Guide to Enigma executable building

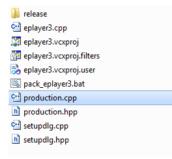
What you need:

- Visual Studio 2010 (Visual C++ Express 2010 might be sufficient, but is not tested)
- Newest DirectX SDK (e.g. June 2010)
- Java Runtime (grab the JRE from http://www.oracle.com/technetwork/java/javase/downloads/index.html)
- QT 4.8 (only if you want to build eStudio itself, which most people should not need)

Step 1: Exporting your project from eStudio

Step 1.1: Delete production.cpp

you will find this file in /code/eplayer3 directory. This is exactly what we want to export and generate by the tool so delete the old first so we can see if the export worked fine afterwards.

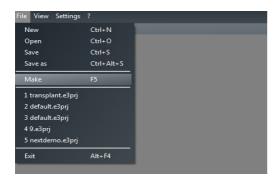


Step 1.2: Run eStudio and export demo

Run the tool and find and click the "demo" operator of your project:



Now export it using the "make" option in the "file" menu:



After that you should have saved your project as a e3scr file. There should also be a couple more files which we will need. Namely the 2 files ending in bin.h and ops.h



Now comes the tricky part. The export will also create a file "productionsources.gen" that will sit in your binary directory. If you did not compile your eStudio yourself, this will probably contain some wrong paths. Open the file and replace "d:\dev\enigma3_trunk\" with the path, you unpacked the enigma code.

It might look something like this afterwards:

```
eDemoOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\miscops.cpp
eSeqSceneOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\sequencerops.cpp
eFxMergeOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\effectops.cpp
eFxAdjustOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\effectops.cpp
eFxSasoOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\effectops.cpp
eFxCameraOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\miscops.cpp
eSceneOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\miscops.cpp
eLightOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\modelops.cpp
eModelMergeOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\modelops.cpp
eModelTransformOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\modelops.cpp
eModelModelOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\modelops.cpp
eMeshTransformOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\modelops.cpp
eMeshMultiplyOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\modelops.cpp
eMeshMultiplyOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\meshops.cpp
eMeshMultiplyOp;C:\dev\Enigma_Studio_3 - Transplant_Edition\code\eshared\opstacking\meshops.cpp
```

Save the file and then run "eplayercppcollector.bat" in the binary directory.

This should show you this nice result without any errors. If you see a problem here you might not have installed JRE correctly or maybe the paths above are still not correct.

```
C:\dev\Enigma_Studio_3_-_Transplant_Edition\binary>java -jar ./eplayercppcollect
or.jar
C:\dev\Enigma_Studio_3_-_Transplant_Edition\binary>pause
Drücken Sie eine beliebige Taste . . .
```

Now it is time to fire up Visual Studio by double clicking /code/enigma3.sln

Step 2: Compiling the .exe

Step 2.1: Modifying production.hpp

Open up production.hpp and modify the lines 20/21 as seen in the screenshot below to point to the 2 .h files you exported ealier. For transplant this should already be correct.

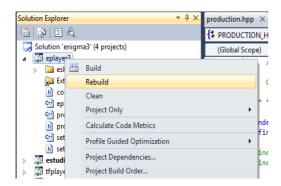
```
production.hpp X
olution Explorer
🛅 | 📴 | 🗵 ዲ
                                                        {$ PRODUCTION_HPP
                                                                                             #define PRODUCTION HPP
Solution 'enigma3' (4 projects)
                                                           (Global Scope)
  eplayer3
                                                                                                           /_/_/
                                                                                                                    1_1 /
      eshared
      External Dependencies
                                                                           Copyright @ 2003-2010 Brain Control, all rights reserved.
                                                               10
      n configinfo.hpp
                                                               11
      eplayer3.cpp
                                                               13
      production.cpp
                                                                   #ifndef PRODUCTION HPF
                                                               14
      n production.hpp
                                                                     #define PRODUCTION HPP
      setupdlg.cpp
                                                               16
      in setupdlg.hpp
                                                                    //#include "../../binary/testintro.e3scr.bin.h"
//#include "../../binary/testintro.e3scr.ops.h"
                                                               17
   estudio3
   tfplayer3
                                                               19
                                                                    #include "../../demos/transplant/transplant.e3scr.bin.h"
#include "../../demos/transplant/transplant.e3scr.ops.h"
   tfvst3
                                                               20
                                                               21
                                                               22
                                                                     #endif // PRODUCTION_HPP
```

Step 2.2: Compiling

Check that the project is set to "Release" not "Debug"



Now you just compile the project by clicking "Rebuild" on the eplayer3 project:



After that ran through, you should have an "eplayer.exe" in your binary directory. Running "pack_eplayer3.bat" will compress that and leave you with the following (or similar) screen and a file "eplayer3_packed.exe" that will hopefully be smaller than 64k:)

Hope this all worked fine for you, if not you can message me at payne@braincontrol.org

Enjoy!