## Subject: [SOLVED][Question] Is anyone able to build UPP and Binaries based upon it as 32-Bit?

Posted by MeerMusik on Thu, 09 Dec 2021 05:08:13 GMT

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Hello.

Is anyone able to build UPP and Apps based on UPP in X86 Mode on a X86\_64 Linux Machine?

On Manjaro X86\_64 I keep getting this Error:

/usr/include/glib-2.0/glib/gtypes.h: In function 'gboolean \_GLIB\_CHECKED\_ADD\_U64(guint64\*, guint64, guint64)':

/usr/include/glib-2.0/glib/gtypes.h:463:47: error: static assertion failed: Expression evaluates to false

463 | G\_STATIC\_ASSERT(sizeof (unsigned long long) == sizeof (guint64));

/usr/include/glib-2.0/glib/gmacros.h:823:46: note: in definition of macro 'G\_STATIC\_ASSERT' 823 | #define G STATIC ASSERT(expr) static assert (expr, "Expression evaluates to false")

Does the pkg-config provided by UPP something to prevent building X86 Libs? Another Place I should look for something hard-coded by UPP?

I also asked a similar Question about theIDE and UMK in another Section - which seems mostly to be visited by Google Bots these Days: https://www.ultimatepp.org/forums/index.php?t=msg&th=11685&s tart=0&

System Info:

- 1. Manjaro KDE, X86\_64
- 2. GCC 11.2 Multilib
- 3. All necessary Lib32-\* Variants are installed
- 4. GCC Flags includes: -m32
- 5. Link Options includes: -WI,-melf32\_x86\_64

Any other Ideas!?

Thank you very much in advance!

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EDIT01:

Right, me being an complete Idiot (and not having used Manjaro == Linux for nearly a year), I forgot that I also need to overwrite the Makefile with the following options:

export PKG\_CONFIG\_PATH="/usr/lib32/pkgconfig/" export LD\_LIBRARY\_PATH="/usr/lib32/" export CPPFLAGS="-L/usr/lib32/" And also add -WI,-melf\_i386 to the CFLAGS and CXXFLAGS.

Which results in:

```
make -j$(nproc) V=1 -f Makefile CC="cc -m32" CXX="c++ -m32" CFLAGS="-O3
-ffunction-sections -fdata-sections -std=c2x -WI,-melf_i386 -WI,--gc-sections" CXXFLAGS="-O3
-ffunction-sections -fdata-sections -std=c++20 -WI,--gc-sections -WI,-melf_i386"
```

With that the IDE compiles fine. Will update the other Thread soon.

Sorry and have a nice Day :)

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Page 2 of 2 ---- Generated from U++ Forum
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