

USING GAMESTUDIO IN VISUAL STUDIO

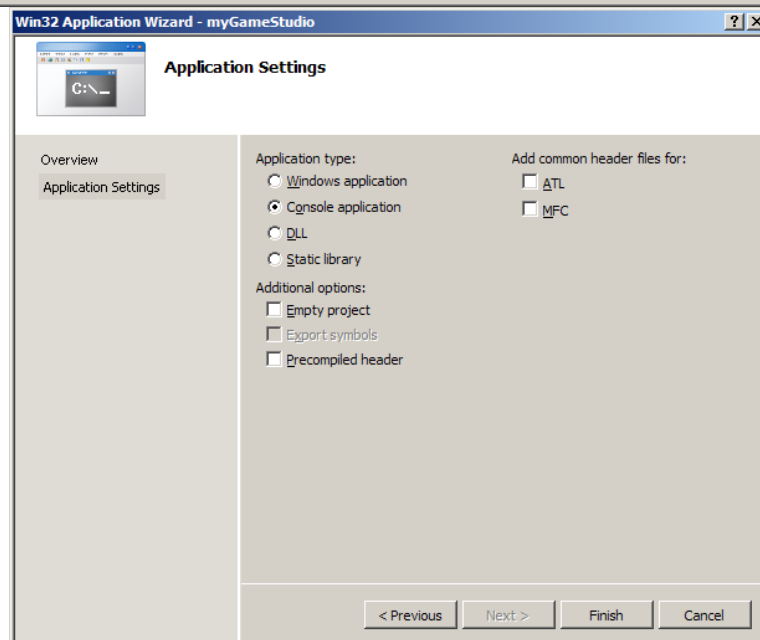
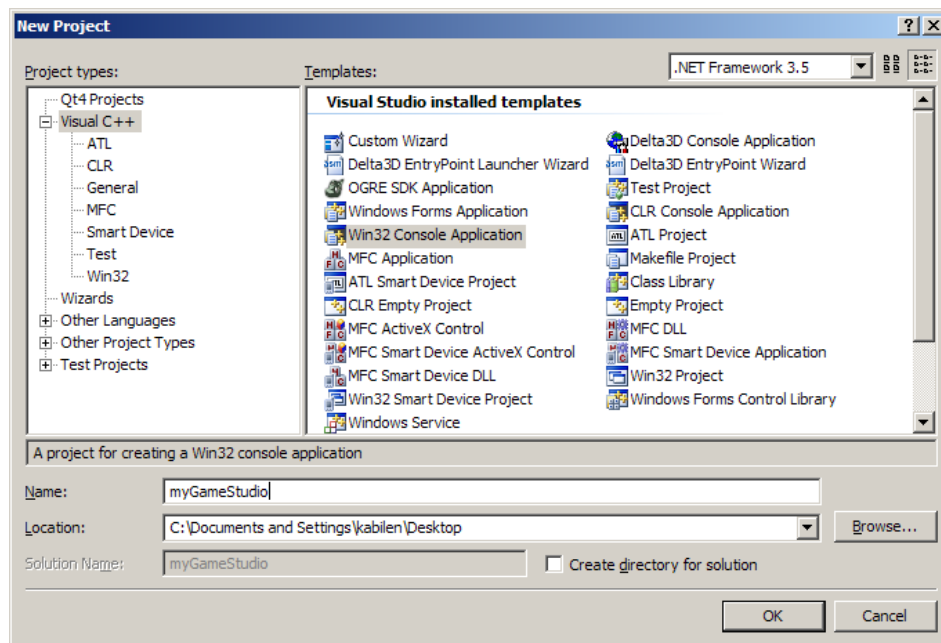
FOR PROFESSIONAL & EXPRESS EDITIONS

PRE-REQUISITES

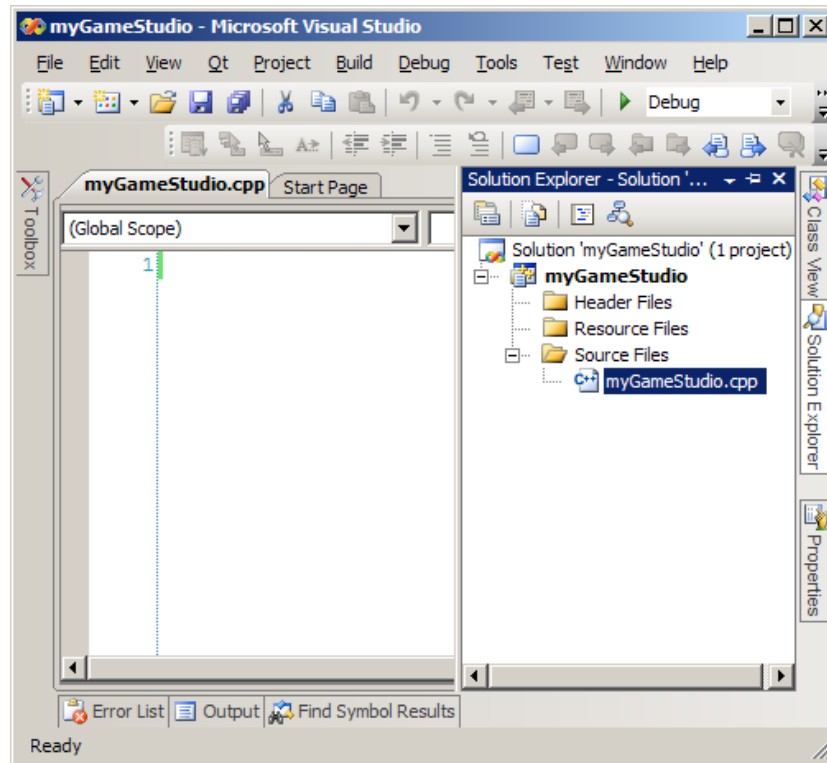
- Make sure the platform SDK is installed if using Visual Studio Express.
- Visual Studio Express and the platform SDK can be downloaded freely from Microsoft downloads.

STEP 1: CREATING PROJECT

- Create a win32 console application project and give it a name e.g. myGameStudio

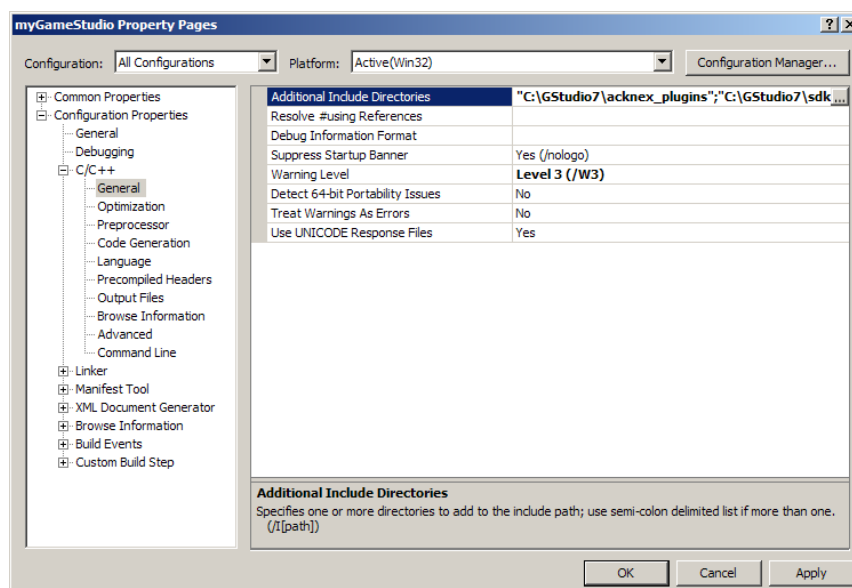


- 4 files will be created in the solution explorer: **stdafx.h**, **targetver.h**, **myGameStudio.cpp** and **stdafx.cpp**.
- Remove all files and keep only **myGameStudio.cpp**, and clear the code in **myGameStudio.cpp** as shown in the figure below:

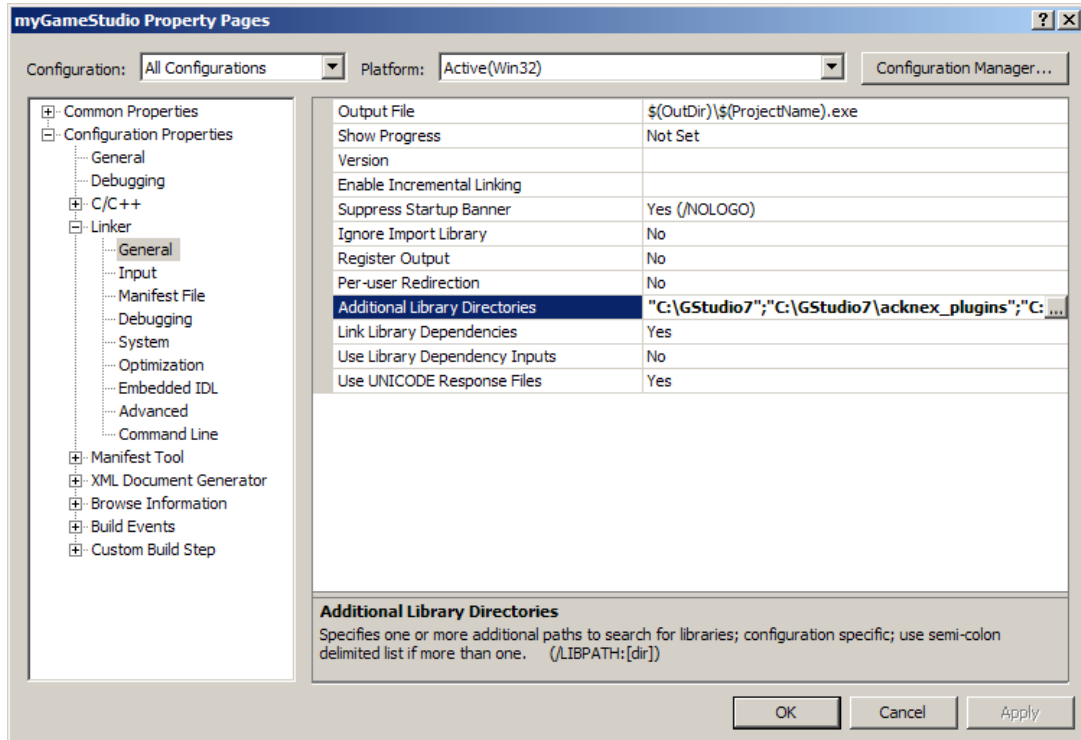


STEP 2: PROJECT SETTINGS

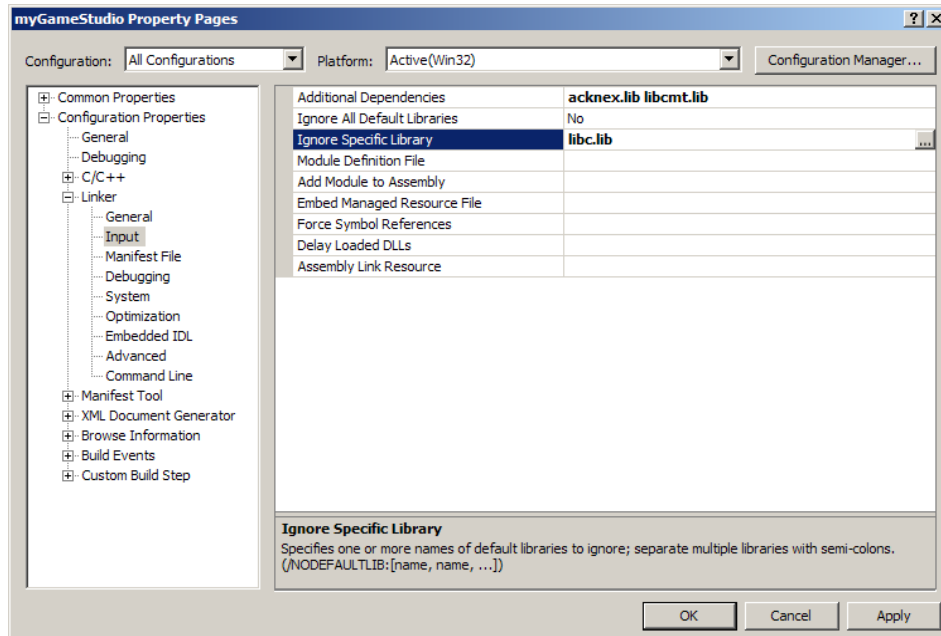
- Edit the project settings: Add **"C:\GStudio7\acknex_plugins";"C:\GStudio7\sdk_engine"** to additional include directories. (Assuming your gamestudio is installed at C:\GStudio7)



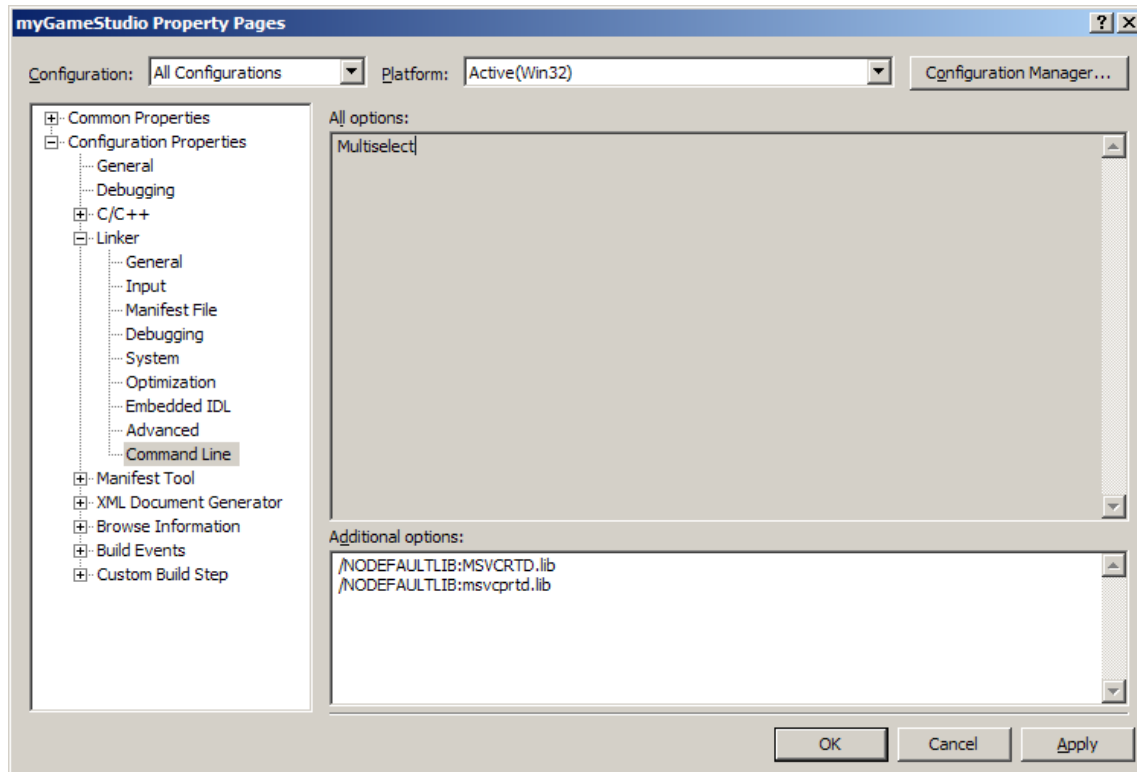
- Under Linker, add the following Additional Library Directories:
"C:\GStudio7";"C:\GStudio7\acknex_plugins";"C:\GStudio7\sdk_engine"



- Under Linker->Input, Additional dependencies, add **acknex.lib libcmt.lib**. And under Ignore Specific Library, add **libc.lib**



- Under Linker->Command Line, add the following to the additional options:
/NODEFAULTLIB:MSVCRTD.lib
/NODEFAULTLIB:msvcprtd.lib



- That's all for the linking.

STEP 3: CREATING A SAMPLE PROJECT

- Open the file myGameStudio.cpp and add the following code to it: (note: assume you have built a level named as arena.wmb)

```

// #define WIN32_LEAN_AND_MEAN
#include <windows.h>
#include <stdlib.h>
#include <malloc.h>
#include <memory.h>
#include <tchar.h>

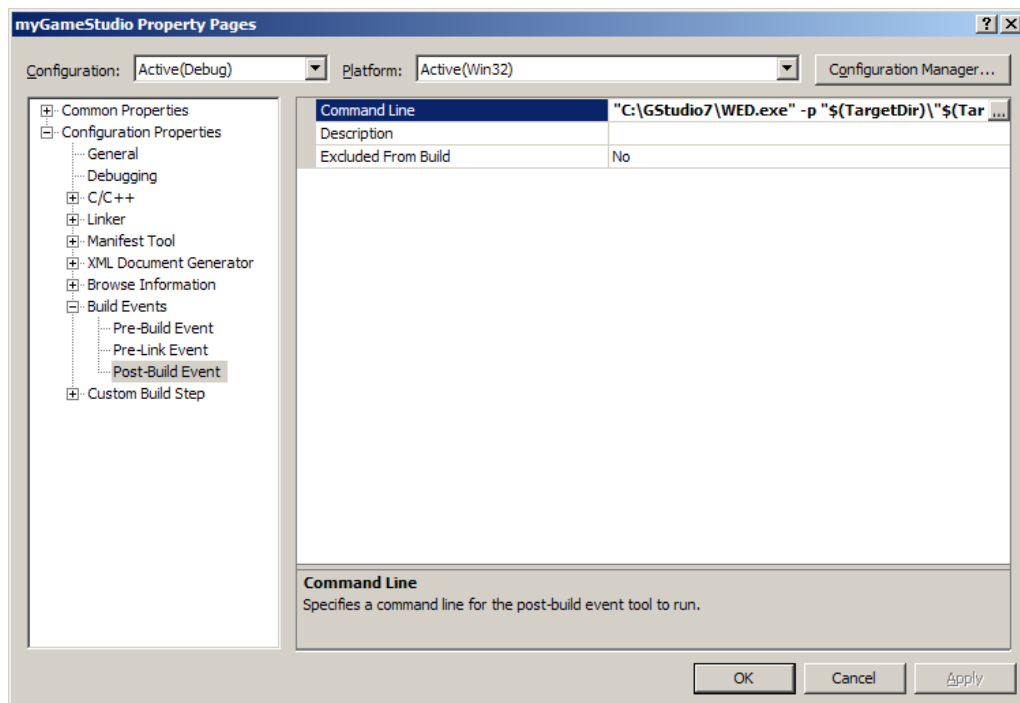
// Include the engine data types, variables, and functions
#include "adll.h"

int main()
{
    engine_open("arena.wmb");
    while (engine_frame());
    engine_close();
    return 0;
}

```

- Compile the project. Press F5.
- This will create a myGameStudio.exe file in the debug/release folder of the VC++ project.
- To execute this exe, we need an acknex.dll which can be generated from WED.
- The following are the ways to run the exe:
 - Copy the generated myGameStudio.exe and arena.wmb into C:\GStudio7 where WED.exe resides. There you can run the exe.
 - Another way is to generate an acknex.dll with WED while publishing. Copy the arena.wmb, the acknex.dll and the myGameStudio.exe into one folder. Then can distribute.
 - To automate the step above, in the Visual Studio project settings add the following to the post-build event:

"C:\GStudio7\WED.exe" -p "\$(TargetDir)\\$(TargetFileName)



- In this way, every time you build your project in Visual Studio, an acknex.dll is created from WED through a command line and is placed in your target directory, i.e. the debug or release folder.

STEP 4: TRY ONE OF THE TUTORIAL

```
#define WIN32_LEAN_AND_MEAN
#include <windows.h>
#include <stdlib.h>
#include <malloc.h>
#include <memory.h>
#include <tchar.h>
#include "adll.h"

ENGINE_VARS *ev;

int main()
{

    ev = engine_open(NULL);
    if (!ev) return 1;        // acknex.dll not found

    level_load("arena.wmb");

    SETV(fps_max,50);

    while (engine_frame())
    {

        v(camera).pan += 3 * v(key_force).x;
        v(camera).tilt += 3 * v(key_force).y;

        VECTOR vMove;
        vMove.x = 6.0 * (v(key_w) - v(key_s));
        vMove.y = 6.0 * (v(key_a) - v(key_d));
        vMove.z = 0;

        vec_rotate (&vMove, (ANGLE*)&v(camera).pan);
        vec_add ((VECTOR*)&v(camera).x, &vMove);
    }

    engine_close();
    return 0;
}
```

Special Thanks to: Pararealist pararealist@ntlworld.com for helping in the successful conceptualizing of this tutorial.