Subject: [fatal error:] on Centos 7
Posted by MrSarup on Wed, 21 Dec 2016 15:07:54 GMT
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Hello,

On Centos 7 64bits, I got following errors during installation of TheIDE/uppsrc package from SF.net after untarring upp-x11-src-9251.tar.gz and executing make:

```
mkdir -p _out/plugin/png//home/upp/Scripts/GCCMK.bm-Gcc-Gui-Linux-Mt-Posix-Shared/
c++ -c -x c++ -O3 -ffunction-sections -fdata-sections  -I./  -I/usr/include/freetype2
-I/usr/include/gtk-2.0 -I/usr/include/glib-2.0 -I/usr/lib/glib-2.0/include -I/usr/lib/gtk-2.0/include
-I/usr/include/cairo -I/usr/include/pango-1.0 -I/usr/include/atk-1.0 -I/usr/X11R6/include
-I/usr/X11R6/include/freetype2 -I/usr/X11R6/include/gtk-2.0 -I/usr/X11R6/include/glib-2.0
-I/usr/X11R6/lib/glib-2.0/include -I/usr/X11R6/lib/gtk-2.0/include -I/usr/X11R6/include/cairo
-I/usr/X11R6/include/pango-1.0 -I/usr/X11R6/include/atk-1.0 -I/usr/include/gdk-pixbuf-2.0
-I/usr/include/gtkglext-1.0 -I/usr/lib/gtkglext-1.0/include -I/usr/lib/i386-linux-gnu/glib-2.0/include
-I/usr/lib/x86_64-linux-gnu/glib-2.0/include -I/usr/lib/i386-linux-gnu/gtk-2.0/include
-I/usr/lib/x86_64-linux-gnu/gtk-2.0/include -DflagGUI -DflagMT -DflagGCC -DflagSHARED
-DflagLINUX -DflagPOSIX -DflagMAIN  ide/BaseDlg.cpp -o
_out/ide//home/upp/Scripts/GCCMK.bm-Gcc-Gui-Linux-Main-Mt-Posix-Shared/BaseDlg.o
In file included from ./CtrlCore/CtrlCore.h:37:0,
                 from ./CtrlLib/CtrlLib.h:4,
                 from ./ide/Common/Common.h:5,
                 from ide/ide.h:4,
                 from ide/BaseDlg.cpp:1:
./CtrlCore/Gtk.h:16:21: fatal error: gtk/gtk.h: No such file or directory
 #include <gtk/gtk.h>
                     ^
compilation terminated.
```

Further, I also got during the same process:
gmake[1]: Leaving directory `/root/install/upp/uppsrc'
cp: cannot stat 'uppsrc/ide.out': No such file or directory
Is there a solution for this?

Subject: Re: [fatal error:] on Centos 7
Posted by Zbych on Wed, 21 Dec 2016 19:39:10 GMT
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```
./CtrlCore/Gtk.h:16:21: fatal error: gtk/gtk.h: No such file or directory
 #include <gtk/gtk.h>
```

You just need to install development libraries.

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Fri, 23 Dec 2016 06:44:57 GMT
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Hello Zbych,

Thanks for your reply.

Which library do I need to install? Do you mean some external Linux libraries or something in U++ is missing?

It would be better to have this mentioned somewhere in FAQ that mentioned prerequisites of libraries.

PS: I am a newbie to U++.

Subject: Re: [fatal error:] on Centos 7
Posted by deep on Fri, 23 Dec 2016 18:03:55 GMT
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This is from debian file from distro.

apt-get replaced with yum

yum install g++
yum install make
yum install libgtk2.0-dev
yum install libnotify-dev
yum install libbz2-dev
yum install sox

Subject: Re: [fatal error:] on Centos 7
Posted by mr_ped on Sat, 24 Dec 2016 02:12:09 GMT
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On Debian (or at least at *Ubuntu) there's package "build-essentials", which does install basic things like binutils, gcc, etc... but I still think the gnumake, libgtkXYZ-dev, and few more are not "essential" (logically), so it's not a single prerequisite. Just covering many "basic" packages in one install.

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Sun, 25 Dec 2016 07:13:40 GMT
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Hello all,

Thanks for your reply. Both the answers were in the right direction. Although they were not perfect answers, they gave me a hint that I should not built the way I was doing it because there is upp.spec existing in the tar ball!

Of course, there were some binaries missing, which Deepak mentioned above. But that was not it.

The best way to go through is executing rpmbuild. Setup up rpmbuild properly and use the command mentioned in the upp.spec file.

This will find out if there are some other binaries missing. In my case, it did find out, which I installed though yum.

Then, everything got build, I hope (not tested it all yet).

In my case, some dir and files got build outside of upp installation. I am not sure if this is a bug or some minor changes needs to be done. In this regards, I have already placed a notice in the following thread here:

http://www.ultimatepp.org/forums/index.php?t=msg&th=9817 &goto=47166&#msg_47166

My next task is to find out how to compile the examples on Centos 7 64bits with GCC and see how I can make console applications work on the Centos 7 server.

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 08:04:16 GMT
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If you follow instructions from my other messages, you can compile upp without issue on Centos 7.

Here they are again:

- Install required build dependencies: yum install gtk2-devel pango-devel atk-devel cairo-devel libnotify-devel bzip2-devel xorg-x11-server-devel freetype-devel expat-devel rpm-build gcc-c++ gcc

- Download upp-x11-src-9251.tar.gz (last stable release) from sourceforge https://sourceforge.net/projects/upp/files/upp/2015.2/upp-x11-src-92 51.tar.gz/download

- Uncompress upp-x11-src-9251.tar.gz (last stable release): tar zxvf upp-x11-src-9251.tar.gz

- Change dir to upp-x11-src-9251: cd upp-x11-src-9251

- Build upp ide and umk for console build: make

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 08:43:39 GMT
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Because I want to speed up the process, here is a temporary link to a tarball
http://dl.free.fr/i4bACU1km.
It contains:

* a standard source rpm package. You can build it like this: rpmbuild --rebuild upp-9251-1.src.rpm

* a standard binary rpm package. You can install it like this: yum install upp-9251-1.x86_64.rpm

Both were built on Centos 7 x86_64.

Subject: Re: [fatal error:] on Centos 7
Posted by Klugier on Thu, 29 Dec 2016 10:16:43 GMT
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Hello amrein,

I would like to thank you for your job of renovating rpm build. I have got one question here - do we need following code in upp.spec:

```
cat > %{buildroot}/%{_datadir}/%{name}/GCC.bm << EOF
BUILDER  = "GCC";
COMPILER = "g++";
DEBUG_INFO = "2";
DEBUG_BLITZ = "1";
DEBUG_LINKMODE = "1";
DEBUG_LINK = "$LINK";
DEBUG_OPTIONS = "-O0";
DEBUG_FLAGS = "";
RELEASE_BLITZ  = "0";
RELEASE_LINKMODE = "1";
RELEASE_OPTIONS  = "-O3 -ffunction-sections -fdata-sections";
RELEASE_SIZE_OPTIONS = "-Os -finline-limit=20 -ffunction-sections -fdata-sections";
RELEASE_FLAGS = "";
RELEASE_LINK = "-Wl,--gc-sections $LINK";
DEBUGGER = "gdb";
PATH  = "";
INCLUDE  = "$INCLUDEDIR";
LIB  = "$LIBDIR";
REMOTE_HOST = "";
REMOTE_OS = "";
REMOTE_TRANSFER = "";
REMOTE_MAP = "";
```

LINKMODE_LOCK = "0";
EOF

This is redundant with information provided with build method. Moreover the flags is not compatible with each other. Please let me know what do you think about this?

Sincerely,
Klugier

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Thu, 29 Dec 2016 11:18:39 GMT
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Hello Amrein-Marie,
amrein wrote on Thu, 29 December 2016 09:43
It contains:
* a standard source rpm package. You can build it like this: rpmbuild --rebuild upp-9251-1.src.rpm
* a standard binary rpm package. You can install it like this: yum install upp-9251-1.x86_64.rpm
Both were built on Centos 7 x86_64.
Thank you very much for taking your time and making efforts to help me.

I have initially installed the rpm binary. It has installed umk + theide. But I did not need theide because I do not have any GUI on my Linux server. That does not matter if some more garbage is hanging on my server, provided I can work.

I could not come forward even with this rpm. It throws an error "Package not found". Thus, I compiled from src.rpm, which of course takes a long time. Following is the command I have executed:

umk reference SocketServer GCC -ab +DLL,SHARED SocketServer.so

Is this command correct? I have also substituted reference with /usr/share/upp/reference. It did not help.

I also find that there are no .var files under /root/.upp or anywhere.
Are they necessary? Is there something I am missing or is the environment not properly setup?
What I do not understand is why do I need to give +DLL, where I am compiling on Linux? May be this is normal.
Do I need to change to MT instead of GUI?

There is still a worm in there and it stops me to come forward.

Again, thanks for your help...

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 12:17:04 GMT
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To get theide and umk working out of the box, upp.spec needs to create its own GCC.bm.

The main differences between GCC.bm created by upp.spec and the one created inside the domake script explain why:

* The upp.spec file add this line to force the use of g++ or theide won't work out of the box:

COMPILER = "g++";

* The upp.spec force the use of libpng and libfreetype on Fedora to prevent error while linking. On Fedora:

DEBUG_LINK = "-lpng16 -lfreetype";
RELEASE_LINK = "-Wl,--gc-sections -lpng16 -lfreetype";

* The upp.spec replace the "zero" debugger with "gdb" because I can't find any "zero" debugger on main stream Linux rpm distributions:

DEBUGGER = "gdb";

* The upp.spec create the INCLUDE and LIB variables using pkg-config because includes and libraries are Linux distribution dependent.

INCLUDE = "$INCLUDEDIR";
LIB = "$LIBDIR";

* The upp.spec file doesn't force gcc to use c++11 and so the line << COMMON_CPP_OPTIONS = "-std=c++11"; >> is not included.

In fact, the best way for this would be to take the time to think about what's the best way to (1) package upp source (2) build upp (3) test upp. But not just for rpm based distributions but for all supported platforms (Linux, Windows, MacOS, ...). I think about templates, multi-threads compilation, virtual machines compiling last upp source (openSUSE Build Service for example), and more.

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 16:57:46 GMT
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For me the correct command is:
umk reference SocketServer GCC.bm -absv

You need GCC.bm to be inside ~/.upp/theide/ and also to copy all source from /usr/share/upp inside ~/upp and more.
Here is how I built SocketServer with umk:

cp -r /usr/share/upp ~/
mkdir -p ~/.upp/theide
cp /usr/share/upp/GCC.bm ~/.upp/theide/
cd ~/upp/
umk reference SocketServer GCC -absv

You can now run SocketServer
~/.upp/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer

---

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 17:05:28 GMT
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And if you want to test it, install netcat then run SocketServer and send the word "time" to port 3214:

sudo yum install nc

~/.upp/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer &

echo time | nc localhost 3214

killall SocketServer

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Thu, 29 Dec 2016 18:56:07 GMT
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Hello Amrein-Marie,

Again, thanks for ypour help. I do not seem to have any luck further. Following are the errors I get, when I execute commands in bash given by you in the above post:

Inline assembly: /root/upp/reference
Output directory: /root/.upp/umk/_out
Main package: /root/upp/reference/SocketServer/SocketServer.upp
Package does not exist

```
    Inline assembly: /root/upp/reference
    Output directory: /root/.upp/umk/_out
    Main package: /root/upp/reference/SocketServer/SocketServer.upp
    Build method: /root/upp/GCC.bm
    Cleaning SocketServer
    Cleaning Core
    Cleaning Web
    ...done

    ----- Core ( GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX ) (1 / 3)
    cd /root/upp/reference/Core
    ----- Web ( GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX ) (2 / 3)
    cd /root/upp/reference/Web
    ----- SocketServer ( MAIN GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX ) (3 / 3)

    cd /root/upp/reference/SocketServer

    SocketServer.cpp

    g++ -c  -I"/root/upp/reference" -I"/usr/include/freetype2" -I"/usr/include/gtk-2.0"
-I"/usr/lib64/gtk-2.0/include" -I"/usr/include/atk-1.0" -I"/usr/include/cairo"
-I"/usr/include/gdk-pixbuf-2.0" -I"/usr/include/pango-1.0" -I"/usr/include/glib-2.0"
-I"/usr/lib64/glib-2.0/include" -I"/usr/include/pixman-1" -I"/usr/include/libpng15"
-I"/usr/include/libdrm" -I"/usr/include/harfbuzz"
-I"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared" -DflagMAIN
-DflagGCC -DflagDEBUG -DflagSHARED -DflagDEBUG_FULL -DflagBLITZ -DflagLINUX
-DflagPOSIX -ggdb -g2  -fexceptions -D_DEBUG -O0 -x c++
"/root/upp/reference/SocketServer/SocketServer.cpp"  -o
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"
    /root/upp/reference/SocketServer/SocketServer.cpp:1:23: fatal error: Core/Core.h: No such file
or directory
    #include <Core/Core.h>
                        ^
    compilation terminated.

    g++ -c  -I"/root/upp/reference" -I"/usr/include/freetype2" -I"/usr/include/gtk-2.0"
-I"/usr/lib64/gtk-2.0/include" -I"/usr/include/atk-1.0" -I"/usr/include/cairo"
```

-I"/usr/include/gdk-pixbuf-2.0" -I"/usr/include/pango-1.0" -I"/usr/include/glib-2.0"
-I"/usr/lib64/glib-2.0/include" -I"/usr/include/pixman-1" -I"/usr/include/libpng15"
-I"/usr/include/libdrm" -I"/usr/include/harfbuzz"
-I"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared" -DflagMAIN
-DflagGCC -DflagDEBUG -DflagSHARED -DflagDEBUG_FULL -DflagBLITZ -DflagLINUX
-DflagPOSIX -ggdb -g2 -fexceptions -D_DEBUG -O0 -x c++
"/root/upp/reference/SocketServer/SocketServer.cpp" -o
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"

Error executing g++ -c -I"/root/upp/reference" -I"/usr/include/freetype2" -I"/usr/include/gtk-2.0"
-I"/usr/lib64/gtk-2.0/include" -I"/usr/include/atk-1.0" -I"/usr/include/cairo"
-I"/usr/include/gdk-pixbuf-2.0" -I"/usr/include/pango-1.0" -I"/usr/include/glib-2.0"
-I"/usr/lib64/glib-2.0/include" -I"/usr/include/pixman-1" -I"/usr/include/libpng15"
-I"/usr/include/libdrm" -I"/usr/include/harfbuzz"
-I"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared" -DflagMAIN
-DflagGCC -DflagDEBUG -DflagSHARED -DflagDEBUG_FULL -DflagBLITZ -DflagLINUX
-DflagPOSIX -ggdb -g2 -fexceptions -D_DEBUG -O0 -x c++
"/root/upp/reference/SocketServer/SocketServer.cpp" -o
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"
compiled in (0:00.10)

SocketServer: 1 file(s) built in (0:00.10), 104 msecs / file, duration = 113 msecs

There were errors. (0:00.11)

Using built-in specs.
COLLECT_GCC=gcc
COLLECT_LTO_WRAPPER=/usr/libexec/gcc/x86_64-redhat-linux/4.8.5/lto-wrapper
Target: x86_64-redhat-linux
Configured with: ../configure --prefix=/usr --mandir=/usr/share/man --infodir=/usr/share/info
--with-bugurl=http://bugzilla.redhat.com/bugzilla --enable-bootstrap --enable-shared
--enable-threads=posix --enable-checking=release --with-system-zlib --enable-__cxa_atexit
--disable-libunwind-exceptions --enable-gnu-unique-object --enable-linker-build-id
--with-linker-hash-style=gnu --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto
--enable-plugin --enable-initfini-array --disable-libgcj
--with-isl=/builddir/build/BUILD/gcc-4.8.5-20150702/obj-x86_64-redhat-linux/isl-install
--with-cloog=/builddir/build/BUILD/gcc-4.8.5-20150702/obj-x86_64-redhat-linux/cloog-install
--enable-gnu-indirect-function --with-tune=generic --with-arch_32=x86-64
--build=x86_64-redhat-linux
Thread model: posix
gcc version 4.8.5 20150623 (Red Hat 4.8.5-11) (GCC)

This is a SIMILAR ERROR I HAVE GOT BEFORE IN THE BEGINING OF THIS THREAD! It appears that GCC.bm needs to be modified to recognize INCLUDE /root/upp/uppsrc. Do you have any more hints?

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Thu, 29 Dec 2016 20:14:16 GMT
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Hello Amrein-Marie,
In your suggestion, you have a typo and the path umk/ is missed out.
~/.upp/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer
The correct path would be:
~/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o &
In the /root/upp/GCC.bm, I have included the path /root/upp/uppsrc; as follows:
INCLUDE = "/root/upp/uppsrc;/usr/include/freetype2;..."
With this changes, I could come forward and the compilation with debugging began! This ended up with an exit = 1 with following debugging output:

```
  Inline assembly: /root/upp/reference
  Output directory: /root/.upp/umk/_out
  Main package: /root/upp/reference/SocketServer/SocketServer.upp
  Build method: /root/upp/GCC.bm
  Cleaning SocketServer
  Cleaning Core
  Cleaning Web
  ...done
  ----- Core ( GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX ) (1 / 3)
  cd /root/upp/reference/Core
  ----- Web ( GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX ) (2 / 3)
  cd /root/upp/reference/Web
  ----- SocketServer ( MAIN GCC DEBUG SHARED DEBUG_FULL BLITZ LINUX POSIX ) (3 / 3)
  cd /root/upp/reference/SocketServer
  SocketServer.cpp
  g++ -c  -I"/root/upp/reference" -I"/root/upp/uppsrc" -I"/usr/include/freetype2"
-I"/usr/include/gtk-2.0" -I"/usr/lib64/gtk-2.0/include" -I"/usr/include/atk-1.0" -I"/usr/include/cairo"
-I"/usr/include/gdk-pixbuf-2.0" -I"/usr/include/pango-1.0" -I"/usr/include/glib-2.0"
-I"/usr/lib64/glib-2.0/include" -I"/usr/include/pixman-1" -I"/usr/include/libpng15"
-I"/usr/include/libdrm" -I"/usr/include/harfbuzz"
-I"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared" -DflagMAIN
-DflagGCC -DflagDEBUG -DflagSHARED -DflagDEBUG_FULL -DflagBLITZ -DflagLINUX
-DflagPOSIX -ggdb -g2  -fexceptions -D_DEBUG -O0 -x c++
"/root/upp/reference/SocketServer/SocketServer.cpp"  -o
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"
  g++ -c  -I"/root/upp/reference" -I"/root/upp/uppsrc" -I"/usr/include/freetype2"
-I"/usr/include/gtk-2.0" -I"/usr/lib64/gtk-2.0/include" -I"/usr/include/atk-1.0" -I"/usr/include/cairo"
-I"/usr/include/gdk-pixbuf-2.0" -I"/usr/include/pango-1.0" -I"/usr/include/glib-2.0"
-I"/usr/lib64/glib-2.0/include" -I"/usr/include/pixman-1" -I"/usr/include/libpng15"
-I"/usr/include/libdrm" -I"/usr/include/harfbuzz"
-I"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared" -DflagMAIN
-DflagGCC -DflagDEBUG -DflagSHARED -DflagDEBUG_FULL -DflagBLITZ -DflagLINUX
-DflagPOSIX -ggdb -g2  -fexceptions -D_DEBUG -O0 -x c++
"/root/upp/reference/SocketServer/SocketServer.cpp"  -o
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"
```

```
  compiled in (0:00.93)
  SocketServer: 1 file(s) built in (0:00.93), 939 msecs / file, duration = 973 msecs
  Linking...
  g++ -o "/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer"
-ggdb -Wl,-O,2
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"
-Wl,--start-group  -Wl,--end-group
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `main':
  /root/upp/reference/SocketServer/SocketServer.cpp:5: undefined reference to
`Upp::AppInit__(int, char const**, char const**)'
  /root/upp/reference/SocketServer/SocketServer.cpp:5: undefined reference to
`Upp::AppExecute__(void (*)())'
  /root/upp/reference/SocketServer/SocketServer.cpp:5: undefined reference to `Upp::AppExit__()'
  /root/upp/reference/SocketServer/SocketServer.cpp:5: undefined reference to
`Upp::GetExitCode()'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `ConsoleMainFn_()':
  /root/upp/reference/SocketServer/SocketServer.cpp:7: undefined reference to
`Upp::TcpSocket::TcpSocket()'
  /root/upp/reference/SocketServer/SocketServer.cpp:8: undefined reference to
`Upp::TcpSocket::Listen(int, int, bool, bool, void*)'
  /root/upp/reference/SocketServer/SocketServer.cpp:9: undefined reference to `Upp::Cout()'
  /root/upp/reference/SocketServer/SocketServer.cpp:10: undefined reference to
`Upp::SetExitCode(int)'
  /root/upp/reference/SocketServer/SocketServer.cpp:13: undefined reference to `Upp::Cout()'
  /root/upp/reference/SocketServer/SocketServer.cpp:15: undefined reference to
`Upp::TcpSocket::TcpSocket()'
  /root/upp/reference/SocketServer/SocketServer.cpp:16: undefined reference to
`Upp::TcpSocket::Accept(Upp::TcpSocket&)'
  /root/upp/reference/SocketServer/SocketServer.cpp:17: undefined reference to
`Upp::TcpSocket::GetLine(int)'
  /root/upp/reference/SocketServer/SocketServer.cpp:18: undefined reference to
`Upp::TcpSocket::GetPeerAddr() const'
  /root/upp/reference/SocketServer/SocketServer.cpp:18: undefined reference to `Upp::Cout()'
  /root/upp/reference/SocketServer/SocketServer.cpp:20: undefined reference to
`Upp::GetSysTime()'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `String':
  /root/upp/uppsrc/Core/AString.hpp:305: undefined reference to `Upp::String0::Set0(char const*,
int)'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `__static_initialization_and_destruction_0':
  /root/upp/uppsrc/Core/Core.h:337: undefined reference to `MemDiagCls::MemDiagCls()'
  /root/upp/uppsrc/Core/Core.h:337: undefined reference to `MemDiagCls::~MemDiagCls()'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `Upp::String0::Free()':
  /root/upp/uppsrc/Core/String.h:236: undefined reference to `Upp::String0::LFree()'
```

```
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `Upp::String Upp::AsString<Upp::Time>(Upp::Time const&)':
  /root/upp/uppsrc/Core/TimeDate.h:157: undefined reference to `Upp::Format(Upp::Time, bool)'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `Upp::Stream::Put(void const*, int)':
  /root/upp/uppsrc/Core/Stream.h:91: undefined reference to `Upp::AssertFailed(char const*, int,
char const*)'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `Upp::operator<<(Upp::Stream&, char const*)':
  /root/upp/uppsrc/Core/Stream.h:624: undefined reference to `Upp::Stream::Put(char const*)'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `Upp::String Upp::AsString<int>(int const&)':
  /root/upp/uppsrc/Core/Format.h:28: undefined reference to `Upp::FormatInteger(int)'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `Upp::TcpSocket::Put(Upp::String const&)':
  /root/upp/uppsrc/Core/Inet.h:228: undefined reference to `Upp::TcpSocket::Put(void const*, int)'
  /root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: In
function `Upp::TcpSocket::~TcpSocket()':
  /root/upp/uppsrc/Core/Inet.h:254: undefined reference to `Upp::TcpSocket::Close()'
  /root/upp/uppsrc/Core/Inet.h:254: undefined reference to `Upp::Callback::~Callback()'
  /root/upp/uppsrc/Core/Inet.h:254: undefined reference to `Upp::Callback::~Callback()'
  collect2: error: ld returned 1 exit status
  g++ -o "/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer"
-ggdb -Wl,-O,2
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"
-Wl,--start-group  -Wl,--end-group
  Error executing g++ -o
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer" -ggdb
-Wl,-O,2
"/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o"
-Wl,--start-group  -Wl,--end-group
  Exitcode: 1

  There were errors. (0:01.03)
```

Thereafter I executed the following:

```
~/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o


/root/.upp/umk/_out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer.o: ELF
64-bit LSB relocatable, x86-64, version 1 (SYSV), not stripped


      not a dynamic executable
```

Because the binary is wrongly compiled, it cannot be executed.

Any further suggestions?

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Thu, 29 Dec 2016 20:24:24 GMT
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Posted following link for information purposes:

How can I get information about a binary file that won't execute?

http://serverfault.com/questions/730922/how-can-i-get-information-about-a-binary-file-that-wont-execute

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 22:21:41 GMT
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This is not an executable but an object file.

What is missing: var files describing all assemblies. They are created when you start theide and also by doinstall. You don't use theide so they are not there yet.

Let do this from a clean install shall we.
First, let remove ~/upp and ~/.upp

```
rm -fr ~/upp
rm -fr ~/.upp
```

Then:

```
# Do the same thing as before
cp -r /usr/share/upp ~/
mkdir -p ~/.upp/theide
cp /usr/share/upp/GCC.bm ~/.upp/theide/
cd ~/upp/

# but also create those var files

echo -e "UPP = \"$HOME/upp/uppsrc\"\nOUTPUT = \"$HOME/upp.out\"" >
~/.upp/theide/uppsrc.var
echo -e "UPP = \"$HOME/upp/examples;$HOME/upp/uppsrc\"\nOUTPUT = \"$HOME/upp.out\"" >
~/.upp/theide/examples.var
echo -e "UPP = \"$HOME/upp/reference;$HOME/upp/uppsrc\"\nOUTPUT = \"$HOME/upp.out\"" >
~/.upp/theide/reference.var
echo -e "UPP = \"$HOME/upp/tutorial;$HOME/upp/uppsrc\"\nOUTPUT = \"$HOME/upp.out\"" >
~/.upp/theide/tutorial.var
```

```
echo -e "UPP = \"$HOME/upp/bazaar;$HOME/upp/uppsrc\"\nOUTPUT = \"$HOME/upp.out\"" >
~/.upp/theide/examples-bazaar.var

echo -e "UPP = \"$HOME/MyApps;$HOME/upp/uppsrc\"\nOUTPUT = \"$HOME/upp.out\"" >
~/.upp/theide/MyApps.var

echo -e "UPP = \"$HOME/MyApps;$HOME/upp/bazaar;$HOME/upp/uppsrc\"\nOUTPUT =
\"$HOME/upp.out\"" > ~/.upp/theide/MyApps-bazaar.var

# Build SocketServer

umk reference SocketServer GCC -absv

# Run, test and kill the server

~/upp.out/SocketServer/GCC.Debug.Debug_Full.Main.Shared/SocketServer &

echo time | nc localhost 3214

killall SocketServer
```

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 22:28:44 GMT
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I should add that you are still login as root. It's really a bad habit from Windows and you should login as a regular user.
Someday you will run a command line like the following one, by mistake, and it will remove all your files (even your windows files if your windows partitions are mounted somewhere):

```
rm -fr ~ /
```

So be careful and login with a standard user account. Use "su" or "sudo" to get root privileges.

Subject: Re: [fatal error:] on Centos 7
Posted by Klugier on Thu, 29 Dec 2016 22:29:05 GMT
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Hello,

I don't know it doesn't netter, but there is a lack of c++11 flag for gcc in upp.spec file. It should be added (line 169):

COMMON_CPP_OPTIONS = "-std=c++11";

Sincerely,
Klugier

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 29 Dec 2016 22:40:35 GMT
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Hi Klugier

With of without this flag, it will compile on Centos.
I don't know if this flag is mandatory. It just won't work on old distro when their gcc version doesn't support c++11.
If Mirek asks me to add it into the spec file, I will.

I already added this line in CLANG.bm because clang++ compiler support c++11 in every Linux distributions.
I know this flag is important when working on Upp source because Upp must be c++11 compatible.

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Fri, 30 Dec 2016 01:35:14 GMT
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Hello Amrein-Marie,

Thanks for giving me solution. Everything works fine and the binary can compile without problem. I have created a bash script to do this work. Thus, I could and will be able to repeat the boring work of writing commands.

I do think that there should be a much better possibility to work with this. There should be an installer which may be developed and modified with new versions. Only then new comers could have an instant start and problems may not be repeated. Alternatively speaking, some problems and time consuming task could be eradicated before.

I have added the c+11 option in GCC.bm file. It can compile with and without. I can make a debug and release as well.

Quote:
Someday you will run a command line like the following one, by mistake, and it will remove all your files...
Thats the last problem, in my case! Lets say if this happens, that so what? Gone are the days

when I was so dramatically scared to work with servers. I have faced nightmares working with Redhat v3 in 1996/1997. We have a different technology available today.

I can restore the entire server with one single click from many images lying on my cloud hosting account. I can also make a backup of my server in Singapore or Los Angeles or Frankfurt, or vise versa and install it in other locations. These servers have identical setup.
The working scripts, etc. I have remains, as a master, on my workstation. A copy is uploaded on my server for playing and experimenting. With one click I upload it and I should be there, where I was before I may have issued a ridiculous command.

But if I do not login as root, then I have to write so many alphabets extra, you know! I need to keep on login, etc., changing permissions, etc... All a headache.
Being a lazy person fighting against the Time Monster, I fine is easier to login as root.
BTW, such a mistake has occurred _NOT_EVEN_ONCE_ in the last 20 years of my Linux administration!

Apart from that, I wonder if you could make FPM packages, as I suggested in my earlier thread. That will help all. Since you have such a lot of experience in this area, making FPM would be wonderful.

My next exercise is to make a proxy transfer of data from a remote server on Windows workstation to SocketServer on Centos, and execute commands there, etc. For this, I am now really scared to invest more time with this forked and terrible difficult, but lovely, U++.

I wish you all - the users of U++ community - nice holidays and a happy start of the new year...

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Fri, 30 Dec 2016 03:56:58 GMT
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Klugier, I followed your advice and added the cpp option line inside GCC.bm.

COMMON_CPP_OPTIONS = "-std=c++11";

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Fri, 30 Dec 2016 04:39:12 GMT
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The best automatic distribution package builder I know of is The Open Build Service (OBS) from OpenSuse Linux. It's a generic system to build and distribute binary packages from sources in "an automatic, consistent and reproducible way" and for different Linux distributions.

http://openbuildservice.org/about/

https://en.opensuse.org/openSUSE:Build_Service

Automatic upp building is out of my scope but perhaps in the future...

Subject: Re: [fatal error:] on Centos 7
Posted by Klugier on Sun, 01 Jan 2017 14:28:42 GMT
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Hello amrein,

I see you did a lot of work to restore our RPM infrastructure. Would you kindly to update following documentation page http://www.ultimatepp.org/www$uppweb$uppx11$en-us.html. The documentation side can be found in uppbox directory inside upp repository. You should have appropriate privileges to do this.

As MrSarup noticed we need to improve our documentation. The other thing is problem with compilation on RPM base distribution - I will create tick for this to not forget about this before release.

Sincerely,
Klugier

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Sun, 01 Jan 2017 18:03:46 GMT
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Hello Klugier,
Klugier wrote on Sun, 01 January 2017 15:28
I see you did a lot of work to restore our RPM infrastructure. Would you kindly to update following documentation page http://www.ultimatepp.org/www$uppweb$uppx11$en-us.html.

Had Mr. Amrein-Marie not taken the issue on board, then there was ZERO CHANCE to compile even the tiniest two line of code of the SocketServer.cpp, specifically looking at the documentation and forum messages. So yes, you are perfectly right. Docs is the first place to begin.

Further, I also suggest to add download of rpm, which Mr. Amrein-Marie has created. What's wrong in providing it (because it is there) until a next stable one is out. Well, it should be made available under the tested platform Centos 7 and Fedora.

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Sun, 01 Jan 2017 19:08:56 GMT

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Hi Klugier

I tried but failed to edit that file "trunk/uppbox/uppweb/www.tpp/uppx11$en-us.tpp" with TheIde. Perhaps another day when I will want to get back to it.

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Mon, 02 Jan 2017 14:55:58 GMT
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If someone know how to edit this file, please tell me.

Subject: Re: [fatal error:] on Centos 7
Posted by MrSarup on Mon, 02 Jan 2017 17:42:58 GMT
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Hello Amrein,
amrein wrote on Mon, 02 January 2017 15:55If someone know how to edit this file, please tell me.
http://www.ultimatepp.org/appideTopic$en-us.html
Technical background
All *.tpp files are internally just a text file in QTF format (U++ specific rich formatted text format).
Last edit by klugier on 07/16/2016.

From above, it appears that it is a simple ASCI file.

Then, if this assumption is true, you could simply rename it to rtf and edit it on windows with any rich text editor.

Subject: Re: [fatal error:] on Centos 7
Posted by Klugier on Mon, 02 Jan 2017 20:29:03 GMT
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Hello,

It shouldn't be, so hard - or you have degenrated TheIDe. Here is my simply tutorial - setup uppbox as regular assembly with - here is my setup (/home/klugier/upp/uppbox;/home/klugier/upp/uppsrc).

All you need to do is just select following package inside TheIDE:

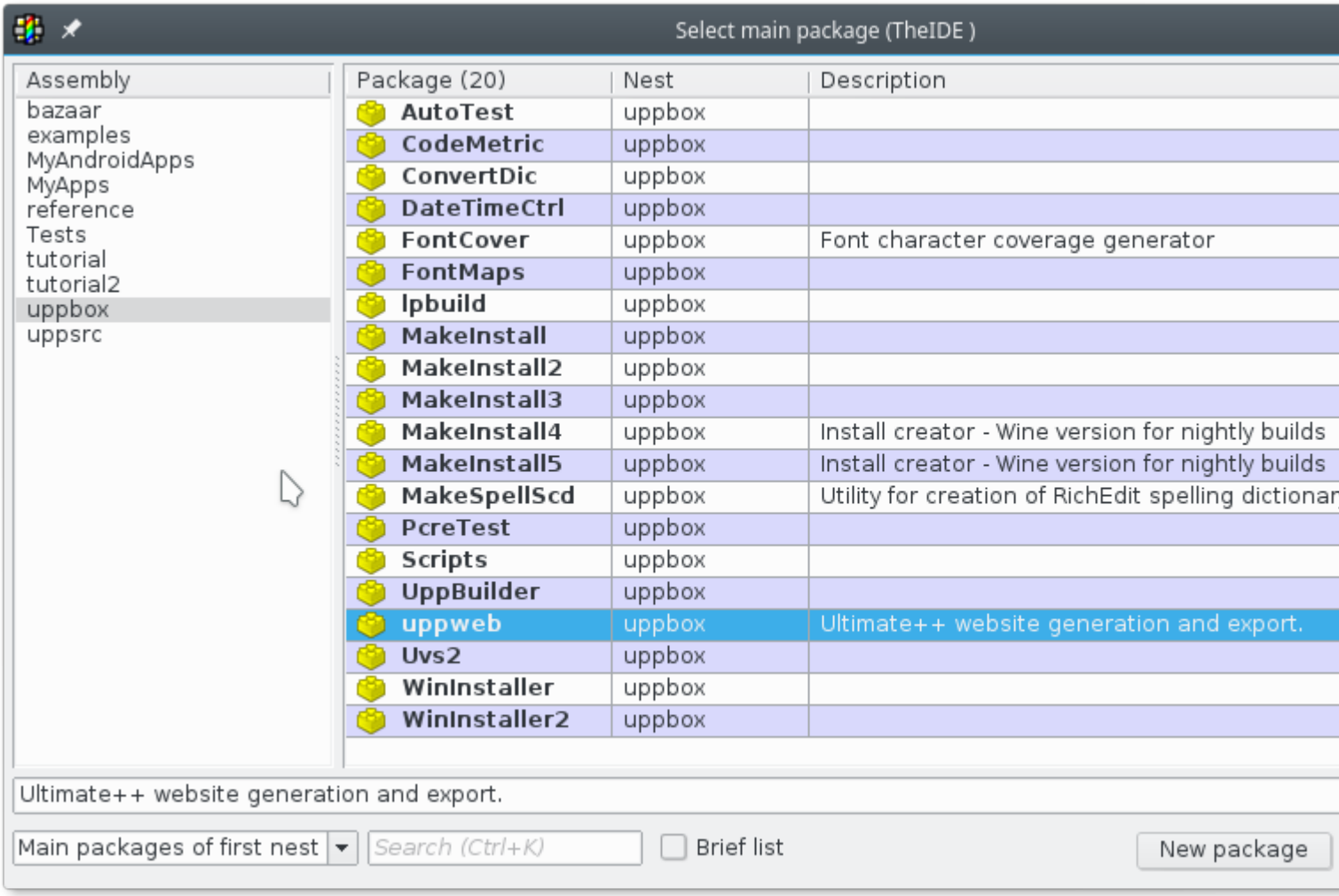
Then you need to find this file and edit it with topic designer - should happens automatically when you select file:

Please do not edit .tpp file manually - it can lead to problems with file.

Sincerely,
Klugier

File Attachments

1) Screenshot_20170102_212444.png, downloaded 1302 times



Subject: Re: [fatal error:] on Centos 7
Posted by Klugier on Mon, 02 Jan 2017 20:31:22 GMT
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Hello,

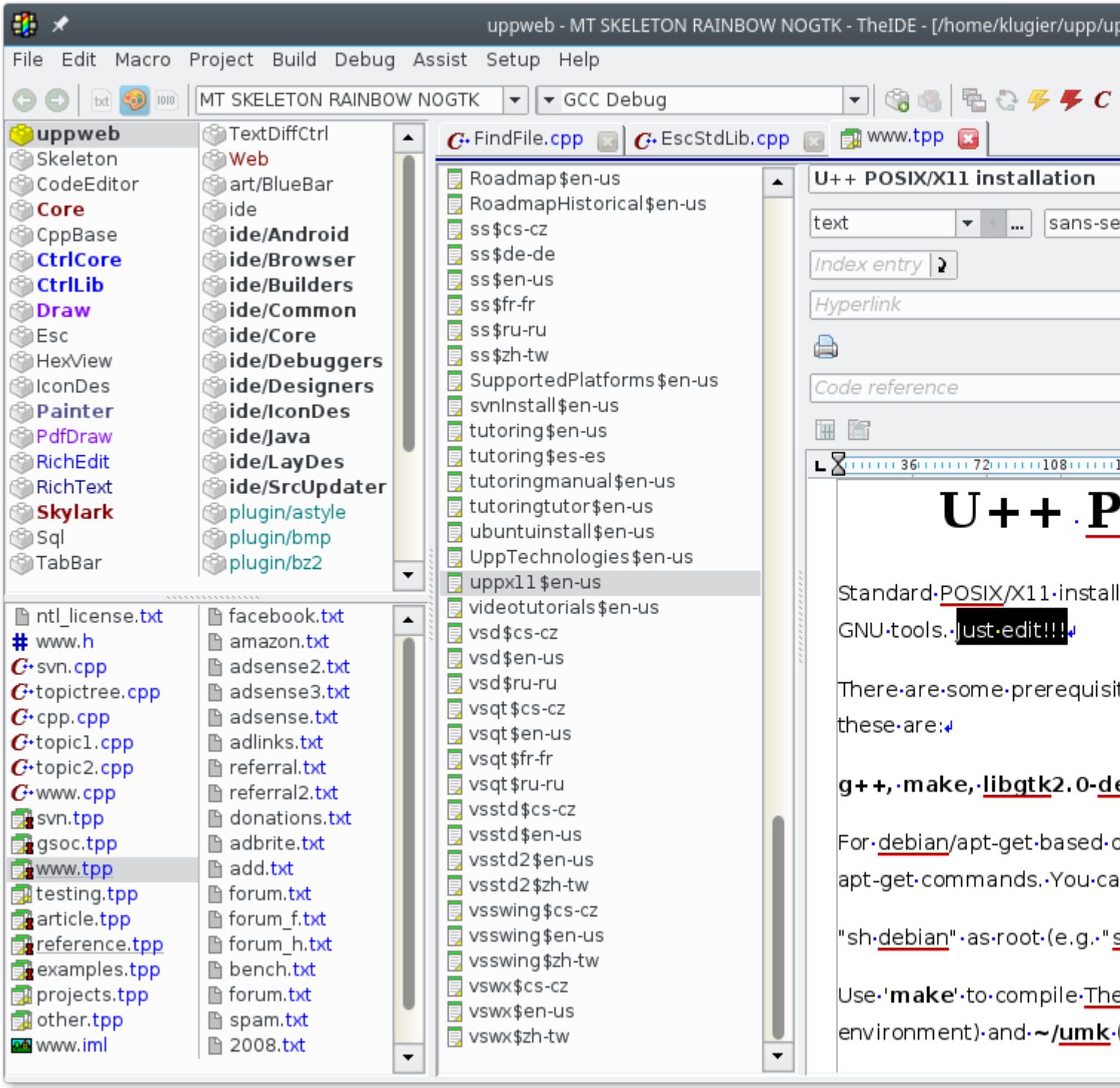
The file edition mode (inside TheIDE):

If the way I posted here and in above post - please past your documentation text and I will update file. But, I believe that we manage to solve your problems.

Sincerely,
Klugier

File Attachments

1) Screenshot_20170102_212547.png, downloaded 1272 times



Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Tue, 03 Jan 2017 09:08:49 GMT
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Thank you.

Done.

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Tue, 03 Jan 2017 09:10:41 GMT
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Editing that file changed 'all.i' too so I discarded 'all.i' changes (too suspicious).
I guess this is ok.

Subject: Re: [fatal error:] on Centos 7
Posted by amrein on Thu, 05 Jan 2017 10:02:37 GMT
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I created a better version of the POSIX/X11 installation documentation :
http://www.ultimatepp.org/www$uppweb$uppx11$en-us.html
Please tell me if you see something wrong. It will be online tomorrow I guess (tomorrow = 2017-01-05).