
Subject: Program to convert (i) to [i] ?

Posted by [M. Katz](#) on Fri, 19 Nov 2010 21:27:53 GMT

[View Forum Message](#) <> [Reply to Message](#)

Some time ago, in a posting before the release of IDL 8, I remember people discussing the forced use of square brackets [] for array indices. While I have been thoroughly converted to square bracket arrays since the early 2000s, I still rely on thousands of lines of older code that has a lot of parentheses ().

Someone mentioned a program that could intelligently convert code en masse, but I cannot now find that reference. Can anyone point me in the correct direction, or share their experience with using it? How does it know which of your labels are your own .pro functions and which are variable names when there is an ambiguity?

Is there a COMPILE_OPT setting to allow the use of older () array indices? I'm running IDL 8.0.1 now.

Thanks,
M.

Subject: Re: Program to convert (i) to [i] ?

Posted by [David Fanning](#) on Fri, 19 Nov 2010 21:38:50 GMT

[View Forum Message](#) <> [Reply to Message](#)

M. Katz writes:

> Is there a COMPILE_OPT setting to allow the use of older () array
> indices? I'm running IDL 8.0.1 now.

Have you tried this:

Compile_Opt oldschool

The wheels turn slowly. How many of us are
still wondering what a widget is?

Cheers,

David

P.S. Let's just say if we could convince everyone
to get rid of the IDL start-up files bequeathed to
them by their graduate school mentor we might make
some progress. :-)

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Program to convert (i) to [i] ?
Posted by [M. Katz](#) on Fri, 19 Nov 2010 23:19:57 GMT
[View Forum Message](#) <> [Reply to Message](#)

These don't seem to work either ;)

Compile_Opt dinosaur
Compile_Opt run_faster
Compile_Opt forgive_mistakes

P.S. I myself have one of those 17 year old startup files (modified many times along the way).

Subject: Re: Program to convert (i) to [i] ?
Posted by [penteado](#) on Fri, 19 Nov 2010 23:27:17 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Nov 19, 7:27 pm, "M. Katz" <MKatz...@yahoo.com> wrote:
> Is there a COMPILE_OPT setting to allow the use of older () array
> indices? I'm running IDL 8.0.1 now.

They are (still) allowed by default. There is the option strictarr that does the opposite, disallowing them.

Subject: Re: Program to convert (i) to [i] ?
Posted by [jeanh](#) on Sat, 20 Nov 2010 15:52:39 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 19/11/2010 6:27 PM, Paulo Penteado wrote:
> On Nov 19, 7:27 pm, "M. Katz"<MKatz...@yahoo.com> wrote:
>> Is there a COMPILE_OPT setting to allow the use of older () array
>> indices? I'm running IDL 8.0.1 now.
>
> They are (still) allowed by default. There is the option strictarr
> that does the opposite, disallowing them.

I guess one could write a small program that use strictarr, and create a

new .pro file. When an error occurs, the program change the () to [] and moves on, saving the updated code in the new file...

Jean

Subject: Re: Program to convert (i) to [i] ?
Posted by [penteado](#) on Sat, 20 Nov 2010 17:50:36 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Nov 20, 1:52 pm, jeanh
<jghasb...@DELETETHIS.environmentalmodelers.ANDTHIS.com> wrote:

> I guess one could write a small program that use strictarr, and create a
> new .pro file. When an error occurs, the program change the () to [] and
> moves on, saving the updated code in the new file...

But keeping in mind that would still be a guess, as there are cases where the wrong interpretation of the () would not throw an error.

Subject: Re: Program to convert (i) to [i] ?
Posted by [wlandsman](#) on Sat, 20 Nov 2010 19:27:41 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Nov 19, 4:27 pm, "M. Katz" <MKatz...@yahoo.com> wrote:

>
> Someone mentioned a program that could intelligently convert code en
> masse, but I cannot now find that reference. Can anyone point me in
> the correct direction, or share their experience with using it?

The program idlv4_to_v5 is in <http://idlastro.gsfc.nasa.gov/ftp/contrib/landsman/v5/>
. See the README file there.

> How
> does it know which of your labels are your own .pro functions and
> which are variable names when there is an ambiguity?

It uses RESOLVE_ROUTINE and ROUTINE_INFO to make a list of available functions for the current !PATH. It then assumes that any function_or_variable() is a function if it is in this list, and otherwise is a variable. So it resolves the ambiguity the same way the IDL session would (though not necessarily the way the user intended).

The program does sometimes have problems with parentheses written

within quotes, or with parentheses split among multiple line, but it usually gives a warning when it gets confused. So a few procedures required further manual editing.

Disclaimer: I was quite happy with the effectiveness of this procedure when I used it, but I haven't used it in many years. -Wayne

Subject: Re: Program to convert (i) to [i] ?
Posted by [M. Katz](#) on Sun, 21 Nov 2010 06:31:29 GMT
[View Forum Message](#) <> [Reply to Message](#)

Wonderful. Thank you. I'll try it!
