
Subject: Compiling Fortran sources in Thelde
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 Thelde.

Is it possible ?. Do you have any experience ?

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

Best regards
Koldo

Subject: Re: Compiling Fortran sources in Thelde
Posted by [281264](#) on Wed, 08 Sep 2010 08:47:49 GMT
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Koldo,

No idea about Thelde 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 Thelde
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 Thelde
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 Thelde
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 ThelDE)

Subject: Re: Compiling Fortran sources in Thelde
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 Thelde
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 Thelde, and all very well, but can't decide how to pass

something other than the files path)

Subject: Re: Compiling Fortran sources in Thelde
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 "Fortran 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 355 times

Subject: Re: Compiling Fortran sources in Thelde
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 345 times

Subject: Re: Compiling Fortran sources in Thelde
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 Thelde source codes to try to adjust?

Subject: Re: Compiling Fortran sources in Thelde
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 Thelde
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, creating 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 Thelde
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 Thelde
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.
