Subject: Testers wanted for new .deb packages
Posted by dolik.rce on Wed, 21 Mar 2012 11:33:38 GMT

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Hi everyone!

After rather long time, I'm finally closing in to my goal of having new, better packaging for Ubuntu and Debian. Unfortunately I don't have any of those systems installed, so I would like to ask all the good people around the forum who are adventurous enough to try untested packages

So if you are Ubuntu user, there are packages for Lucid, Maverick, Natty, Oneiric and Precise available in my testing PPA on Launchpad.

If you happen to use Debian, there are packages for Wheezy and Sid available for download from my dropbox.

All of these packages should be updated every night. As soon as I'm sure everything works as intended I'll start to move the infrastructure to the U++ servers and the packages will be uploaded into the "more official" locations.

Thanks in advance for any feedback you can give me

Best regards,
Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Mon, 26 Mar 2012 16:09:37 GMT

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Just saw it.

What am I expected to do to test the package? I am eager to be of any help

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Mon, 26 Mar 2012 20:21:44 GMT

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Lance wrote on Mon, 26 March 2012 18:09Just saw it.

What am I expected to do to test the package? I am eager to be of any help
Hi Lance,

Just try to install the package and use it as usually. If there are some problems, you will see them soon If that happens, report the troubles here or contact me directly.

If you are using ubuntu, you can just change the PPA address in /etc/apt/sources.list (or sources.list.d/...) to point to "ppa:dolik-rce/uppnightly" (yes, it is really without the "-", it's the testing repository).

If you have debian, you will just have to download the packages and install them manually using "dpkg -i", gdebi or something similar. Later on, I'll try to create proper debian repository, but right now it is not priority.

Thanks for help,
Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Mon, 26 Mar 2012 21:05:47 GMT
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OK. I will.

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Tue, 27 Mar 2012 14:00:57 GMT
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environment: ubuntu-oneric-amd64 theide version 4714

Trying to access Package Organizer results in TheIde crashes.

Eg: open the AddressBook from examples assembly, right click on "AddressBook" in the workspace area, select "Package Organizer" in the popup menu, theide crashes with error message "Fatal Error - Invalid memory access!".

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Tue, 27 Mar 2012 14:19:54 GMT
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Not sure if I should report these, but:

The following lines need to be revised to make g++-4.5 (?) happy.

1. CtrlLib/DateTimeCtrl.h

...
template<class T>
class DateTimeCtrl : public T {
 MultiButtonFrame drop;

```
  CalendarClock cc;
...

 void OnDrop() {
  if(!this->IsEditable())
   return;

  Size sz = cc.GetCalendarClockSize();

  int width = sz.cx;
  int height = sz.cy;

  //Rect rw = Ctrl::GetWorkArea();
  Rect rw = this->Ctrl::GetWorkArea();

          // Note: I have to add this-> to satisfy the compiler.
...
```

2. CtrlLib/ArrayCtrl.cpp

```
String ArrayCtrl::AsCsv(bool sel, int sep, bool hdr)
{
 //char h[2] = { sep, 0 };  // [ -fpermissive]
 char h[2] = { (char)sep, 0 };
      ...
}
```

3. Core/Util.cpp

```
String Decode64(const String& s)
{
...
 for(;;)
 {
  byte ea = *p++ - ' ' - 1, eb = *p++ - ' ' - 1, ec = *p++ - ' ' - 1, ed = *p++ - ' ' - 1;
  //byte out[3] = { (ea << 2) | (eb >> 4), (eb << 4) | (ec >> 2), (ec << 6) | (ed >> 0) }; // same
-fpermissive
  byte out[3] = { byte((ea << 2) | (eb >> 4)), byte((eb << 4) | (ec >> 2)), byte((ec << 6) | (ed >> 0)) };

....
```

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Tue, 27 Mar 2012 16:17:47 GMT

Lance wrote on Tue, 27 March 2012 16:00environment: ubuntu-oneric-amd64 theide version 4714

Trying to access Package Organizer results in TheIde crashes.

Eg: open the AddressBook from examples assembly, right click on "AddressBook" in the workspace area, select "Package Organizer" in the popup menu, theide crashes with error message "Fatal Error - Invalid memory access!".

Seems like I will have to install Ubuntu after all I'll try to build packages with debugging symbols and investigate. Right now I think it could be either caused by something specific in the ubuntu environment or by some difference in the build process caused by the new makefile.

I'm not sure about the errors in the sources... I've been using gcc 4.5 for a long time without any apparent troubles. Also launchpad used gcc 4.5.2 to compile theide for the natty packages without complaints, not even warning. Are you using some unusual compiler flags? Perhaps you could post a verbose output from the compiler compiling these files, including the command line.

Anyway, thanks a lot for your help Lance

Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Wed, 28 Mar 2012 03:31:24 GMT

You are very welcome!

Sorry I was wrong. The g++ I used was g++-4.6.

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Wed, 28 Mar 2012 05:49:20 GMT

Lance wrote on Wed, 28 March 2012 05:31You are very welcome!

Sorry I was wrong. The g++ I used was g++-4.6.
Doesn't change much 4.6 is used for compilation in Oneiric on launchpad and it worked too...

Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Tom1 on Wed, 28 Mar 2012 12:27:52 GMT
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Hi,

I can confirm the same problem on Kubuntu Oneiric-i386.

Best regards,

Tom

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Wed, 28 Mar 2012 12:28:47 GMT
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Here is my gcc build method, no fancy compilation flags are discovered:

```
File Attachments
1) theidegccbuildmethod.png, downloaded 882 times
```

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Wed, 28 Mar 2012 12:31:56 GMT
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The I restored upp src (local backup) to the original state, open AddressXML, F5 to build, and here is the first error message I encountered:

```
File Attachments
1) source3.png, downloaded 814 times
```

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Wed, 28 Mar 2012 12:59:53 GMT
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One more issue. Not sure if it's because my system only.

Every time I F5 to run a program, it will not close cleanly after I close the main window; at least
TheIde believes it's still debugging the program. I have to use Debug/Stop debugging menu to fix

it.

Tom1, does this happen to you too?

Subject: Re: Testers wanted for new .deb packages
Posted by Tom1 on Wed, 28 Mar 2012 14:15:18 GMT
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Quote:One more issue. Not sure if it's because my system only.

Every time I F5 to run a program, it will not close cleanly after I close the main window; at least TheIde believes it's still debugging the program. I have to use Debug/Stop debugging menu to fix it.

Tom1, does this happen to you too?
Yes, it does. I just can't remember if it was like this before too. (I usually use 'Optimal' and Ctrl+F5 on Linux. I do my day-to-day coding on Win7, so on Linux I'm just making sure my software compiles and runs there too.)

Best regards,

Tom

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Thu, 29 Mar 2012 13:27:02 GMT
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Hi guys,

Thanks for the details. I finally managed to get ubuntu installed in virtualbox (took me one and a half days) and found out even more problems. The setup wizard places the sources a little weirdly, some sources are missing and few other less important misfeatures. So I guess I still have some work to do

Honza

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Fri, 30 Mar 2012 12:03:37 GMT
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Lance wrote on Wed, 28 March 2012 14:28Here is my gcc build method, no fancy compilation flags are discovered:

Hi Lance,

There is one fancy option in your setup The "-std=c++0x" is the culprit. Without it, I can compile just fine, with it I get the same error as you. I put this issue to the redmine (http://www.ultimatepp.org/redmine/issues/269) and hopefully Mirek will fix it soon.

At least this was not related to the packaging I fixed the problem with the problem with missing sources already, so the last major problem is the invalid memory access when opening package organizer. I'll try to sort that out over the weekend.

Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Fri, 30 Mar 2012 12:24:22 GMT
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Oh I see.

The "Invalid memory access" issue is very important. Without it I can barely do anything meaningful in Ubuntu with TheIDE.

I will upgrade as soon as one is available and do more testing.

Thanks for your effort, Honza!

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Fri, 30 Mar 2012 13:44:21 GMT
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Lance wrote on Fri, 30 March 2012 14:24I will upgrade as soon as one is available and do more testing.
I just submitted a package to launchpad which should build theide with debugging symbols (if I didn't make any mistakes), so it should be possible to debug. If you want to try it, just look for theide version 4727-2dbg~oneiric0 in the same PPA as before. It should be ready in couple hours at most. I probably won't be anywhere near computer till tomorrow, so if you happen to find the reason of the problem, leave a message here

Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Sat, 31 Mar 2012 12:59:18 GMT
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I never debugged without the source but I will give it a try. Hopefully I can spend a couple of hours on it today.

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Sat, 31 Mar 2012 13:28:00 GMT
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There are package conflicts that I don't know how to fix.

File Attachments
1) Screenshot at 2012-03-31 09:23:51.png, downloaded 798 times

---

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Sat, 31 Mar 2012 14:06:47 GMT
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Lance wrote on Sat, 31 March 2012 15:28There are package conflicts that I don't know how to fix.Hi Lance,
That doesn't error even doesn't look like an error, the versions appear correct to me... Anyway, I still haven't manage to force launchpad to build the package with the debugging symbols, it still strips it away, rendering it useless for debugging. And by the way, you have the sources for theide, you'd just need to tell gdb where to look. It should work if you just type in command "directory /usr/share/upp/uppsrc" or something like that.

I'll let you know as soon as I convince launchpad to build the packages the way we need

Thanks for all the help,
Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Sat, 31 Mar 2012 14:34:59 GMT
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Hi Honza:

You're very welcome! It's a very rewarding learning experience for me, so please don't hesitate to ask me if you think I could be of any help.

Thanks,
Lance

Subject: Re: Testers wanted for new .deb packages
Posted by Tom1 on Sun, 01 Apr 2012 10:02:53 GMT

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Hi Honza,

It turned out custom build step: post-link step does not get $(OUTPATH) parameter at all. It used to work at least with 4193.

Also, the 4730-oneiric-i386 still seems to have the package manager crash.

Best regards,

Tom

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Mon, 02 Apr 2012 08:39:31 GMT

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Finally, I have managed to properly build the package with theide debug symbols. It took me two days and 11 tries to notice that "-Wl,-s" that cause the symbols being stripped when linking

So anyone willing to debug theide from the testing repository can now install pacakge theide-dbg in version >=4730-11dbg~oneiric0. After that, running "gdb theide" should automatically pick up the symbols located in /usr/lib/debug/usr/bin/theide. If you want to make gdb also show source, just execute e.g. "directory /usr/share/upp/uppsrc/Core" in gdb prompt to let it access Core sources.

Now I'll finally try to have a look at the invalid memory access.

Honza

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Mon, 02 Apr 2012 09:36:55 GMT

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Ok, so it seems to be a problem in the new refactored Value. The problem only shows when theide is compiled with the SVO_VALUE flag.

One interesting thing is that it only happens on clean installation. Once I compile the non-SVO_VALUE theide and open package organizer in it, it suddenly works in the SVO_VALUE-enabled version too. I believe it is related to (de)serializing an empty value.

Stack backtrace for reference:Upp::Value::Serialize (this=0xbffdeb14, s=...) at /home/ubuntu/upp/uppsrc/Core/Value.cpp:292

Upp::operator%<Upp::Value> (s=..., x=...) at /home/ubuntu/upp/uppsrc/Core/Stream.h:608
Upp::Ctrl::Serialize (this=0xbffdf2fc, s=...) at /home/ubuntu/upp/uppsrc/CtrlCore/Ctrl.cpp:231
Upp::operator%<UppList> (s=..., x=...) at /home/ubuntu/upp/uppsrc/Core/Stream.h:608
PackageEditor::Serialize (this=0xbffdecac, s=...) at /home/ubuntu/upp/uppsrc/ide/UppDlg.cpp:512
EditPackages (main=0xbffe4d8c "ide", startwith=0xbffe3054 "ide", cfg=...) at
/home/ubuntu/upp/uppsrc/ide/UppDlg.cpp:604
Ide::EditWorkspace (this=0xbffe3fbc) at /home/ubuntu/upp/uppsrc/ide/ide.cpp:199
...

Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Mon, 02 Apr 2012 12:50:31 GMT
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Great!

I haven't been having a usable theide in Ubuntu for quite a while.

I don't know how to use gdb command line tool, so sorry I can not do much here.

Subject: Re: Testers wanted for new .deb packages
Posted by Tom1 on Fri, 06 Apr 2012 20:03:39 GMT
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Well done Honza, It seems package manager is back in action in the fresh 4748-oneiric-i386 deb
build.

Unfortunately, the $(OUTPATH) parameter is still not passed to the post-link step declared in
Custom build steps... however $(PATH) seems to get there with expected contents. (Where can I
find the syntax of this custom build step language?)

Anyway, everything I tried is there now.

Thanks and best regards,

Tom

Subject: Re: Testers wanted for new .deb packages
Posted by dolik.rce on Fri, 06 Apr 2012 21:05:37 GMT
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Tom1 wrote on Fri, 06 April 2012 22:03Well done Honza, It seems package manager is back in
action in the fresh 4748-oneiric-i386 deb build.

Unfortunately, the $(OUTPATH) parameter is still not passed to the post-link step declared in Custom build steps... however $(PATH) seems to get there with expected contents. (Where can I find the syntax of this custom build step language?)

Anyway, everything I tried is there now.

Thanks and best regards,

Tom
Hi Tom,

I'm glad you noticed the new version I did not test it yet, but I believe the bug crashing package organizer should be gone (I deactivated the SVO_VALUE flag for now).

I don't think there is any documentation on the variables in custom build steps. The best place I can point you to is the source: uppsrc/ide/Builders/CppBuilder.cpp:242 or to the pop-up menu in the custom build step dialog, where all variables are described. By looking at the code, I see there's no such variable as OUTPATH. I guess you want to probably use OUTDIR...

By the way, did you try if this new version still has that annoying bug when theide stays in debug even after the debugged program is terminated?

Thanks for your testing,
Honza

Subject: Re: Testers wanted for new .deb packages
Posted by Tom1 on Sat, 07 Apr 2012 07:50:46 GMT
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Hi,

Now I tested the debugging thing, but ide still remains in debugging mode after the debugged program has finished. Shift-F5 is required to get out of debugging mode.

--

As for the OUTPATH, it works in 4193 and gives the full path including filename to the output executable file. As it seems now, PATH gives this same thing and OUTPATH gives nothing... I guess it just has changed since 4193. (The resulting executable filename with full path is the one I need. and it is called PATH now.)

Best regards,

Tom

Subject: Re: Testers wanted for new .deb packages
Posted by mirek on Thu, 19 Apr 2012 08:59:26 GMT

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dolik.rce wrote on Mon, 02 April 2012 05:36Ok, so it seems to be a problem in the new refactored Value. The problem only shows when theide is compiled with the SVO_VALUE flag.

One interesting thing is that it only happens on clean installation. Once I compile the non-SVO_VALUE theide and open package organizer in it, it suddenly works in the SVO_VALUE-enabled version too. I believe it is related to (de)serializing an empty value.

Stack backtrace for reference:Upp::Value::Serialize (this=0xbffdeb14, s=...) at /home/ubuntu/upp/uppsrc/Core/Value.cpp:292

I might have found a culprit, can you check now?

Mirek

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Sat, 21 Apr 2012 02:54:09 GMT

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Works great except the remaining-in-debug-mode-after-program-exit problem.

Some minor issues I encountered when trying to compile and run a project I developed in Windows(MSC) on Ubuntu(g++ 4.6) - might not have anything to do with theide/upp at all.

1. FullScreen sample doesn't run properly in Ubuntu (session type) but fine in Ubuntu 2D (session type);

2. FullScreen different behaviour in multiple main window situation. In Windows, if I uncomment the OpenMain() sentence, it will cause the program to fail (assertion failure? don't quite remember) in debug mode.

```
static FullScreenPos& Get()
{
 if(!pInst)
 {
  pInst=new FullScreenPos;
  pInst->FullScreen();
  //pInst->OpenMain();
 }
 return *pInst;
}
```

But if in Linux, the window will not show if I don't uncomment the sentence.

3. In Ubuntu (session type), this problem doesn't exists, but in Ubuntu 2D (session type, I switched to it because full screen works properly under it), when I do something like this:

```
GUI_APP_MAIN
{
        // code in this block causes problem in Ubuntu 2D
        // LoginDlg is a simple window derived from TopWindow
        // for user authentication
 {
  LoginDlg dlg;
  dlg.Run();
  if(!dlg.OK())
   return;
  gTitle=dlg.userconf.GetValue();
 }


 ShowMainWindow();

 Ctrl::RegisterSystemHotKey(K_F2, callback(ShowFullScreenPos));
 Ctrl::RegisterSystemHotKey(K_F3, callback(ShowMainWindow));

 Ctrl::EventLoop();
}
```

The problem is that after the login dialog (which accepts keyboard input fine), keyboard events have absolutely no effects on the windows opened afterwards. Mouse inputs are not affected. There is one occurrence that this problem appears to be gone. But after I changed something and run again, it comes back again, consistently and persistently.

Sorry if these are off topic.

Subject: Re: Testers wanted for new .deb packages
Posted by Lance on Sat, 21 Apr 2012 03:14:13 GMT
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Update: somehow above-mentioned problem 3 is gone again. No real change to code.

But may I please report another problem. The program now compiles and runs perfect in GCC Debug, but when I try to do it in GCC Speed, I got the following link error:

Linking...
/usr/bin/ld: /usr/lib/gcc/x86_64-linux-gnu/4.6.1/../../../x86_64-linux-gnu/libfreetype.so: undefined reference to symbol 'inflateInit2_
 '
/usr/bin/ld: note: 'inflateInit2_' is defined in DSO
/usr/lib/gcc/x86_64-linux-gnu/4.6.1/../../../x86_64-linux-gnu/libz.so so try addin
 g it to the linker command line
/usr/lib/gcc/x86_64-linux-gnu/4.6.1/../../../x86_64-linux-gnu/libz.so: could not read symbols: Invalid operation
collect2: ld returned 1 exit status

Subject: New Ubuntu nightly packages released
Posted by dolik.rce on Fri, 18 May 2012 04:53:01 GMT
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Hello all,

Starting from todays version 4965, the new (hopefully better) .deb packages are available in the upp-nightly PPA. The packages are build for the five latest versions: Lucid Lynx, Maverick Meerkat, Natty Narwhal, Oneiric Ocelot and Precise Pangolin.

As always, if you notice any weird behavior that might be related to the packaging, please let me know so I can check it and fix it.

Best regards,
Honza

PS: The testing repository (dolik-rce/uppnightly) that some of you might have used for testing was deleted. Please switch to upp-nightly.

Subject: Re: New Ubuntu nightly packages released
Posted by Zbych on Fri, 18 May 2012 11:07:49 GMT
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Hi,

I've installed just theide (wthout upp) on clean Ubuntu 12.04 and installer showed some errors:

Configuring build method GCC for g++
/var/lib/dpkg/info/theide.postinst: 22: /var/lib/dpkg/info/theide.postinst: cannot create /usr/share/upp/GCC.bm: Directory nonexistent

Configuring build method GCC4.6 for g++-4.6
/var/lib/dpkg/info/theide.postinst: 22: /var/lib/dpkg/info/theide.postinst: cannot create
/usr/share/upp/GCC4.6.bm: Directory nonexistent

Configuring build method GCC for g++
/var/lib/dpkg/info/theide.postinst: 22: /var/lib/dpkg/info/theide.postinst: cannot create
/usr/share/upp/GCC.bm: Directory nonexistent

E: Sub-process /usr/bin/dpkg returned an error code (1)

errors:

Nie ma takiego pliku ani katalogu - no such file or directory

---

Subject: Re: New Ubuntu nightly packages released
Posted by dolik.rce on Fri, 18 May 2012 12:13:11 GMT
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Zbych wrote on Fri, 18 May 2012 13:07Hi,

I've installed just theide (wthout upp) on clean Ubuntu 12.04 and installer showed some errors:

Configuring build method GCC for g++
/var/lib/dpkg/info/theide.postinst: 22: /var/lib/dpkg/info/theide.postinst: cannot create
/usr/share/upp/GCC.bm: Directory nonexistent

Configuring build method GCC4.6 for g++-4.6
/var/lib/dpkg/info/theide.postinst: 22: /var/lib/dpkg/info/theide.postinst: cannot create
/usr/share/upp/GCC4.6.bm: Directory nonexistent

Configuring build method GCC for g++
/var/lib/dpkg/info/theide.postinst: 22: /var/lib/dpkg/info/theide.postinst: cannot create
/usr/share/upp/GCC.bm: Directory nonexistent

E: Sub-process /usr/bin/dpkg returned an error code (1)

errors:

Nie ma takiego pliku ani katalogu - no such file or directory

Good catch, thanks for reporting. It'll be fixed in tomorrows packages.

Honza

Subject: Re: New Ubuntu nightly packages released
Posted by Lance on Fri, 07 Dec 2012 04:00:04 GMT
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I haven't update upp in Ubuntu for a while. After a recent update, I notice all most all problems reported before are gone:
1. Now I can build gcc optimized;
2. Fullscreen back to normal;
3. Not-responding-to-keyboard problem also fixed;

Only problem remained is the remain-in-debug-mode-after-program-end problem.

Thank you, Honza!
Lance

Subject: Re: New Ubuntu nightly packages released
Posted by dolik.rce on Fri, 07 Dec 2012 06:07:48 GMT
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Lance wrote on Fri, 07 December 2012 05:00I haven't update upp in Ubuntu for a while. After a recent update, I notice all most all problems reported before are gone:
1. Now I can build gcc optimized;
2. Fullscreen back to normal;
3. Not-responding-to-keyboard problem also fixed;
U++ is getting better everyday as the code is continually improved. It has really nothing to do with the packaging

Lance wrote on Fri, 07 December 2012 05:00Only problem remained is the remain-in-debug-mode-after-program-end problem.
Which debugging interface do you use, legacy or the new GDB_MI2? You can find this in Setup->Environment->IDE.

Best regards,
Honza

Subject: Re: New Ubuntu nightly packages released
Posted by Lance on Fri, 07 Dec 2012 23:36:45 GMT

Hi Honza:

Thanks for the reply. It was "legacy", and I changed to "GDB_MIi2(new)" and it works like a charm. Glad I mentioned it. I wouldn't otherwise know there is such an option.

Good to see U++ getting better by day!

Lance