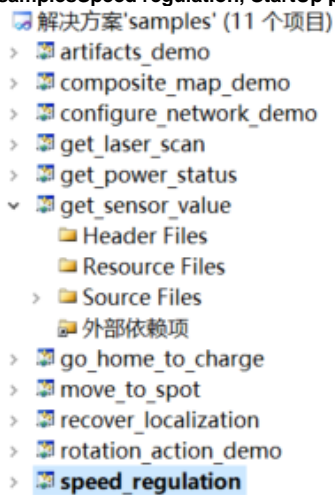
Visual Studio

Visual Studio 2010SP1.Net FrameworkSP1

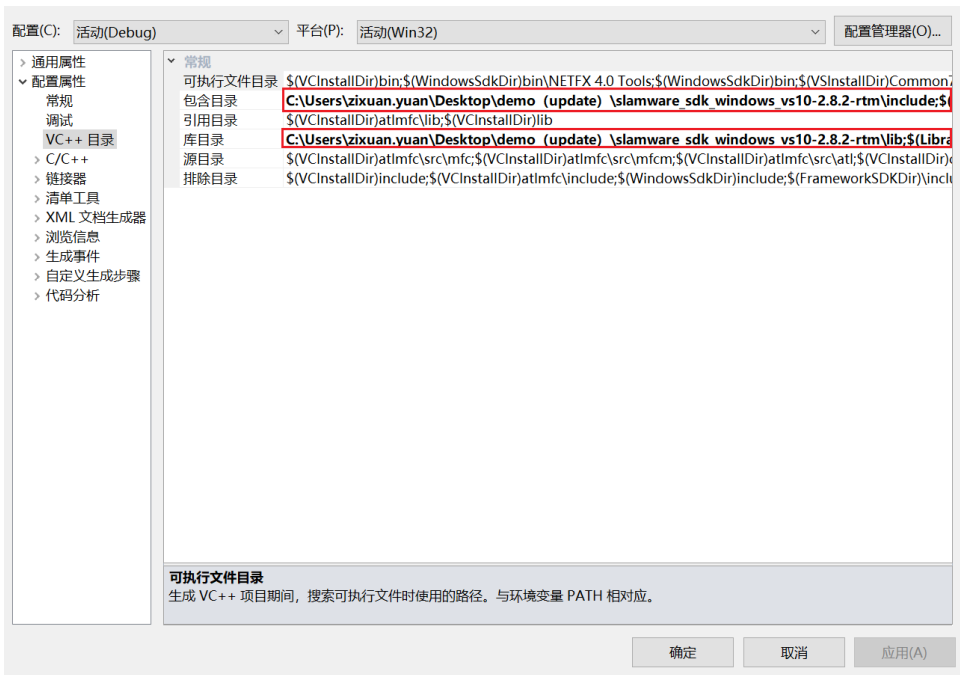
- - Slamware SDP mini
 - Slamware Slamware
 - Apollo/Ares/Athena

Win32-

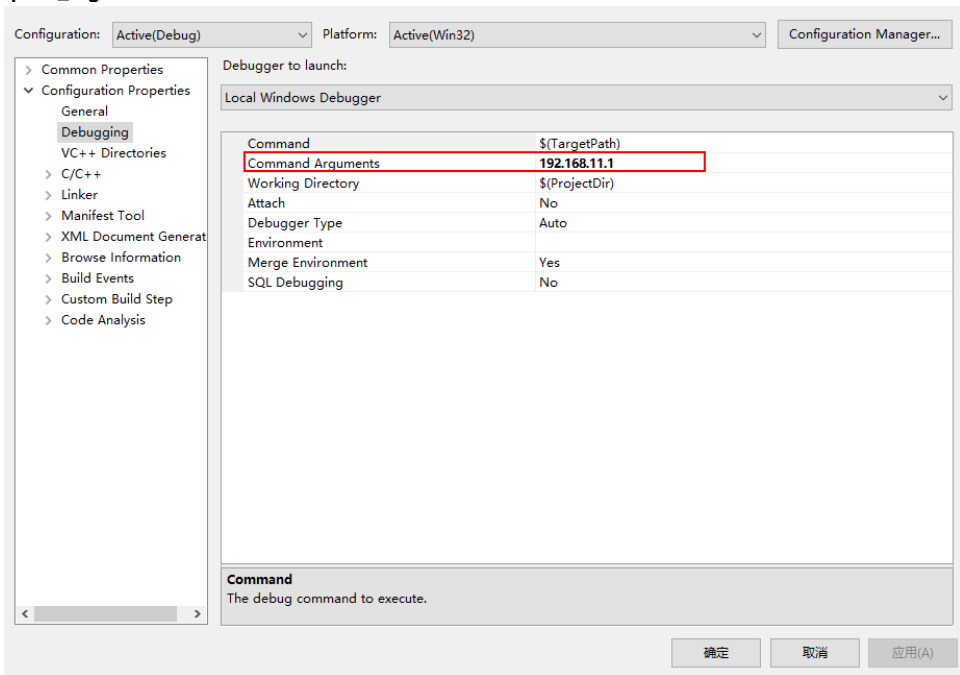
1. samplesSpeed regulation, StartUp project



2. speed_regulation, Slamware SDK includelib



3. **speed_regulation, Debuggingcommand Arguments 192.168.11.1**
speed_regulation <IP address>



4. **F5**
5. **Robostudio**

```

        SlamwareCorePlatform sdp = SlamwareCorePlatform::connect(ip_address, 1445);
std::cout <<"SDK Version: " << sdp.getSDKVersion() << std::endl;
std::cout <<"SDP Version: " << sdp.getSDPVersion() << std::endl;
rpos::actions::MoveAction action = sdp.getCurrentAction();

rpos::core::Location location1(1,0);
rpos::core::Location location2(-1,0);
rpos::core::Location location3(-1,2);
rpos::core::Location location4(1,2);
while (true)
{
    if (action)
        action.cancel();

    action = sdp.moveTo(location1, false,true);
    if (action.getStatus() == rpos::core::ActionStatusError)
        std::cout << "Action Failed: " << action.getReason() << std::endl;
    bool bRet2 =sdp.setSystemParameter(SYSPARAM_ROBOT_SPEED,
SYSVAL_ROBOT_SPEED_HIGH);
    std::cout <<"Robot is moving to: (" << location1.x() <<" , "<<location1.y()
<<" ) on speed"<< " HIGH" << std::endl;
    action.waitUntilDone();

    action = sdp.moveTo(location2, false,true);
    if (action.getStatus() == rpos::core::ActionStatusError)
        std::cout << "Action Failed: " << action.getReason() << std::endl;
    bool bRet3 =sdp.setSystemParameter(SYSPARAM_ROBOT_SPEED,
SYSVAL_ROBOT_SPEED_LOW);
    std::cout <<"Robot is moving to: (" << location2.x() <<" , "<<location2.y()
<<" ) on speed"<< " LOW" << std::endl;
    action.waitUntilDone();

    action = sdp.moveTo(location3, false,true);
    if (action.getStatus() == rpos::core::ActionStatusError)
        std::cout << "Action Failed: " << action.getReason() << std::endl;
    bool bRet1 =sdp.setSystemParameter(SYSPARAM_ROBOT_SPEED,
SYSVAL_ROBOT_SPEED_MEDIUM);
    std::cout <<"Robot is moving to: (" << location3.x() <<" , "<<location3.y()
<<" ) on speed"<< " MEDIUM" << std::endl;
    action.waitUntilDone();

    action = sdp.moveTo(location4, false,true);
    if (action.getStatus() == rpos::core::ActionStatusError)
        std::cout << "Action Failed: " << action.getReason() << std::endl;
    bool bRet1 =sdp.setSystemParameter(SYSPARAM_ROBOT_SPEED, "0.3m/s");
    std::cout <<"Robot is moving to: (" << location4.x() <<" , "<<location4.y()
<<" ) on speed"<< " 0.3m/s" << std::endl; action.waitUntilDone();
}

```