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Subject: Source Code into latex  
Posted by [Dominik\[1\]](#) on Mon, 09 Jul 2001 13:49:28 GMT  
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Hi there,

does somebody know, how I can convert or create a latex-document out of my  
IDL Source Code?

Thanks

Dom

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=====  
Dominik Paul  
Uniklinik Freiburg  
Abt. Nuklearmedizin/PET  
=====

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Subject: Re: Source Code into latex  
Posted by [George N. White III](#) on Thu, 12 Jul 2001 16:47:48 GMT  
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On Mon, 9 Jul 2001, Dominik Paul wrote:

>  
> Hi there,  
>  
> does somebody know, how I can convert or create a latex-document out of my  
> IDL Source Code?

I often include IDL code in LaTeX (and ConTeXt) documents using the  
ProTeX literate programming macro package.

Simple example:

```
\documentclass[11pt]{article}
\usepackage{txfonts} %

% ProTex:
% http://www.cis.ohio-state.edu/~gurari/tpf/html/LitProg.html
% Eitan Gurari, "TeX and LaTeX: Drawing and Literate Programming".
% McGraw-Hill, 1994. ISBN 0-07-025208-4 / 0-07-911616-7
\ifx\AlProTex\undefined%
\input{ProTex.sty}
```

```
\fi
\AlProTex{f,<<<>>>,title,list,`}
```

```
\title{IDL in \LaTeX}
\author{George N. White III}
\begin{document}
\maketitle
```

Here is an IDL procedure. Using the literate programming tool, sections can be defined elsewhere and will be embedded into the output file.

```
\<dummy\><<<
pro dummy
;dummy IDL procdure
`<print` >
END
>>>
```

Here is the definition of the \verb|print| section.

```
\<print\><<<
print, '...'
>>>
```

Finally, we write the complete program.

```
\OutputCode[pro]\<dummy\>

\end{document}
```

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George N. White III <gnw3@acm.org> Bedford Institute of Oceanography

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Subject: Re: Source Code into latex  
Posted by [plugge](#) on Fri, 20 Jul 2001 07:09:22 GMT  
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In article <9iccp9\$80o\$1@n.ruf.uni-freiburg.de>, "Dominik Paul"  
<dpaul@ukl.uni-freiburg.de> writes:

```
|>
|>Hi there,
|>
|>does somebody know, how I can convert or create a latex-document out of my
|>IDL Source Code?
```

Dom,

some time ago I wrote a converter for idl -> LaTeX. You may grab it from

[ftp://axp3.sv.fh-mannheim.de/cvt2latex/cvt2ltx\\_current.zip](ftp://axp3.sv.fh-mannheim.de/cvt2latex/cvt2ltx_current.zip)

Best regards

Michael Plugge

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Subject: Re: Source Code

Posted by [Haje Korth](#) on Fri, 20 Jun 2003 17:52:06 GMT

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The routine comes straight from the Numerical Recipes, which is also stated in the help file.

Haje

"Kate" <[faeriepunk@aol.com](mailto:faeriepunk@aol.com)> wrote in message

<news:c3c94d97.0306200929.2c655760@posting.google.com>...

- > I was wondering, what's the deal with getting the source code of IDL
  - > library functions that aren't in the 'library' folder. I want to see
  - > the source for QROMB but cant' find it, does this mean I'm not allowed
  - > to look at it? or where do I look?
  - >
  - > Kate Morgan
  - > Research Technician
  - > Dept. of Medical Imaging
  - > University of Toronto
- 

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Subject: Re: Source Code

Posted by [Haje Korth](#) on Fri, 20 Jun 2003 17:53:49 GMT

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The functions that are not in the lib directory are c-code and contained in the compiled libraries. Under windows this would be idl32.dll, but of course this does not help much! :-)

Haje

"Kate" <[faeriepunk@aol.com](mailto:faeriepunk@aol.com)> wrote in message

<news:c3c94d97.0306200929.2c655760@posting.google.com>...

> I was wondering, what's the deal with getting the source code of IDL  
> library functions that aren't in the 'library' folder. I want to see  
> the source for QROMB but cant' find it, does this mean I'm not allowed  
> to look at it? or where do I look?  
>  
> Kate Morgan  
> Research Technician  
> Dept. of Medical Imaging  
> University of Toronto

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Subject: Re: Source Code

Posted by [Rick Towler](#) on Fri, 20 Jun 2003 18:14:27 GMT

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"Kate" wrote in message...

> I was wondering, what's the deal with getting the source code of IDL  
> library functions that aren't in the 'library' folder. I want to see  
> the source for QROMB but cant' find it, does this mean I'm not allowed  
> to look at it? or where do I look?

QROMB is a "system function" which means it is written in C and no source code is available.

But, the docs state:

"QROMB is based on the routine qromb described in section 4.3 of Numerical Recipes in C: The Art of Scientific Computing (Second Edition), published by Cambridge University Press, and is used by permission."

I would check out <http://www.nr.com/>

-Rick

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Subject: Re: Source Code

Posted by [Craig Markwardt](#) on Fri, 20 Jun 2003 21:54:17 GMT

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"Rick Towler" <[rtowler@u.washington.edu](mailto:rtowler@u.washington.edu)> writes:

> "Kate" wrote in message...  
>> I was wondering, what's the deal with getting the source code of IDL  
>> library functions that aren't in the 'library' folder. I want to see  
>> the source for QROMB but cant' find it, does this mean I'm not allowed  
>> to look at it? or where do I look?

>  
>  
> QROMB is a "system function" which means it is written in C and no source  
> code is available.

QROMB is also not a terribly flexible integrator because it is very difficult to pass in arguments or keywords to the user function. I think Kate has already found it, but it's worth mentioning the QUADPACK integrator, which I have translated to IDL.

The IDL QPINT1D function has many of the QUADPACK integrators inside of it. The source code is available; there are several ways to pass arguments to the user function; there are several means of error control; and improper integrals or integrands with singularities are allowed.

Hope that helps!  
Craig

P. S. <http://cow.physics.wisc.edu/~craigm/idl/idl.html> (under Mathematics)

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Craig B. Markwardt, Ph.D.      EMAIL: [craigmnet@cow.physics.wisc.edu](mailto:craigmnet@cow.physics.wisc.edu)  
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response  
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