
Subject: question on tool development for the IDE
Posted by [raxvan](#) on Wed, 02 Dec 2009 07:17:57 GMT
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Hello,

I want to create a tool for the ide similar to
<http://www.profactor.co.uk/includemanager.php>
basically it shows how your files include each other , and all the include paths.

I also have some other stuff in mind to add to that:

1. Ability to perform optimization on the include graph in order to gain speed during compilation.
2. Ability do change the include paths directly from the graph.
That means that you can remove , add , and modify include paths to individual files.

My euqstions is:
Does the Ide need such a tool? Or it would be just a waste of time?

Thanks,
Raxvan.

Subject: Re: question on tool development for the IDE
Posted by [koldo](#) on Wed, 02 Dec 2009 07:23:49 GMT
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raxvan wrote on Wed, 02 December 2009 08:17Hello,

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My euqstions is:
Does the Ide need such a tool? Or it would be just a waste of time?

Thanks,
Raxvan.

For me it would be very interesting, at least the visualization part.

Best regards
Koldo

Subject: Re: question on tool development for the IDE
Posted by [mr_ped](#) on Wed, 02 Dec 2009 08:40:23 GMT
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During building debug builds with BLITZ enabled this is not a big issue in U++ (I mean the amount of includes in each file), but without BLITZ it's worth to optimize includes even in U++.

The visualization part would be welcome addition for sure.

After all, U++ is just C++, and there's no built-in support for this, so if you have got spare time, why not.

Subject: Re: question on tool development for the IDE
Posted by [raxvan](#) on Wed, 02 Dec 2009 18:00:49 GMT
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Hello,

I'm new to U++ framework , so in order for me to complete at least the visualization there is some stuff i need to know:

1. Is there something in the framework that will help me parse preprocessor directives only?
2. I don't know how to add my GraphCtrl into the Ide.
3. Also i have no clue how to get names and location of the files from the current package (or selected package).

Raxvan.

Subject: Re: question on tool development for the IDE
Posted by [mrjt](#) on Thu, 03 Dec 2009 11:01:52 GMT
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If I were you I would ignore Ide integration for the moment and focus on getting the functionality working given a list of files or a root directory to scan (and maybe a set of additional include paths?).

As long as you design it to run in it's own window and accept a list of input files it will be easy enough to integrate later. Theide is fairly complicated (particularly the code parsing/caching bits) and if you're new to Upp it'll be pretty daunting.

Plus it'll be much, much easier to test and debug it if it's a standalone.

Subject: Re: question on tool development for the IDE
Posted by [raxvan](#) on Thu, 03 Dec 2009 11:47:24 GMT
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i've been working in the past 3 days on a GraphCtrl to display any directed graph in such a way that would be easier to read and if possible with minimum overlapping edges.

The algorithm so far works perfect and it is specially designed to display a graph as it would be a include graph(meaning with no or very few graph cycles). This will be the first thing i will post soon here so that people could test various graph configurations.

i will leave the integration in the Ide the last thing to do(if someone wants do do this voluntarily, i don't mind .

Raxvan.

Subject: Re: question on tool development for the IDE
Posted by [mirek](#) on Thu, 31 Dec 2009 08:44:42 GMT
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raxvan wrote on Wed, 02 December 2009 13:00Hello,

I'm new to U++ framework , so in order for me to complete at least the visualization there is some stuff i need to know:

1. Is there something in the framework that will help me parse preprocessor directives only?

Preprocessor directives in general: No.

Anyway, theide knows which file includes which other file - it has to because otherwise it could not resolve dependencies while building:

```
Vector<String> HdependGetDependencies(const String& path);
```

See uppsrc/ide/Core.h

Quote:

2. I don't know how to add my GraphCtrl into the Ide.

At this stage, you will have to develop it on your machine, then submit the code.

Actual code would be quite simple, just hijack the ide menu routine and perhaps add some "Dependency graph" method to Ide class.
