Subject: IDL 8.4 and ENVI 5.2
Posted by chris_torrence@NOSPAM on Wed, 15 Oct 2014 15:49:54 GMT
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Hi all,

IDL 8.4 and ENVI 5.2 have just been released! If you are current on maintenance, you can download the latest release at:

http://www.exelisvis.com/MyAccount/Downloads.aspx

Just be patient if it's slow, because there are a lot of people downloading...

What's new? Here is a brief summary:

ALOG2 function

BigInteger class: Allows you to create and manipulate integer numbers of any size. For example:

 $b = BigInteger(2)^1279 - 1$

PRINT, '2^1279 - 1 is prime?', b.lsPrime() ? 'true' : 'false'

c = b.NextPrime()

PRINT, 'next prime is ', c - b, ' greater'

BOOLEAN Variables: Boolean variables are actually variables of type BYTE with a special boolean flag. There are also two new system variables, !TRUE and !FALSE.

Code Coverage: You can now analyze the code coverage for your applications using the CODE_COVERAGE function. The function returns the line numbers of code that were executed and not executed for your given routine. In addition, the Code Coverage feature has been integrated into the Workbench.

Folder Watch: The new FOLDERWATCH object monitors folders for changes and invokes a user-defined callback whenever a change occurs.

FFT Power Spectrum: computes the Fourier Power Spectrum of an array, with optional filtering.

Generate Code in New Graphics: generates the code needed to reproduce the contents of a graphics window.

Lambda Functions and Procedures: create simple inline routines that can be used for functional

programming. For example:

IDL> compile opt idl2

IDL> lam = LAMBDA(n:n le 3 || MIN(n mod [2:FIX(SQRT(n))]))

IDL> PRINT, lam(499), lam(4999), lam(499999), lam(4999999), lam(4999999)

Variable Attributes: You can now access special attributes on all IDL variables. For example:

var = RANDOMU(seed, 200, 100)

PRINT, var.length

PRINT, var.ndim

PRINT, var.dim

PRINT, var.typecode

PRINT, var.typename

Static Methods for IDL Variables: You can now call special static methods on all IDL variables except objects and structures. For example:

var1 = RANDOMU(seed, 200, 100)

PRINT, var1.Mean()

PRINT, var1.Total()

var2 = var1.Sort()

HELP, var2

Plus a bunch of other feature enhancements and library updates. See the "What's New" in the IDL documentation for the full list:

http://www.exelisvis.com/docs/WhatsNew.html

As always, IDL is backwards compatible. All of your existing IDL code should continue to work as it did before. SAVE files created in earlier versions of IDL will work fine. In addition, SAVE files created in IDL 8.4 should work fine in IDL 8.3. Finally, we preserved the binary compatibility of IDL 8.4 with 8.3 - so libraries (such as the Slither Python module) should continue to work in 8.4 without needing to be recompiled.

Cheers, Chris

ExelisVIS

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by rryan%stsci.edu on Wed, 15 Oct 2014 16:45:57 GMT

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On Wednesday, October 15, 2014 11:49:56 AM UTC-4, Chris Torrence wrote:

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-Russell

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Subject: Re: IDL 8.4 and ENVI 5.2

Posted by penteado on Thu, 16 Oct 2014 17:06:13 GMT

View Forum Message <> Reply to Message

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All of that is much appreciated, Chris.

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> Cheers,
>
> Chris
> ExelisVIS

Subject: Re: IDL 8.4 and ENVI 5.2 Posted by chris_torrence@NOSPAM on Thu, 16 Oct 2014 18:16:26 GMT View Forum Message <> Reply to Message

On Thursday, October 16, 2014 11:06:15 AM UTC-6, pp.pe...@gmail.com wrote:

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-Chris

Subject: Re: IDL 8.4 and ENVI 5.2 Posted by penteado on Thu, 16 Oct 2014 18:35:43 GMT View Forum Message <> Reply to Message

You might have heard that the next cool and exciting possibility I am examining is how to deploy IDL in Amazon EC2 instances. I am starting by using only the IDL VM, to see how it works. But eventually there would be the need for the full IDL, which would require a license. The ideal model would be to have IDL offered on the AWS Marketplace, so that the image would come with IDL installed and working, with the license charged through the AMI price. This would enable the use of images created and destroyed at any time, without having to worry with arranging for licenses.

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Subject: Re: IDL 8.4 and ENVI 5.2

Posted by Aaron Kennedy on Fri, 17 Oct 2014 20:41:26 GMT

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Were the grib2 issues fixed in 8.4? Not sure how to check the bug tracking # I was assigned for that issue!

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by timothyja123 on Mon, 20 Oct 2014 04:54:46 GMT

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On Saturday, October 18, 2014 7:41:29 AM UTC+11, ouwxg...@gmail.com wrote:

> Were the grib2 issues fixed in 8.4? Not sure how to check the bug tracking # I was assigned for that issue!

I've asked for a better system for checking this stuff a few times. However currently the suggested way to check is to send an email to support.

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by chris_torrence@NOSPAM on Mon, 20 Oct 2014 05:07:48 GMT

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On Friday, October 17, 2014 2:41:29 PM UTC-6, ouwxg...@gmail.com wrote:

> Were the grib2 issues fixed in 8.4? Not sure how to check the bug tracking # I was assigned for that issue!

Which bug number was it? I'll check it tomorrow morning.

-Chris

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by skymaxwell@gmail.com on Tue, 21 Oct 2014 16:43:20 GMT

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Hi,

What is the Live Tools, which will be not support in next IDL versions?

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by chris_torrence@NOSPAM on Tue, 21 Oct 2014 17:05:58 GMT

View Forum Message <> Reply to Message

On Tuesday, October 21, 2014 10:43:22 AM UTC-6, skymaxwell wrote:

- > Hi,
- >
- >
- > What is the Live Tools, which will be not support in next IDL versions?

Ah, the Live Tools. They pre-date me. They were an attempt at interactive plots, similar to the Matlab figure window. I think they came out around IDL 5.1 or 5.2, and they were quickly made obsolete by the iTools in IDL 6.0. The code is very difficult to maintain, and is cluttering up our code repository.

I'm sure that other people in the newsgroup have more to say on the topic. :-)

-Chris

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by David Fanning on Tue, 21 Oct 2014 18:24:09 GMT

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Chris Torrence writes:

> I'm sure that other people in the newsgroup have more to say on the topic. :-)

iTools! Love 'em!

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by kagoldberg on Wed, 22 Oct 2014 04:28:26 GMT

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It would be great to have a webinar from ExelisVIS to discuss and explain some of the new, less familiar or less obvious features. I had trouble understanding the code snippets in the WhatsNew page. Thanks!

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by Jim Pendleton on Wed, 22 Oct 2014 14:30:53 GMT

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On Tuesday, October 21, 2014 10:28:28 PM UTC-6, kagol...@lbl.gov wrote:

> It would be great to have a webinar from ExelisVIS to discuss and explain some of the new, less familiar or less obvious features. I had trouble understanding the code snippets in the WhatsNew page. Thanks!

Also watch for weekly postings on the IDL Data Point blog.

http://exelisvis.com/Company/PressRoom/Blogs/IDLDataPoint.as px

Some of my colleagues have been providing sneak peaks at new features over the past couple months. This Thursday I'll talk a little about the new IDL_Variable behaviors.

If there are topics of interest whose contents can be reasonably squeezed into a single web page, go ahead and ask.

Jim P.

An employee of Exelis VIS

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by David Fanning on Wed, 22 Oct 2014 14:48:02 GMT

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Jim P writes:

> Also watch for weekly postings on the IDL Data Point blog.

>

> http://exelisvis.com/Company/PressRoom/Blogs/IDLDataPoint.as px

It would be lovely (and a great deal more useful, probably) if that blog could actually be found by someone (Feedly, for example). That way, people might actually read it. :-)

Cheers.

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by Michael Galloy on Thu, 23 Oct 2014 05:16:39 GMT

View Forum Message <> Reply to Message

On 10/22/14, 8:48 AM, David Fanning wrote:

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Cheers,
David
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Exelis VIS clearly has never understood the web, but you can add the feed to Feedly. Search for the following URL on Feedly, i.e., actually paste the following URL into the Feedly search box:

http://www.exelisvis.com/Company/PressRoom/Blogs/IDLDataPoint/TabId/838/mid/2923/ctl/rss/Default.aspx

That should find it and you can add it from there. Obvious!

Mike

--

Michael Galloy

www.michaelgalloy.com

Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)

Research Mathematician Tech-X Corporation

Subject: Re: IDL 8.4 and ENVI 5.2 Posted by David Fanning on Thu, 23 Oct 2014 09:42:57 GMT View Forum Message <> Reply to Message

Michael Galloy writes:

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> That should find it and you can add it from there. Obvious!

Thanks, Mike! It had 9 Feedly readers when I signed up this morning. :-)

Cheers.

David

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Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by Haje Korth on Thu, 23 Oct 2014 12:06:36 GMT

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Hi Mike

That's not entirely true. Mark Piper used to have this blog at an easy to remember url. However, this url was outside the ExlisVIS firewall/IT premises and my guess is that this fact led to the demise of its existence in that location. I wish there would be at least a button on the main page to get to this blog, which I have always found extremely helpful.

Haje

On Thursday, October 23, 2014 1:16:42 AM UTC-4, Mike Galloy wrote:

- > On 10/22/14, 8:48 AM, David Fanning wrote:
- >> Jim P writes:

>>

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> www.michaelgalloy.com
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> Research Mathematician
> Tech-X Corporation
Subject: Re: IDL 8.4 and ENVI 5.2
Posted by wilber jhon RETAMOZO on Tue, 23 Dec 2014 23:12:42 GMT
View Forum Message <> Reply to Message
El miércoles, 15 de octubre de 2014 10:49:56 UTC-5, Chris Torrence escribió:
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- > ExelisVIS

Estimated Friend. Download the envi program to install on my computer asks me to leave and I can not access the license, can you help me am new to this topic. I have installed envi 5.2 and OS is windons 8

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by brendan.speet on Wed, 23 Sep 2015 07:28:28 GMT

View Forum Message <> Reply to Message

On Friday, October 17, 2014 at 5:05:44 AM UTC+10:30, Paulo Penteado wrote:

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Just wondering where did you get with creating an IDL AMI

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by braveheart197315 on Wed, 14 Oct 2015 09:17:03 GMT

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> PRINT, var1.Mean()
> PRINT, var1.Total()
> var2 = var1.Sort()
> HELP, var2
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> Plus a bunch of other feature enhancements and library updates. See the "What's New" in the
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> http://www.exelisvis.com/docs/WhatsNew.html
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without needing to be recompiled.
>
> Cheers,
·
> Chris
> ExelisVIS
Door Chris
Dear Chris,
I would like to write you because I need help about IDL. Can you send me your email please(my
email braveheart197315@yahoo.com)
Best Regard
N.S.David

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by chris_torrence@NOSPAM on Wed, 14 Oct 2015 16:08:57 GMT

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On Wednesday, October 14, 2015 at 3:17:10 AM UTC-6, bravehea...@yahoo.com wrote:

- > Dear Chris,
- > I would like to write you because I need help about IDL. Can you send me your email please(my email braveheart197315@yahoo.com)
- > Best Regard
- > N.S.David

Hi.

If you have a current IDL license, then I would recommend contacting Exelis VIS Tech Support, support<at>exelisinc.com.

-Chris

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by braveheart197315 on Wed, 21 Oct 2015 13:19:08 GMT

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On Wednesday, 14 October 2015 17:09:00 UTC+1, Chris Torrence wrote:

- > On Wednesday, October 14, 2015 at 3:17:10 AM UTC-6, bravehea...@yahoo.com wrote:
- >> Dear Chris.
- >> I would like to write you because I need help about IDL. Can you send me your email please(my email braveheart197315@yahoo.com)
- >> Best Regard
- >> N.S.David

>

- > Hi,
- > If you have a current IDL license, then I would recommend contacting Exelis VIS Tech Support, support<at>exelisinc.com.
- > -Chris

Dear Chris.

Yes I have IDL license because I PhD Student/medical physics

Please could you send me youre email(braveheart197315@yahoo.com)

Best Regard

N.S.David

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by eman.ezzat.marie on Sat, 21 Nov 2015 21:38:21 GMT

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On Wednesday, October 15, 2014 at 10:49:56 AM UTC-5, Chris Torrence wrote:

> Hi all,

>

> IDL 8.4 and ENVI 5.2 have just been released! If you are current on maintenance, you can

download the latest release at:	
>	
> http://www.exelisvis.com/MyAccount/Downloads.aspx	
>	
> Just be patient if it's slow, because there are a lot of people downloading	
>	
> What's new? Here is a brief summary:	
· >	
>	
> ALOG2 function	
>	
>	
> BigInteger class: Allows you to create and manipulate integer numbers of any size. For	
example:	
> b = BigInteger(2)^1279 - 1	
> PRINT, '2^1279 - 1 is prime?', b.IsPrime() ? 'true' : 'false'	
> c = b.NextPrime()	
> PRINT, 'next prime is ', c - b, ' greater'	
>	
> BOOLEAN Variables: Boolean variables are actually variables of type BYTE with a special	
boolean flag. There are also two new system variables, !TRUE and !FALSE.	
>	
> Code Coverage: You can now analyze the code coverage for your applications using the	
CODE_COVERAGE function. The function returns the line numbers of code that were executed	
and not executed for your given routine. In addition, the Code Coverage feature has been	
integrated into the Workbench.	
>	
>	
> Folder Watch: The new FOLDERWATCH object monitors folders for changes and invokes a	
user-defined callback whenever a change occurs.	
>	
>	
> FFT Power Spectrum: computes the Fourier Power Spectrum of an array, with optional filterin	g.
>	
>	
> Generate Code in New Graphics: generates the code needed to reproduce the contents of a	
graphics window.	
>	
>	
> Lambda Functions and Procedures: create simple inline routines that can be used for function	al
programming. For example:	
> IDL> compile_opt idl2	
> IDL> lam = LAMBDA(n:n le 3 MIN(n mod [2:FIX(SQRT(n))]))	
> IDL> PRINT, lam(499), lam(4999), lam(49999), lam(499999)	
> 122 1 Till 17, Iam (1889), Iam (1888), Iam (1888), Iam (1888), Iam (1888)	
>	

> Variable Attributes: You can now access special attributes on all IDL variables. For example: > var = RANDOMU(seed, 200, 100) > PRINT, var.length > PRINT, var.ndim > PRINT, var.dim > PRINT, var.typecode > PRINT, var.typename > Static Methods for IDL Variables: You can now call special static methods on all IDL variables except objects and structures. For example: > var1 = RANDOMU(seed, 200, 100) > PRINT, var1.Mean() > PRINT, var1.Total() > var2 = var1.Sort() > HELP, var2 > > Plus a bunch of other feature enhancements and library updates. See the "What's New" in the IDL documentation for the full list: http://www.exelisvis.com/docs/WhatsNew.html > As always, IDL is backwards compatible. All of your existing IDL code should continue to work as it did before. SAVE files created in earlier versions of IDL will work fine. In addition, SAVE files created in IDL 8.4 should work fine in IDL 8.3. Finally, we preserved the binary compatibility of IDL 8.4 with 8.3 - so libraries (such as the Slither Python module) should continue to work in 8.4 without needing to be recompiled. > > Cheers, > Chris > ExelisVIS Hi Chris, I just need to have an access to IDL 8.4. I got 8.5 and it crashes everytime I tried to run RT_Image **Thanks** Eman

Subject: Re: IDL 8.4 and ENVI 5.2

Posted by chris_torrence@NOSPAM on Mon, 30 Nov 2015 17:01:31 GMT View Forum Message <> Reply to Message

On Saturday, November 21, 2015 at 2:38:26 PM UTC-7, eman.ezz...@gmail.com wrote:

> On Wednesday, October 15, 2014 at 10:49:56 AM UTC-5, Chris Torrence wrote:

>> Hi all,

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dov	vnload the latest release at:
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	FFT Power Spectrum: computes the Fourier Power Spectrum of an array, with optional ring.
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	Generate Code in New Graphics: generates the code needed to reproduce the contents of a phics window.
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>>

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>> Cheers,
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>
> Hi Chris,
> I just need to have an access to IDL 8.4. I got 8.5 and it crashes everytime I tried to run
RT Image
> Thanks
> Eman
```

I would contact support<at>exelisinc.com and give them details about your machine, operating system, and a reproduce program.

Hi Eman,

Cheers, Chris