Subject: U++ in Linux repos
Posted by lectus on Tue, 06 Dec 2011 16:18:00 GMT
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I was thinking about U++ popularity and one thing I noticed is that no linux distribution distributes U++ packages.

So, it might be one thing that could make U++ more popular: to have U++ packages at official repos. Not just Ubuntu PPAs and packages here.

The newbie at linux will hardly try to get a package from a website, instead he'll always use apt-get/yum/whatever. Let alone try to build U++ from sources.

Think about it.

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Tue, 06 Dec 2011 17:09:55 GMT
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Hi Lectus,

This idea was here before It is actually still in progress, even though the advances are very slow... I don't have much time lately

I guess it won't hurt to report here and what is the state of things

Concerning .debs: The packaging in its current form stands no chance to get into the repository. The Debian/Ubuntu packaging standard is pretty complex thing (and I learned a lot just by reading it). Also lately I learned a lot by packaging a lot of software at work. So with this new knowledge I want to improve the packaging to fulfill the standard and then try to push it into Debian, which would then propagate the package automatically to Ubuntu and other derivatives.

I also maintain PKGBUILDs for Arch Linux. The situation there is not that important, as Arch Linux is aimed at experienced users, and building the package from AUR (Arch User Repository) is quite simple. Anyway, the packages from AUR can be promoted to community repository (so they become binary packages and don't have to be compiled from sources anymore). The promotion is usually considered when the enough user votes for the package in question. Right now, theide package has 5 votes, the usual threshold is 10, so we are half way there

Best regards,
Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Tue, 11 Mar 2014 14:24:56 GMT

Hi,

I'm just reading this by chance... How is the situation now ?

About Arch Linux, maybe you could give some details (especially a link) on how to vote : I don't use it often and will not search about that, but as I use sometimes, I could vote

And what about rpm based distros derivated from Red Hat (like CentOS, Scientific Linux, Fedora...) ? I'm using more and more Scientific Linux, and probably I'll soon install UPP on it.

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Tue, 11 Mar 2014 18:41:07 GMT

Hi jibe,

jibe wrote on Tue, 11 March 2014 15:24I'm just reading this by chance... How is the situation now ?Right now the best packages can be probably those made in OBS (search forum to learn more). The ones in 'nightly' project are updated several times a month. Repositories are available for various versions of ubuntu and debian, archlinux and experimentally also opensuse.

jibe wrote on Tue, 11 March 2014 15:24About Arch Linux, maybe you could give some details (especially a link) on how to vote : I don't use it often and will not search about that, but as I use sometimes, I could vote
List of the packages is here: https://aur.archlinux.org/packages/?K=U%2B%2B. If you are logged in and click on any of the packages, you will see a link to vote in 'Package actions' box on the right side of the packages page.

jibe wrote on Tue, 11 March 2014 15:24And what about rpm based distros derivated from Red Hat (like CentOS, Scientific Linux, Fedora...) ? I'm using more and more Scientific Linux, and probably I'll soon install UPP on it.As I mentioned above, there are RPMs for opensuse, but they're very experimental I don't (and never did) use any rpm-based distro, so I don't really know what goes where. I could quite easily arrange for the same experimental rpms to be built also for centos, fedora, red hat and/or mandriva (pehaps some other, I don't remember right now). Scientific Linux is heavily based on redhat, so it might work there as well. But without testers and feedback, I can't really move out of the experimental state, for any of those distros. If you want to help, you're more than welcomed

Best regards,
Honza

Subject: Re: U++ in Linux repos

Posted by jibe on Tue, 11 Mar 2014 23:58:37 GMT
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dolik.rce wrote on Tue, 11 March 2014 19:41Scientific Linux is heavily based on redhat, so it might work there as well.
Normally, all that works on CentOS works also on SL. I think that a rpm done for Red Hat will work as well for CentOS and SL, probably also for Fedora. I don't know about Mandriva/Mageia.

dolik.rce wrote on Tue, 11 March 2014 19:41If you want to help, you're more than welcomed Wink I'm seriously lacking time for now, but maybe in one or two months I could help you to make rpms and/or test.

I'll contact you later about that.

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Mon, 24 Mar 2014 20:08:30 GMT
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Hi everyone,

As of today, there are beta-version quality rpm packages of U++, theide and umk for Scientific Linux 6 and also for Fedora 20. Anyone interested in trying them can find them on OBS:
Scientific Linux 6
Fedora 20
It should be possible to add this repository to your system to get automatic updates, by don't ask me how, I never used any of those distros

Any feed back is more than welcomed. As I said, I don't use or know those distributions, so testing by someone who does could make a big difference.

For a full list of currently built supported distributions, see this page on OBS.

Best regards,
Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Mon, 14 Apr 2014 13:09:52 GMT
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Hi,

(nice new forum ! Congratulations and thanks to to all those who worked there !)

I'm back earlier than expected ! Unfortunately, it's because I have something strange happening, about what I'll investigate more and for that, make some tests on various versions, so probably try to install U++ on Scientific Linux.

For now, I have some questions (sorry, I just ask not to waste my time if someone has the answer, but I didn't investigated yet... Some questions may simply result from a lack of research or thinking)

1 - I just recompiled one of my applications with version 7051, without changing anything. It's now freezing and the log shows a heap leak, when it was working well last time I compiled it. I don't know with what UPP version it was, I can only say that it was last March, 2013. Did somebody had a similar problem or knows what could happen ?

2 - The Ubuntu repository has 7051 as last version, when the Nightly Builds tar.gz page gives 7222 (Scientific Linux rpm is also 7222M). Is it normal ?

3 - I'm using Nightly builds (with dolik's Ubuntu repository) for a long time, and I see that the stable version is 5485, November 2012 ! Is it normal ? I think that there had been a lot of interresting and good changes since this time, that could have been added in the stable version !

Well, I think that my first test will be to install UPP on Scientific Linux and see if I have the same problem with the most recent version... This will be the opportunity to test this rpm !

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Mon, 14 Apr 2014 15:46:20 GMT
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Hi jibe,

jibe wrote on Mon, 14 April 2014 15:091 - I just recompiled one of my applications with version 7051, without changing anything. It's now freezing and the log shows a heap leak, when it was working well last time I compiled it. I don't know with what UPP version it was, I can only say that it was last March, 2013. Did somebody had a similar problem or knows what could happen ?Have you tried "Rebuild all" (Bomb icon in theide)? When mixing object files from various versions of U++ weird things can happen. Another reason might be that some libraries on your system were upgraded in the meantime and the newer version causes trouble. But that is not very likely to cause heap leaks...

jibe wrote on Mon, 14 April 2014 15:092 - The Ubuntu repository has 7051 as last version, when the Nightly Builds tar.gz page gives 7222 (Scientific Linux rpm is also 7222M). Is it normal ?That is not normal. Something probably broke in the scripts that upload the packages. I'll have a look at it. You can alternatively use ubuntu packages from OBS...

jibe wrote on Mon, 14 April 2014 15:093 - I'm using Nightly builds (with dolik's Ubuntu repository) for a long time, and I see that the stable version is 5485, November 2012 ! Is it normal ? I think that there had been a lot of interresting and good changes since this time, that could have been added in the stable version !Yes, that is normal. The last "stable release" was 5485. No one is really using those, I guess As it was already described somewhere on the forum, the nightly versions are usually much more stable than the releases...

jibe wrote on Mon, 14 April 2014 15:09Well, I think that my first test will be to install UPP on Scientific Linux and see if I have the same problem with the most recent version... This will be the opportunity to test this rpm !
Ok, let me know how it works. You'll be probably the first one to try

Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Tue, 15 Apr 2014 07:19:18 GMT
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Hi Honza,

Thanks for your answer

dolik.rce wrote on Mon, 14 April 2014 17:46Have you tried "Rebuild all" (Bomb icon in theide)?
Yes, I forgot to say, but I effectively do that each time I update UPP.

dolik.rce wrote on Mon, 14 April 2014 17:46Another reason might be that some libraries on your system were upgraded in the meantime and the newer version causes trouble.
Do you mean some libraries external to UPP ? Yes, there are surely several. If so, this would mean that I had a latent bug that appears now ? I'll investigate this way... But in this case, it's weird that the old application, compiled in March 2013, is working well on my updated system...

dolik.rce wrote on Mon, 14 April 2014 17:46Yes, that is normal. The last "stable release" was 5485. No one is really using those, I guess As it was already described somewhere on the forum, the nightly versions are usually much more stable than the releases...
  Ok, so I must not be afraid to take risks not using the "stable" version !

Maybe you shoud remove this old "stable" version : it is not so good that new people coming to UPP see and could use this old version

dolik.rce wrote on Mon, 14 April 2014 17:46(about Scientific Linux) Ok, let me know how it works. You'll be probably the first one to try Smile
Yes, I'll let you know ASAP, but it will take some more time than expected : I never had time to synchronize my SL with my Ubuntu (I'm using owncloud, and I have problems with the different versions of Mozilla softs), and I'm still mainly using Ubuntu. I'll take this opportunity to make this well first and be able to do anything with either the one or the other...

Subject: Re: U++ in Linux repos
Posted by jibe on Tue, 15 Apr 2014 13:54:24 GMT
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Back to the subject...

I tried to install UPP on Scientific Linux, but there is no theide in your repo !

I could try to use Fedora's rpm or the tarball version, but probably you will prefer that I test the installation from your repo ? So, I'll just wait that you add theide in it.

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Tue, 15 Apr 2014 15:16:23 GMT
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jibe wrote on Tue, 15 April 2014 15:54Back to the subject...

I tried to install UPP on Scientific Linux, but there is no theide in your repo !

I could try to use Fedora's rpm or the tarball version, but probably you will prefer that I test the installation from your repo ? So, I'll just wait that you add theide in it.

Fixed now. It was the weirdest misconfiguration in OBS. All the monitoring screens were showing the package as built and published correctly, while publishing was disabled the whole time

Sorry for delay,
Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Thu, 17 Apr 2014 20:38:54 GMT
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Hi, Honza,

dolik.rce wrote on Tue, 15 April 2014 17:16Sorry for delay
Don't be sorry ! As you see, I'm also very long...

Installation on Scientific Linux and first run OK, but :
1 - There is no version number, neither in the "about" box nor in the box shown when you check updates (Setup->Check for updates).
2 - GCC.bm is missing (neither in the /home/user/.upp folder nor in the /usr/share/upp). I'll try to see tomorrow if I can adapt Ubuntu's one...

<edit>I forgot about SL : theide is not in the gnome menu.</Edit>

On Ubuntu, I have now the right version proposed for update. I'll try it tomorrow.

Thanks for your work, and sorry to be a so slow tester.

Subject: Re: U++ in Linux repos
Posted by jibe on Fri, 20 Jun 2014 14:03:16 GMT
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Hi,

I'm back after some time away...

I tested UPP on :
- Scientific Linux 6 - 32 bits
- Scientific Linux 6 - 64 bits
- CentOS 6 - 32 bits

For the 3 of them, I did :
- Download http://download.opensuse.org/repositories/home:/dolik_rce:/nightly/ScientificLinux_6_standard/home:dolik_rce:nightly.rep o
- Move it in /etc/yum.repos.d
- Install the following packages :
    --- theide
    --- theide-debug
    --- umk
    --- upp-devel
- At this time, yum is asking for some supplementary packages to solve the dependencies. Confirm their installation.
- try it !

As I said before, I had some problems, the same with the 3 distros :
- No "Theide" in gnome's menu. For now, I have to create it by hand or launch it from the terminal.
- The version number is not shown when checking for updates or showing the about box
- GCC.bm is missing. I copied it from my Linux Mint, but be carefull : it's 32/64 bits dependant ! Choose the right one, or change the paths inside.

On each, I tried at least (several more on SL 32) to compile the sample "Animated Hello". It's working well

Thanks dolik.rce !

I'll probably test it on Mageia. I'll let you know.

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Fri, 20 Jun 2014 15:44:40 GMT
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Hi jibe,

Thanks for testing!

jibe wrote on Fri, 20 June 2014 16:03As I said before, I had some problems, the same with the 3 distros :
- No "Theide" in gnome's menu. For now, I have to create it by hand or launch it from the terminal.
- The version number is not shown when checking for updates or showing the about box
- GCC.bm is missing. I copied it from my Linux Mint, but be carefull : it's 32/64 bits dependant ! Choose the right one, or change the paths inside.
I'll try to fix those... It's the little stuff I didn't really cared about when creating the package, as I didn't know if it is going to work at all

Honza

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Sat, 21 Jun 2014 19:26:14 GMT
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Hi jibe,

Can you try now? I tried to fix the problems, but as I don't run any rpm-based distro, I can't really test it - and I'm to lazy to install one right now The packages are ready in the OBS repositories, waiting for you

Let me know if something still doesn't work as supposed or if you find something else that needs to be tweaked...

Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Mon, 23 Jun 2014 09:08:36 GMT
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Hi Honza,

Thanks a lot !

I'll try asap, but a little busy... I'll let you know, I hope during this week (but cannot promise...).

Subject: Re: U++ in Linux repos
Posted by jibe on Mon, 23 Jun 2014 12:59:00 GMT
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Back again : I noticed some differences when compiling one of my applications under Linux Mint and Scientific Linux and wanted to check that better with the very last version. So, I decided to uninstall UPP from my SL 32 bits, and reinstall the new version.

But I have a new problem now : I cannot install theide/upp anymore ! It complains that gtk2-tools is missing, but :
- There is no such package in SL repos neither in rpm-forge or epel,
- Gimp and gtk2 packages are already installed and IMHO should provide all that theide/upp need.
- When I installed last week, I didn't had this problem, and I don't think that anything around gtk has been automatically installed as needed dependancy.

gtk2-tools is needed by theide package. Some problem with the declared dependencies in it's rpm ?

AFAIK gtk2-tools seems more related to open-suse than to red-hat based distros...

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Mon, 23 Jun 2014 14:11:29 GMT
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Oops, this is exactly why I need your help with testing I added the dependency because of gtk-update-icon-cache, which is used in the rpm. The problem is, that it is in gtk2 package in SL and other redhat-based distros, but in SUSE-like distros it is in separate package gtk2-tools. I'll try to fix this ASAP.

Honza

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Wed, 25 Jun 2014 04:38:06 GMT
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Hi jibe!

Can you try it now? I'm sorry the fix took so long, but there was also an error in theide sources so I couldn't start building the packages until yesterday...

Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Wed, 25 Jun 2014 09:30:28 GMT
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Hi Honza,

Install and compil of "Animated hello" ok on SL 32bits.

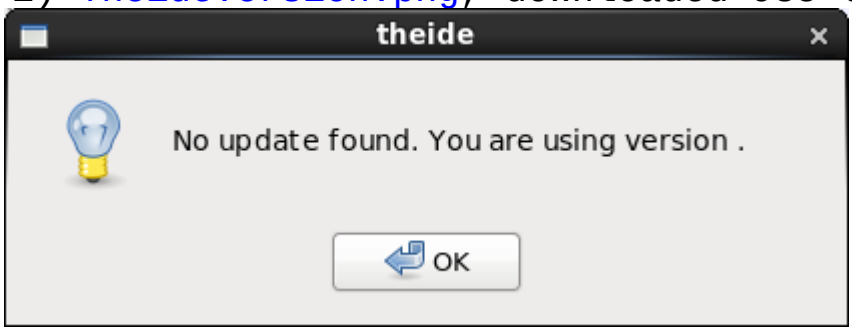
Theide is present in the menu, and GCC.bm well installed now.

But there is still no version number displayed (screen shot joined).

I'm quite busy today, I'll have some more tests tomorrow (other distribs and compils...), but the main part is alredy good.

File Attachments

1) TheideVersion.png, downloaded 935 times



Subject: Re: U++ in Linux repos
Posted by jibe on Thu, 26 Jun 2014 08:51:10 GMT
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Hi Honza,

I tested on CentOS 6 32 bits : working well, just the missing version number as in SL.

On SL 64 bits : Install Ok, but impossible to compile because of a lot of files not found. The reason is in your GCC.bm : on 64 bits versions, you must use /usr/lib64 instead of /usr/lib (/usr/lib is existing, but used only with 32 bits softwares).

I saw also that /usr/X11R6 is mentionned in GCC.bm. This seems to have no importance to compile "Animated Hello" example, but could be a problem with others applications as this folder doesn't exists on CentOS or SL. I don't know for others rpm-based distros.

I'll now try to compile some of my applications on SL 32 bits. I'll let you know if it's Ok or not.

I can continue testing (not promizing to be always fast !) what you want on SL or CentOS. I thought that I could also easily test on Mageia, but unfortunately it's no more working and I should reinstall it. As I don't really need it, I'll reinstall only if you need some tests on it. The same for others rpm-based distros (Fedora, open-suse...).

For next tests, please tell me if I must first uninstall including all config files and re-install (what I did until now) or if I can just make an update (not a problem for me, just to know... and not do useless things)

Subject: Re: U++ in Linux repos
Posted by jibe on Thu, 26 Jun 2014 16:56:04 GMT
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I recompiled several of my own applications on SL 32. Almost all of them seem to work well.

Only one has a problem, the one I already mentioned 2 months ago. As it's not linked to the distro (not working also on Mint Maya), I opened a new topic for that.

So to summarize, it seems to remain only two small problems:
The version number is not displayed in theideGCC.bm file is not good for 64 bits SL and CentOS. (see my previous posts for details)

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Thu, 26 Jun 2014 17:31:40 GMT
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jibe wrote on Thu, 26 June 2014 18:56The version number is not displayed in theide
I did some more tweaking. Right now, with the most recent version (7469-2) from the SL repository, I can see the version string in theide binary when I extract it from the rpm. Can you try to install that version and look at the about box please? No need to remove the configuration files, just upgrade the package. The version should be "7469-ScientificLinux_6_standard-x86_64". I know it's bit long, but I just used the easy way to figure out what distro are we compiling for.

Also, there is should now be correctly set macro IDE_VERSION (to the same value) in ide/version.h, if you have the upp-devel package installed.

jibe wrote on Thu, 26 June 2014 18:56GCC.bm file is not good for 64 bits SL and CentOS.
Can you send me your working version? It would make things much simpler for me, if I don't have to gather all the information about SL6 filesystem from the internet

Quote:I saw also that /usr/X11R6 is mentionned in GCC.bm. This seems to have no importance to compile "Animated Hello" example, but could be a problem with others applications as this folder doesn't exists on CentOS or SL.
Having non-existent directory in build-method is not a problem. They are simply ignored.

Again, thanks a lot for your feedback!

Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Thu, 26 Jun 2014 20:41:38 GMT
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dolik.rce wrote on Thu, 26 June 2014 19:31Can you try to install that version and look at the about box please?
Yes ! Perfect
I attached the images.

dolik.rce wrote on Thu, 26 June 2014 19:31Can you send me your working version? It would make things much simpler for me, if I don't have to gather all the information about SL6 filesystem from the internet Smile
Ooops ! Sorry, I should have thought about that... In fact, I just changed lib to lib64 and removed all concerning X11R6. File attached.

dolik.rce wrote on Thu, 26 June 2014 19:31Having non-existent directory in build-method is not a problem. They are simply ignored.
Yes. I was afraid that it could cause "file not found" errors, but in fact all we need is in the others paths : all the tests of my last post were made on SL 32, with your GCC.bm unchanged.

dolik.rce wrote on Thu, 26 June 2014 19:31thanks a lot for your feedback!
You are welcome! Free software deserves to be involved a little!

Now, we have just to hope that the CERN and Fermilab will use UPP !

By the way, you could ask them to put it in SL repos. I should not surprised that they accept : they are scientists, and have a very different approach of Linux than Mark Shuttleworth

File Attachments

1) files.tar.gz, downloaded 507 times

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Sun, 29 Jun 2014 10:06:05 GMT
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Hi jibe,

I have updated the GCC.bm to contain your changes. It should now work on both architectures.

I don't think this is the right solution in the long term. The file should be generated on the target machine in postinstall hook, or something like that. I'll try to figure that out when I have some more time For now, it should be usable.

I'm glad we could make it work, it's been a great cooperation, thanks

Best regards,
Honza

Subject: Re: U++ in Linux repos

Posted by jibe on Mon, 30 Jun 2014 16:49:59 GMT
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Hi Honza,

Yes, it should be usable this way. What is done for GCC.bm in the .deb versions ? I guess that it will be the same, or just few differences due to the differences between deb and rpm packages ?

It's late now, but I'll try to make a fresh install on 32 and 64 bits tomorrow or some next day to be sure. I'll let you know the result.

For now, thank you for this great job !

Subject: Re: U++ in Linux repos
Posted by dolik.rce on Mon, 30 Jun 2014 19:06:19 GMT
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jibe wrote on Mon, 30 June 2014 18:49What is done for GCC.bm in the .deb versions ? I guess that it will be the same, or just few differences due to the differences between deb and rpm packages ?
The debian package uses the original file from the nightly tarball. It actually contains a 'template' file, GCC.bm.in, which is processed on the system where the package is built. The scripts attempt to figure out correct paths to use. In future, I'd like to use something like that on all systems, but it will have to be a bit more robust.

Honza

Subject: Re: U++ in Linux repos
Posted by jibe on Tue, 01 Jul 2014 10:43:16 GMT
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Hi Honza,

Ok. But for now, the way you did seems usable : I completely uninstalled and re-installed on CentOS 32 bits and Scientific Linux 65 bits, and it works well on both. I compiled successfully Control4U_demo and only noticed this problem, but it appears also in Linux Mint. As all other things are Ok, it's surely a problem in bazaar, not with your rpm.
