Subject: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Mon, 12 Mar 2012 17:18:15 GMT

View Forum Message <> Reply to Message

Sorry for the screenshot.

Maybe those should be separate topics? But for now...

In order to attract more people into upp-cocoa who doesn't have macs I have been developing upp-cocoa also on MS Windows.

I constantly struggling which flags should I change and how to name them because, I can only guess the whole future picture of the u++ flag system.

Can someone outline structure of the u++ compiling flags?

Or is there one?

Something like:

1 Kernel or OS (like in google chrome end other places):

1.1 OS WINDOWS

1.2 OS LINUX

1.3 OS BSB

(I am still using PLATFORM\_COCOA but it is not correct. see below)

2 peripherals middleware? Keyboard? for cocoa I need WINDOWS\_KEYBOARD APPLE\_KEYBOARD LINUX BSD KEYBOARD

.... something in between for draw?

then GUI\_BACKENDS dont forget GUI\_XCB!

eg cygwin - OS\_WINDOWS - WINDOWS\_KEYBOARD - GUI\_X11 cocoa OS\_WINDOWS - WINDOWS\_KEYBOARD - GUI\_COCOA

but some cocoa is used if GUI\_OPENGL? so it would be logical to have MIDDLE\_COCOA? then inside I am using GNU\_STEP or simply \_\_APPLE\_\_

or what?

So, what better prefix would be instead of MIDDLE\_..

The prefixes OS\_.. GUI\_.. are clear. Imagine a table? or is there one for u++?

help...

But, I am sorry, IMO, PLATFORM\_POSIX meaning is too wide and confusing..

Other ideas?

P.S I want to harmonize and clean at least those 2 sets of uppsrc on my mac and windows to be ready to post or commit somewhere ...

## File Attachments

1) Screen\_GNUSTEP\_U++.PNG, downloaded 1359 times

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by mirek on Tue, 13 Mar 2012 07:11:16 GMT

View Forum Message <> Reply to Message

fudadmin wrote on Mon, 12 March 2012 13:18

But, I am sorry, IMO, PLATFORM\_POSIX meaning is too wide and confusing..

Why confusing? The sole purpose is to identify API for conditional compilation. POSIX represents a pretty wide but guaranteed set of API calls, which is different from Win32 API.

Surely, PLATFORM\_LINUX or PLATFORM\_BSD are narrower subsets, but it is definitely worth to have superset, as most things are the same.

Mirek

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by Tom1 on Tue, 13 Mar 2012 09:29:04 GMT

View Forum Message <> Reply to Message

Hi Aris,

Thanks for bringing to my knowledge the alternative test platform - GNUstep. I just downloaded+installed the parts (MSYS system, core and devel) for windows. I may be a bit ahead of schedule with this, but: Once you get your work uploaded, could you please post a (hopefully short step-by-step guide how to get it up and running on GNUstep.

--

I don't know the big picture, so don't take me too seriously, but I think OpenGL is always used in companion with something else, like GDI, X11 or Cocoa in this case. So, maybe GUI\_OPENGL should not exist as an alternative to GUI\_X11, etc. but instead as a kind of add-on to them.

Best regards,

Tom

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Tue, 13 Mar 2012 17:43:54 GMT

View Forum Message <> Reply to Message

Tom1 wrote on Tue, 13 March 2012 09:29

Thanks for bringing to my knowledge the alternative test platform - GNUstep. I just downloaded+installed the parts (MSYS system, core and devel) for windows. I may be a bit ahead of schedule with this, but: Once you get your work uploaded, could you please post a (hopefully short step-by-step guide how to get it up and running on GNUstep.

Great! Thanks Tom for your interest! You are not much ahead of schedule.. Maybe only one day At the moment for upp-cocoa I use 2 packages: UNS and SkeletonCoc. So the first rough steps:

- 1. install gnustep. You did it (hopefully correctly )
- 2. I should have UNS for testing on gnustep and mac to be ready in a few hours zipped somewhere here.
- 3. I will post a version if of theide for windows gnustep.
- 4. You will try to compile some tests and if any errors I will tell you what to change in Core.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Tue, 13 Mar 2012 17:56:47 GMT

View Forum Message <> Reply to Message

mirek wrote on Tue, 13 March 2012 07:11fudadmin wrote on Mon, 12 March 2012 13:18 But, I am sorry, IMO, PLATFORM\_POSIX meaning is too wide and confusing.

Why confusing? The sole purpose is to identify API for conditional compilation. POSIX represents

a pretty wide but guaranteed set of API calls, which is different from Win32 API.

Surely, PLATFORM\_LINUX or PLATFORM\_BSD are narrower subsets, but it is definitely worth to have superset, as most things are the same.

Mirek

ok, thanks. I will try to adjust them as little as possible to be fit for purpose. And then you adjust...

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 02:06:08 GMT

View Forum Message <> Reply to Message

fudadmin wrote on Tue, 13 March 2012 17:43

2. I should have UNS for testing on gnustep and mac to be ready in a few hours zipped somewhere here.

Tom, I have posted the new UNS. Check another topic. (what the hell happened to forum settings? Where the nice addresses disappeared?)

Try to build with the existing windows theide but you might need to copy ide.exe somewhere inside gnustep dir and also create uppsrc nests inside gnustep and run ide and/or (in order to) run built products from there. sorrry, I can't remember environment variables etc and I dont have windows pc tonight.

You will need to have active LIBRARIES (in project settings) depending on flags objc gnustep-base gnustep-gui ffi m libstdc++ (but they are in UNS)

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 12:49:35 GMT

View Forum Message <> Reply to Message

check MINGW.bm

```
BUILDER = "GCC";

COMPILER = "g++";

DEBUG_INFO = "2";

DEBUG_BLITZ = "1";

DEBUG_LINKMODE = "1";

DEBUG_OPTIONS = "-00 -gstabs -pipe -fvisibility=hidden -Wno-trigraphs";
```

```
DEBUG FLAGS = "";
DEBUG_LINK = "";
RELEASE_BLITZ = "1";
RELEASE LINKMODE = "1":
RELEASE_OPTIONS = "-O3 -ffunction-sections";
RELEASE_SIZE_OPTIONS = "-Os -finline-limit=20 -ffunction-sections";
RELEASE FLAGS = "":
RELEASE_LINK = "";
DEBUGGER = "qdb";
PATH = "C:\\MinGW\\bin":
INCLUDE = "C:\\MinGW\\include;C:\\GNUstep\\GNUstep\\System\\Library\\Headers";
LIB = "C:\\MinGW\\lib;C:\\GNUstep\\GNUstep\\System\\Library\\Libraries";
REMOTE_HOST = "";
REMOTE_OS = "";
REMOTE_TRANSFER = "";
REMOTE\_MAP = "";
LINKMODE LOCK = "0":
```

Edit: for some reasons forum doesn't allow to upload ide.zip but try to put your mingw.bm and your version somewhere: C:\GNUstep\msys\1.0\home\arilect\upp

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 13:13:32 GMT

View Forum Message <> Reply to Message

try to compile your own ide with this file

Edit: Atttention! the changes in this file might not help linking gnustep stuff with MINGW ... I will post updates later.

## File Attachments

1) GccBuilder.zip, downloaded 503 times

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 13:18:28 GMT

View Forum Message <> Reply to Message

try to change part of Core/config.h #define COMPILER\_GCC 1

#if WIN32

```
#define COMPILER MINGW
 #define OS WINDOWS
 #define PLATFORM_WIN32
#endif
#ifdef __OBJC__
#include <objc/objc.h>
#endif
 #if flagCOCOA
 #define PLATFORM COCOA
 #define GUI COCOA 1
 #endif
 #if flagX11
 #define GUI_X11 1 //aris002 for cygwin?
 #endif
#if flagGUI WIN
#define GUI WIN
#endif
#if __unix || __unix__ || __APPLE__
 #define PLATFORM POSIX 1
```

Edit: actually I changed everything in Core from PLATFORM\_WIN32 to OS\_WINDOWS and then have been trying to adjust other parts but at the start you don't need.

Please post your errors.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP Posted by Tom1 on Wed, 14 Mar 2012 13:49:05 GMT

View Forum Message <> Reply to Message

Hi Aris,

Your feeding instructions at a rate well beyond my internal clock, but I'm catching up eventually. So, I have applied changes to MINGW.bm, config.h and now finally merged your GccBuilder.icpp. However, this last change caused inability to build theide:

```
----- ide/Builders ( GUI SVO_VALUE GCC WIN32 ) (5 / 35)
GccBuilder.icpp
...
There were errors. (0:01.27)
```

How to proceed?

Best regards,

Tom

Edit by fudadmin: deleted the log to keep the forums cleaner.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 13:58:05 GMT

View Forum Message <> Reply to Message

my uppsrc version is not merged with the latest updates. try to compare gccbuilder.icpp and apply my changes intelligently...

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by Tom1 on Wed, 14 Mar 2012 14:21:04 GMT

View Forum Message <> Reply to Message

OK, now you may determine how 'intelligent' I was... (The revised file is attached.) This one compiled into a supposedly working ide.exe.

However, the same compilation errors seem to still exist when compiling UNS package.

You were referring to flags in one of your posts. You mean Main package configuration flags / or not? I have nothing there yet. Should I?

// Tom

## File Attachments

1) GccBuilder.zip, downloaded 481 times

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 14:26:06 GMT

View Forum Message <> Reply to Message

Tom1 wrote on Wed, 14 March 2012 14:21OK, now you may determine how 'intelligent' I was... (The revised file is attached.) This one compiled into a supposedly working ide.exe.

However, the same compilation errors seem to still exist when compiling UNS package.

You were referring to flags in one of your posts. You mean Main package configuration flags / or not? I have nothing there yet. Should I?

// Tom

Have you applied the changes to the Core/config.h?

What flags have you got in test package?

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by Tom1 on Wed, 14 Mar 2012 14:30:20 GMT

View Forum Message <> Reply to Message

config.h was already applied earlier.

Currently no flags. I tried with GUI and GUI SKELETON COCOA without effect.

// Tom

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 14:34:04 GMT

View Forum Message <> Reply to Message

but flags in your testing should be something like GUI USEMALLOC COCOA .NOGTK TEST\_UNS .NOGTK - may not needed (I switched to mac...)

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 14:38:02 GMT

View Forum Message <> Reply to Message

After applying flags from above please post the first few errors.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by Tom1 on Wed, 14 Mar 2012 14:43:30 GMT

Tried with and without .NOGTK -- no apparent difference. Then tried to add SVO\_VALUE, but that did not have effect either.

Here are the first lines of plenty more...

from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\UNS.h:11, from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\UNSApplication.mm:2:

C:\GNUstep\msys\1.0\home\tom\upp\uppsrc/Core/ValueUtil.h: In constructor 'Upp::Id::Id(const Upp::String&)':

C:\GNUstep\msys\1.0\home\tom\upp\uppsrc/Core/ValueUtil.h:80:52: error: expected unqualified-id before '=' token

C:\GNUstep\msys\1.0\home\tom\upp\uppsrc/Core/ValueUtil.h: In constructor 'Upp::Id::Id(const char\*)':

C:\GNUstep\msys\1.0\home\tom\upp\uppsrc/Core/ValueUtil.h:81:52: error: expected unqualified-id before '=' token

In file included from C:\GNUstep\GNUstep\System\Library\Headers/Foundation/NSObject.h:30:0, from

C:\GNUstep\GNUstep\System\Library\Headers/Foundation/FoundationErrors.h:29,

from C:\GNUstep\GNUstep\System\Library\Headers/Foundation/Foundation.h:33,

from C:\GNUstep\GNUstep\System\Library\Headers/Cocoa/Cocoa.h:33.

from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\/UNS.h:29,

from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\UNSApplication.mm:2:

C:\GNUstep\GNUstep\System\Library\Headers/Foundation/NSObjCRuntime.h: At global scope:

C:\GNUstep\GNUstep\System\Library\Headers/Foundation/NSObjCRuntime.h:147:20: error:

'INTPTR MAX' was not declared in this scope

In file included from

C:\GNUstep\GNUstep\System\Library\Headers/Foundation/Foundation.h:68:0,

from C:\GNUstep\GNUstep\System\Library\Headers/Cocoa/Cocoa.h:33,

from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\/UNS.h:29,

from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\UNSApplication.mm:2:

C:\GNUstep\GNUstep\System\Library\Headers/Foundation/NSFileManager.h:190:8: warning: 'NSDirectoryEnumerator' has a field 'NSDirectoryEnumerator::\_flags' whose type uses the anonymous namespace [enabled by defaul

tl

In file included from C:\GNUstep\GNUstep\System\Library\Headers/AppKit/AppKit.h:93:0,

from C:\GNUstep\GNUstep\System\Library\Headers/Cocoa/Cocoa.h:34,

from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\/UNS.h:29,

from C:\GNUstep\msys\1.0\home\tom\upp\uppsrc\UNS\UNSApplication.mm:2:

C:\GNUstep\GNUstep\System\Library\Headers/AppKit/NSDataLink.h:150:25: error: previous declaration of 'NSString\* NSDataLinkPboardType' with 'C++' linkage C:\GNUstep\GNUstep\System\Library\Headers/AppKit/NSPasteboard.h:109:25: error: conflicts with new declaration with 'C' linkage In file included from C:\GNUstep\GNUstep\System\Library\Headers/AppKit/AppKit.h:159:0,

// Tom

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 15:07:22 GMT

View Forum Message <> Reply to Message

My uppsrc is something 6 months old. Damn, it looks like I do not have Core/ValueUtil.h and I will need to merge. It might take some time. Id, I think, might be used in Cocoa Foundation, to... But, for now, try without SVO\_VALUE and post errors.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by Tom1 on Wed, 14 Mar 2012 15:18:55 GMT

View Forum Message <> Reply to Message

Hi,

Please find attached the compiler errors...

I'll leave the office now. Will return to morrow.

// Tom

## File Attachments

1) compile-errors-2012-03-14b.zip, downloaded 475 times

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Wed, 14 Mar 2012 15:21:53 GMT

View Forum Message <> Reply to Message

you can try my Core and help to merge... . Leaving? Ok. see you later. thanks for trying.

Edit: Core.zip removed. see posts below.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by fudadmin on Thu, 15 Mar 2012 00:50:58 GMT

View Forum Message <> Reply to Message

fudadmin wrote on Wed, 14 March 2012 15:21you can try my Core and help to merge... . Leaving? Ok. see you later. thanks for trying.

Sorry, Tom, I was rushing and juggling computers and other tasks. Forget the Core.zip above...

Only 1 problem in core for now and it should compile.

What helps is: Id::Id(const String& s) { id = s; } Id::Id(const char \*s) { id = s; }

I mean, split the declaration and definition and move the latter to the \*.cpp file intelligently...

But I don't foresee this is a proper intelligent solution. Very likely it's a road mine which can explode and I am glad you exposed it. Cocoa's objc uses 'id' for any object. 'id' might be isolated (if used) by a namespace and not to clash in cpp part but in the future we will need to think what to do. Rename all 'id' in u++ and declare it taboo? It would be interesting what other guys and Mirek think? Btw, there are no namespaces in objc. Only the dark room...

Edit1: Also, download the updated UNS.zip from the other topic

Edit2: the GccBuilder.icpp I posted doesn't link (or stopped linking) for some reasons. I will try to find out. But first, try to compile.

Edit3: linking also depends on flags... the updated UNS compiles and runs on windows with the latest upp <Core> and the changes already mentioned.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by Tom1 on Thu, 15 Mar 2012 10:36:08 GMT

View Forum Message <> Reply to Message

Hi,

Great! Good thing you figured out the Id stuff. In my opinion Mirek's word on solving the namespace issue would be needed.

--

Now: I was actually able to compile+link+run the test app on GNUstep using SVN4690 sources modified as follows:

- 1. Core/config.h as you showed above.
- 2. GccBuilder in the way you demonstrated and I yesterday uploaded the 'intelligently' merged

changes compatible with SVN4690.

- 3. Applied the Id::Id fix in the Value. (BTW: This works the same way for OldValue and the new SVO\_VALUE.)
- 4. I had to change UNS.h as follows to remove some errors:

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Restad by fudedmin on Thu, 15 Mar 2012 12:42:07 CMT

Posted by fudadmin on Thu, 15 Mar 2012 13:42:07 GMT

View Forum Message <> Reply to Message

Very good news you have got it running! But I don't need this:...

...

Also it looks that this kind of includes I had left commented (except INTPTR\_MAX) are still needed. But, according to some, it is

a brutal fix

What gcc version have got? I have got 4.6.1.

You can try to use UNSWindow and UNSView in CocWnd and other stuff from UNS package. I will post more later.

Subject: Re: Need help with the structure of flags etc. and running u++ cocoa on Windows 7 GNUSTEP

Posted by Tom1 on Thu, 15 Mar 2012 14:14:13 GMT

View Forum Message <> Reply to Message

I've got 4.6.1 too, but still needed the changes...

I'll stay tuned for more details on UNSWindow and UNSView.

Thanks and best regards,

Tom