Subject: Compiling Fortran sources in TheIde
Posted by koldo on Thu, 28 Jan 2010 14:12:45 GMT
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Hello all

I have some .for and .c files that form a command line program in Windows, that I would like to compile from TheIde.

Is it possible ?. Do you have any experience ?

In my first try it seems that TheIde does not consider them source code and do not try to compile them.

Best regards
Koldo

Subject: Re: Compiling Fortran sources in TheIde
Posted by 281264 on Wed, 08 Sep 2010 08:47:49 GMT
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Koldo,

No idea about TheIde capabilities, but if you are really interested in Fortran, there are some options available; among them, I recommend (Eclipse+Photran)+gFortran compiler.

Best wishes,

Javier

Subject: Re: Compiling Fortran sources in TheIde
Posted by koldo on Wed, 08 Sep 2010 09:02:00 GMT
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Thank you Javier

Subject: Re: Compiling Fortran sources in TheIde
Posted by dolik.rce on Wed, 08 Sep 2010 09:33:25 GMT
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koldo wrote on Thu, 28 January 2010 15:12Hello all

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Koldo
Hi Koldo,

Project > Custom build steps can be used to setup action to take for the .for files. The hard part would be probably tricking theide to use the resulting object files during linking (Maybe having a empty cpp file with the same name?).
Be aware that although it looks simple at first, it has some hidden traps It took me a while to figure out last time I used it (with flex and bison files).

Honza

Subject: Re: Compiling Fortran sources in TheIde
Posted by koldo on Wed, 08 Sep 2010 09:38:46 GMT
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Thank you all.

For now I do not need it but I will take it into account.

(ah, in a recent post Mirek told that somebody included java files in TheIDE)

Subject: Re: Compiling Fortran sources in TheIde
Posted by dolik.rce on Wed, 08 Sep 2010 09:41:41 GMT
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Yes, Java is supported. If you need it, you might add FortranBuilder as well

Honza

Subject: Re: Compiling Fortran sources in TheIde
Posted by sergeynikitin on Mon, 21 Mar 2016 13:32:14 GMT
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How to pass to Custom build steps some Flags like Debug or defined Flags (like GUI).?

(I try to setup compile gfortran from TheIde, and all very well, but can't decide how to pass

something other than the files path)

Subject: Re: Compiling Fortran sources in TheIde
Posted by sergeynikitin on Wed, 31 Oct 2018 08:00:06 GMT
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I tried to compile gfortran + U++ under linux.

I make template.

If you want compile only fortran module = select Fortran Only Package.

If you want fortran + U++ use "Fortram i C++ Core package"
Example code, that created by template consist of call fortran subroutines from C++ and C++ functions from fortran code.

File Attachments

1) Fortran_i_C++.upt, downloaded 442 times

Subject: Re: Compiling Fortran sources in TheIde
Posted by sergeynikitin on Wed, 31 Oct 2018 08:01:27 GMT
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One more template
"Fortran only"

File Attachments

1) FortranOnly.upt, downloaded 437 times

Subject: Re: Compiling Fortran sources in TheIde
Posted by sergeynikitin on Wed, 31 Oct 2018 08:10:43 GMT
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Debugger work with this files (.FOR and .F90) perfectly.
Variables are watchable.
structures and arrays are watchable too.

It would be appropriate to tell that theide supports gfortran, if not one "BUT".

The editor does not support a fortran-syntax highlightings.

By search of a context in all files of a directory of a packet, the editor confuses row numbers. For example finds entrance of a required context on the 52nd line, and really it appears on the 83rd line.

Colleagues, prompt where to float?
Where to look for the decision?
What file of TheIde source codes to try to adjust?

Subject: Re: Compiling Fortran sources in TheIde
Posted by koldo on Thu, 25 Jul 2019 12:31:53 GMT
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Thank you Sergey

It works!

I just have to add -lgfortran in "Common link options".

Subject: Re: Compiling Fortran sources in TheIde
Posted by koldo on Mon, 29 Jul 2019 08:03:29 GMT
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An additional detail.

Actual demo launches a SEGFAULT using gfortran 64 bits.

To fix it, this could be done:
- In Fortran code, declare string as
character(len=80) :: cc = char(0)
- In C code, remove
cc[ll--] = '\0'; // NULL terminate the string
This is due in void writelog_(char *cc, int ll), ll has the original dimension (80), but as gfortran seems to trim the length to the real string, returned string is shorter so assigning a '\0' to 80-1 access to non allocated memory, creatintg the SEGFAULT

- Assign the class pointer in the constructor:
tfp = this;
If not, calling tfp->WriteLog(cc); may fail.

Subject: Re: Compiling Fortran sources in TheIde
Posted by sergeynikitin on Mon, 29 Jul 2019 10:34:06 GMT
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May be. Fortran and C++ differently use size of integer in 64 bit mode.

Use int32_t or int64_t in C++ and INTEGER(8) or INTEGER(4) in fortran.

Unfortunately, upt have to rewrite under 64bit Fortran.

Subject: Re: Compiling Fortran sources in TheIde
Posted by koldo on Tue, 30 Jul 2019 05:55:22 GMT
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Hi Sergey

I think the SEGFAULT has nothing to do with integer sizes. It was produced after this line
cc[ll--] = '\0'
What I meant is that ll returns 80, the initial declaration size. However gfortran really allocates the size of the string, I mean, it shrinks the 80 to the real size. This way cc[ll--] = '\0' corrupts memory.