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Subject: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [Klugier](#) on Sun, 03 Jun 2018 21:02:35 GMT

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Hello,

I was thinking how to deal with bazaar problem and I found one interesting solution that we can implement to U++ build infrastructure. However, it will require some effort to implement.

The main idea of solving that problem is to provide remote package dependency. The user will be able to specify remote dependencies for his package. For example I want to use MessageCtrl from Oblivion in my package without manually copying it to my project...

```
#include <Remote/Github/Oblivion/MessageCtrl.h> // Should be able to specify GitHub repo directly...
```

```
...
```

```
#include <Remote/Bazaar/plugin/gtest/gtest.h> // Another example of using self hosted bazaar package...
```

Before build U++ can check and download required dependencies to Remote assembly folder that can be hidden in ~/.upp/theide directory. After that U++ is super easy to extend and it will be much more powerful with that feature.

This is the concept, so I would be grateful for any comments.

Sincerely,  
Klugier

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [koldo](#) on Mon, 04 Jun 2018 07:05:17 GMT

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Dear Klugier

I am sorry, could you explain the problem and define the proposal a little bit more?  
Do you mean to convert Bazaar packages into header libraries?

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [Sender Ghost](#) on Mon, 04 Jun 2018 07:29:00 GMT

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Hello Klugier.

I think, the current U++ build system is flexible on assembly and/or nests level without a need to use specific include(s):

Configuring Packages & Assemblies, Packages, Assemblies & Nests.

Klugier wrote on Sun, 03 June 2018 21:02

```
#include <Remote/Github/Oblivion/MessageCtrl.h> // Should be able to specific GitHub repo directly...
```

...

```
#include <Remote/Bazaar/plugin/gtest/gtest.h> // Another example of using self hosted bazaar package...
```

If you meant about <https://github.com/ismail-yilmaz/upp-components> repository, there is some example about how to use MessageCtrl package:

```
https://github.com/ismail-yilmaz/upp-components/blob/66a389c08cec65a655b75bc4f7355646f36f708e/Examples/Messages/main.cpp #L1-L2
```

```
#include <CtrlLib/CtrlLib.h>
#include <MessageCtrl/MessageCtrl.h>
```

I may recommend to create upp-components-examples (or with a different name) assembly with following "Package nests", in this case (based on 39bbba5 commit):

```
path/to/upp-components/Examples;path/to/upp-components/Attic;path/to/upp-components/CtrlLib;
path/to/upp-components/Core;path/to/upp/uppsrc
```

where

path/to/upp-components - is path to cloned <https://github.com/ismail-yilmaz/upp-components> repository

path/to/upp - is path to root of U++ uppsrc directory (also can be cloned from <https://github.com/ultimatepp/mirror> repository)

On the other hand, the concept of so-called downloadable/remote/vendor packages may require versioning (or other, e.g. commit) support to solve possible backward compatibility issue(s) or if some specific version is needed. But this may be unrelated.

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [mr\\_ped](#) on Mon, 04 Jun 2018 07:59:29 GMT

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The proposed "remote" looks to resemble some things like artifactory/etc, where the "remote" packages are locally residing in some hidden directory in some cache.

I prefer to build from sources everything, and if I already have source somewhere, I prefer ordinary common location, like "bazaar", not some temporary cache. Also for important projects I keep all required sources (including framework libraries) in the project git, so I can be sure, that I have everything available even 15 years later, if for whatever reason I will need to rebuild the project (and I will have to fight hard only with the obsolete build tools, not also hunting down some old variants of libraries).

This policy is result of my personal experience, how I got burnt over years with my old work, which is now impossible to restore/update.

I guess the "cache" thingy with remote updates makes sense for binary distribution (like jar/aar/war archives in Java and Android world), but even there we often download the packages separately, and put them into project locally (and into git), so again the project git is self-contained, and doesn't need any remote server to be built. It makes the situation somewhat messy when you need to update the third party libraries often (like they are in development), but for most of the time it works reasonably well.

So I believe your proposal goes exactly in opposite direction ("without manually copy it to my project"), and I'm not interested.

But BTW, if you have the packages like in "bazaar" nest, and you have your apps nest configured to use that for build, you don't need to copy the bazaar package to your project nest, it will build from original bazaar location, so the UPP looks to solve this aspect (no need to copy manually) well.

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [coolman](#) on Tue, 05 Jun 2018 16:19:46 GMT

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Hi all,

I would like solve another problem - how to develop and distribute the application. I've partially solved this problem using the upp\_cmake and git submodules. This works OK for distribution. But developing is a little bit confusing. When I put the directory path of the application to the package nest I can see all packages in nested directories. (The application directory structure can be seen at Rajce album downloader).

Do you have any idea how to see only the application package in the IDE package assembly or how to solve this problem better?

Thanks, Radek

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [Sender Ghost](#) on Tue, 05 Jun 2018 20:20:47 GMT

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Hello Radek.

coolman wrote on Tue, 05 June 2018 16:19Do you have any idea how to see only the application package in the IDE package assembly or how to solve this problem better?

I think, that possible to create some nest directory for Rajce package to solve mentioned issue:

1. (Optional) Create some branch:

```
git checkout -b devel
2. Create Apps (or with a different name) directory:
mkdir Apps
3. Move Rajce to Apps/Rajce directory:
git mv Rajce Apps/Rajce
4. Fix symbolic link for LICENSE file:
ln -sf Apps/Rajce/Copying LICENSE
5. Rename "Rajce/Rajce.upp" to "Apps/Rajce/Rajce.upp" for PROJECT_NAME variable in
GenerateCMakeFiles.sh file:
sed -i " -e '/^PROJECT_NAME=/s|Rajce|Apps|' GenerateCMakeFiles.sh
6.1. Save changes in local repository, if necessary (but also possible to do this for specific steps):
git commit -am "Move Rajce to Apps/Rajce directory"
6.2. (Optional) Merge and delete created branch:
```

```
git checkout master
git merge devel
git branch -d devel
```

7. Fix "Package nests" in some assembly, where Rajce package available:  
path/to/Apps;path/to/ultimatepp/uppsrc  
where path/to - is path to cloned rajce repository.

For example, separate nest directories also used for upp-components repository.

A possible alternative is to select the required package directly. For example, select ide package for uppsrc assembly:  
theide uppsrc ide

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [coolman](#) on Wed, 06 Jun 2018 05:51:36 GMT  
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Hi Mirek,

Thank you for the reply. I did not think of this simple solution - just move the directory Rajce to another directory. And I have to admit it is elegant.

btw - LAYOUTFILE, TFILE and IMAGEFILE have to be updated as well.

Radek

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [Sender Ghost](#) on Wed, 06 Jun 2018 06:52:35 GMT  
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coolman wrote on Wed, 06 June 2018 05:51Hi Mirek,

I'm not him (if you replied to me).

coolman wrote on Wed, 06 June 2018 05:51btw - LAYOUTFILE, TFILE and IMAGEFILE have to be updated as well.

No, this is not needed, if you added Apps (or with a different name) to first path of "Packages nest" for your assembly, where Rajce package available.

Sender Ghost wrote on Tue, 05 June 2018 20:207. Fix "Package nests" in some assembly, where Rajce package available:

path/to/Apps;path/to/ultimatepp/uppsrc

where path/to - is path to cloned rajce repository.

But looks like, you did this because of how current version of upp-cmake script(s) works.

Probably, there is a need to add Apps (or with a different name) to include directories of generated CMakeLists.txt file:

```
# Set the default include directory for the whole project
```

```
include_directories ( BEFORE Apps )
```

In other words, there is may be a need to add ability to specify path(s) for nest(s), which may be used as include directories for compiler also.

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar

Posted by [coolman](#) on Wed, 06 Jun 2018 08:01:48 GMT

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Hi,

I apologize for the wrong address.

Yes, you are right. I've updated the LAYOUTFILE, TFILE and IMAGEFILE because it was easiest to do that during testing of CLI build. But there is problem in the IDE with the compilation when assembly is set to path/to/Apps.

So I need to update upp\_cmake to include appropriate path/to/Apps based on the package path using the "include\_directories ()".

Radek

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar

Posted by [Sender Ghost](#) on Wed, 06 Jun 2018 08:24:03 GMT

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coolman wrote on Wed, 06 June 2018 08:01I apologize for the wrong address.

It's ok, no problem.

coolman wrote on Wed, 06 June 2018 08:01So I need to update upp\_cmake to include appropriate path/to/Apps based on the package path using the "include\_directories ()".

I may recommend to check how TheIDE uses assembly's nest(s), when "Setup -> Be verbose" selected for build (e.g. it may use them for compiler invocation as -I"path/to/Apps" -I"path/to/ultimatepp/uppsrc", when "Package nests" is "path/to/Apps;path/to/ultimatepp/uppsrc").

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Subject: Re: TheIDE remote package dependencies proposal - dealing with baazar  
Posted by [coolman](#) on Wed, 06 Jun 2018 08:46:49 GMT

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Hi,

I've update the upp\_cmake to include directories relevant to the package.

Radek

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