

Guide to Enigma executable building

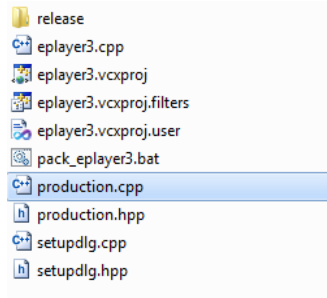
What you need:

- 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

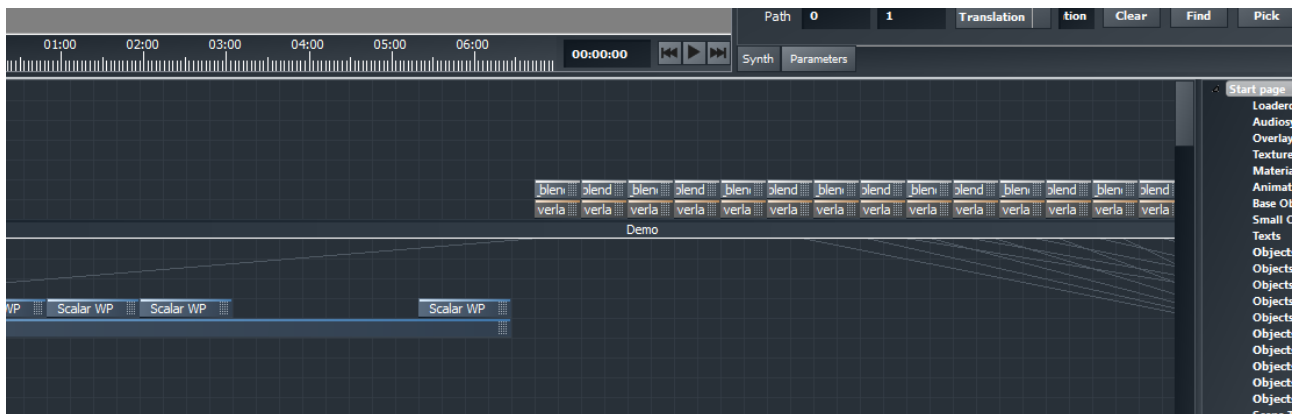
Step 1.1: Delete production.cpp

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.

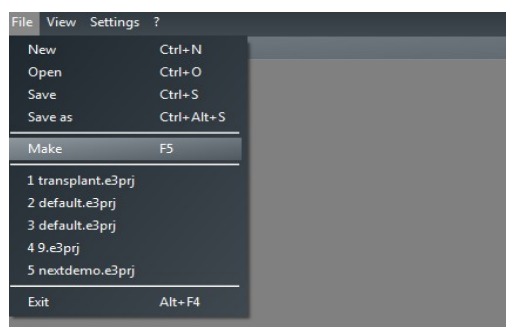


Step 1.2: Run eStudio and export demo

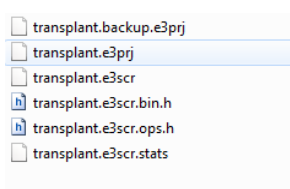
Run the tool and find and click the „demo“ operator of your project:



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



It might look something like this afterwards:

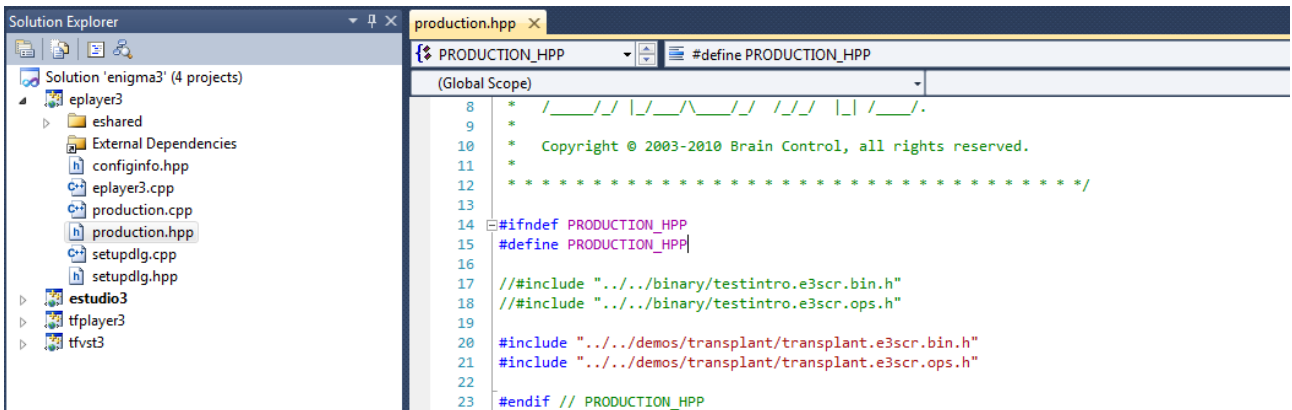
correctly or maybe the paths above are still not correct.

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

Step 2: Compiling the .exe

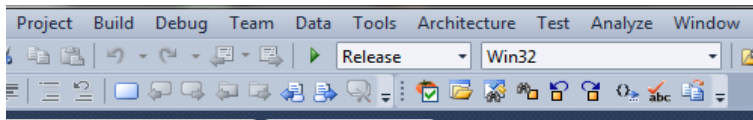
Step 2.1: Modifying production.hpp

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 earlier. For transplant this should already be correct.

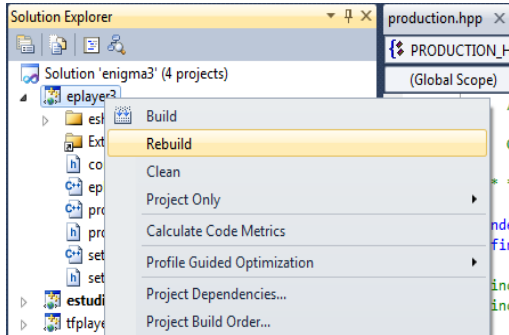


Step 2.2: Compiling

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 :)

```
C:\dev\Enigma_Studio_3_-_Transplant_Edition\binary\eplayer3_packed.exe konnte nicht gefunden werden
C:\dev\Enigma_Studio_3_-_Transplant_Edition\binary>..\tools\kkrunchy.exe eplayer3.exe --new --out eplayer3_packed.exe --best --refsize 64
kkrunchy 0.23a4/asm0? >> radical exe packer <c> f. giesen 2003-2007

- .map file successfully loaded
- preprocessing, filtering & reslicing
- packing [#####] => 63612 bytes <in 3.72s>
- Checksum present, clearing.
- WARNING: Out ImageBase 0x3d0000 lower than 0x400000, won't run under Win9x
- writing output file eplayer3_packed.exe
- packed executable 268800 -> 65536 bytes
- writing pack ratio analysis eplayer3.kkm
- delta to reference size: -28 bytes

C:\dev\Enigma_Studio_3_-_Transplant_Edition\binary>java -jar ../KkrunchyAnalyzer.jar
Analyzing Kkrunchy logs ...
Parsing complete
Kkrunchy log analyzation written !
```

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

Enjoy!