Subject: Linking on OpenIndiana
Posted by gh_origin on Fri, 24 Jul 2020 11:57:35 GMT
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Does this issue fixed?

https://github.com/ultimatepp/ultimatepp/issues/18

Please let me know if there is any works on it. I currently can't test it on my OI installation. There is a bug that prevented me from update my system and installing the necessary toolchain:

https://www.illumos.org/issues/12964

Subject: Re: Linking on OpenIndiana
Posted by coolman on Fri, 24 Jul 2020 13:30:27 GMT
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Hi,

I tested IDE build with provided VirtualBox image of OpenIndiana. I was able to build the IDE but there were some problems:

1. I used upp_cmake script to generate CMake project files. Problem was with SOLARIS flag. This flag is not properly set in all UPP packages. So I had to set CMAKE_SYSTEM_NAME to Linux in the main CmakeLists.txt file "set (CMAKE_SYSTEM_NAME Linux)" to built the IDE.

2. After that another problem appeared - link failed due to missing link library "socket". This can be fixed with latest version of upp_cmake which contains new optional configuration parameters PROJECT_EXTRA_LINK_FLAGS to add another library to the project. Or update proper UPP package definition to link socket library when OS is SOLARIS (see next point)

3. Another problem was with libraries order for OpenSSL linking. You have to change file uppsrc/Core/SSL/SSL.upp and set library section to "ssl crypto"

4. Last problem with the IDE build was in uppsrc/plugin/ndisasm. I hade to comment out "#include <stdlib.h>" in these files: uppsrc/plugin/ndisasm/lib/nasmlib.c, uppsrc/plugin/ndisasm/lib/snprintf.c and uppsrc/plugin/ndisasm/lib/sync.c

The IDE was built successfully with all these changes. But this workaround works only for the IDE.

This is not solving your problem but it can help you to move forward. You must solve main problem which is described in point 1 - SOLARIS flag is not properly set in all UPP packages. And if you need fully functional build of other UPP projects/packages under SOLARIS OS you have to update all affected UPP packages.

And I'm a little worried that there won't be anyone here who would officially take care of the proper support of the OpenIndiana system, if you're the only one I know of yet. But I may be wrong.

BR, Radek

Subject: Re: Linking on OpenIndiana
Posted by Klugier on Sat, 25 Jul 2020 18:22:56 GMT
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Hello,

It seems that we need to handle OpenIndiana as Solaris in our linking matrix and it should work. It will probably require some work in Core/config.h (link). Can you check that "__sun" is defined by OpenIndiana?

Of course firstly we need to fix platform detection process in the makefile. For more information please visit https://www.ultimatepp.org/forums/index.php?t=msg&goto=5 4456&#msg_54456.

Sincerely,
Klugier

Subject: Re: Linking on OpenIndiana
Posted by coolman on Wed, 29 Jul 2020 15:51:57 GMT
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Hi,

I've prepared basic SunOS support for the IDE build. Take a look at attached patch.

BR, Radek

File Attachments
1) SunOS.patch, downloaded 398 times

Subject: Re: Linking on OpenIndiana
Posted by coolman on Wed, 29 Jul 2020 18:04:20 GMT
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Hi,

I found problem with IDE building on OpenIndiana so next patch must be applied too.

BR, Radek

File Attachments
1) SunOS_2.patch, downloaded 382 times

Subject: Re: Linking on OpenIndiana
Posted by coolman on Wed, 29 Jul 2020 18:36:35 GMT
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Hi gh_origin,

I've updated my fork of Ultimatepp with proposed patches so if you are interested in to test the different approach of IDE building (or another UPP package building) you can do that using the following commands. This approach should be working on different OS too.

git clone https://github.com/CoolmanCZ/ultimatepp.git
cd ultimatepp
./bootstrap
./GenerateCMakeFiles.sh
mkdir build.ide && cd build.ide && cmake .. && make -j 4

BR, Radek

Subject: Re: Linking on OpenIndiana
Posted by mirek on Mon, 03 Aug 2020 15:01:07 GMT
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coolman wrote on Wed, 29 July 2020 17:51Hi,

I've prepared basic SunOS support for the IDE build. Take a look at attached patch.

BR, Radek

Do we really need PLATFORM_SUNOS? I think PLATFORM_SOLARIS is enough. If there are differences, just make it work for OpenIndiana...

Subject: Re: Linking on OpenIndiana
Posted by mirek on Mon, 03 Aug 2020 15:02:59 GMT
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coolman wrote on Fri, 24 July 2020 15:30Hi,

I tested IDE build with provided VirtualBox image of OpenIndiana. I was able to build the IDE but there were some problems:

Ouch, before I got to downloading it, it disappeared. Would it be possible to upload it somewhere and give me a link?

Subject: Re: Linking on OpenIndiana
Posted by coolman on Mon, 03 Aug 2020 16:29:45 GMT
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mirek wrote on Mon, 03 August 2020 17:02coolman wrote on Fri, 24 July 2020 15:30Hi,

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Hi,

Fortunately I still have the archive of OpenIndiana provided by gh_origin. The question is where should I upload them?

BR, Radek

Subject: Re: Linking on OpenIndiana
Posted by mirek on Mon, 03 Aug 2020 16:39:31 GMT
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coolman wrote on Mon, 03 August 2020 18:29mirek wrote on Mon, 03 August 2020 17:02coolman wrote on Fri, 24 July 2020 15:30Hi,

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BR, Radek

How big is it? Generaly anywhere I can download it from...

Subject: Re: Linking on OpenIndiana
Posted by coolman on Mon, 03 Aug 2020 16:40:10 GMT
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mirek wrote on Mon, 03 August 2020 17:01coolman wrote on Wed, 29 July 2020 17:51Hi,

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BR, Radek

Do we really need PLATFORM_SUNOS? I think PLATFORM_SOLARIS is enough. If there are differences, just make it work for OpenIndiana...

Hi,

You are right, we dont need another flag. My mistake.

BR, Radek

Edit: And changes related to the ndisam plugin are also not necessary.

Subject: Re: Linking on OpenIndiana
Posted by coolman on Mon, 03 Aug 2020 16:42:05 GMT
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mirek wrote on Mon, 03 August 2020 18:39coolman wrote on Mon, 03 August 2020 18:29mirek wrote on Mon, 03 August 2020 17:02coolman wrote on Fri, 24 July 2020 15:30Hi,

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BR, Radek

How big is it? Generaly anywhere I can download it from...

Hmm, it is about 4,6 GB.

Subject: Re: Linking on OpenIndiana
Posted by coolman on Tue, 04 Aug 2020 04:19:11 GMT
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coolman wrote on Mon, 03 August 2020 18:42mirek wrote on Mon, 03 August 2020 18:39coolman wrote on Mon, 03 August 2020 18:29mirek wrote on Mon, 03 August 2020 17:02coolman wrote on Fri, 24 July 2020 15:30Hi,

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BR, Radek

How big is it? Generaly anywhere I can download it from...

Hmm, it is about 4,6 GB.

The files will be available at https://www.uschovna.cz/zasilka/BB7PATMT94J5ENW8-PK9/ until 18.08.2020

Subject: Re: Linking on OpenIndiana
Posted by mirek on Thu, 06 Aug 2020 08:22:22 GMT
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OK, so I have it basically working as well and getting ready to support it in install process.

The one problem remaining is with automated dependency installation of install script:

pkg install bash gmake gtk3 libnotify clang-devel

(above is created for freebsd, where it works)

openindiana is unable to install gtk3 and clang-devel here.

How should this be fixed to support it?

Mirek

Subject: Re: Linking on OpenIndiana
Posted by mirek on Thu, 06 Aug 2020 15:50:46 GMT
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mirek wrote on Thu, 06 August 2020 10:22

pkg install bash gmake gtk3 libnotify clang-devel

It looks like this is the answer:

pkg install bash gtk3 libnotify developer/clang-80 gnu-make

Subject: Re: Linking on OpenIndiana
Posted by gh_origin on Thu, 06 Aug 2020 15:56:11 GMT
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On OpenIndiana, gtk3 is already available (it's using MATE, a gtk3 based DE). You should replace clang-devel with build-essential. The default compiler on OpenIndiana is GCC7, it's included in build-essential. OI also uses bash as it default shell, so you do not need to install it. gmake is included in build-essential (as I recal).

So the command should be:

pkg install build-essential libnotify

As I recall, libnotify is already available, too. But I'm not sure, so just keep it there.

If you want clang, you can query the package name with pkg search -rp clang and choose the version you want to install, there are clang 8 and clang 9 (as I recall). You can install newer GCC version, too. Just query the package name with pkg search -rp gcc to know the exact package name.

Subject: Re: Linking on OpenIndiana
Posted by mirek on Fri, 07 Aug 2020 08:36:52 GMT
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Thanks.

One little annoying thing is that if all packages are already installed and pkg takes no action, it returns exit code 4 and install script reports problem. Any chance to fix that without introducing some mechanism of "allowed exit code" into install script? Like some pkg commandline option?

Other issue is that while testing our examples, there seems to be some issue with socket implementation; in OpenIndiand I am getting some socket transport endpoint errors; it works fine on other platforms. Does that ring some bells?

Subject: Re: Linking on OpenIndiana
Posted by mirek on Fri, 07 Aug 2020 10:10:41 GMT
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In 'parallel' develeopment (to ./install script and install tarball), in source tree there is now ./configure script that should 'fix' the makefile to work in opensolaris (fixes for BSDs coming... - actually the most work there is to install these in virtualbox...)

Mirek

Subject: Re: Linking on OpenIndiana
Posted by Novo on Fri, 07 Aug 2020 20:48:29 GMT
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Usually, all opensource OS are available preinstalled in VM. You just need to download an image. IMHO, Vagrant is a starting point.

Subject: Re: Linking on OpenIndiana

Posted by mirek on Sat, 08 Aug 2020 07:40:25 GMT
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Novo wrote on Fri, 07 August 2020 22:48Usually, all opensource OS are available preinstalled in VM. You just need to download an image.

I have the feeling that there must be a library of preinstalled virtualbox images somewhere. I just fail to find it...

Mirek

Subject: Re: Linking on OpenIndiana
Posted by Novo on Sat, 08 Aug 2020 14:34:47 GMT
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mirek wrote on Sat, 08 August 2020 03:40Novo wrote on Fri, 07 August 2020 22:48Usually, all opensource OS are available preinstalled in VM. You just need to download an image.

I have the feeling that there must be a library of preinstalled virtualbox images somewhere. I just fail to find it...

Mirek
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