
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:

A LOG2 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 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(49999), lam(499999), 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

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

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

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```

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> Cheers,
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> Chris
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> ExelisVIS

Cool.. I'm anxious to kick the tires.

-Russell

Subject: Re: IDL 8.4 and ENVI 5.2
Posted by [penteado](#) on Thu, 16 Oct 2014 17:06:13 GMT
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I was reading the what's new (<http://www.exelisvis.com/docs/WhatsNew.html>). There are lots of wonderful new things!. Chris' post doesn't do justice. Some of the new features I have wanted for a very long time: filter, map and reduce for hashes and lists, list sort (with user-selectable comparison function), generatecode, lambda functions, variable attributes.

All of that is much appreciated, Chris.

On Wednesday, October 15, 2014 8:49:56 AM UTC-7, Chris Torrence wrote:

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> Cheers,
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> Chris
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> 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:
> I was reading the what's new (<http://www.exelisvis.com/docs/WhatsNew.html>). There are lots of
wonderful new things!. Chris' post doesn't do justice. Some of the new features I have wanted for
a very long time: filter, map and reduce for hashes and lists, list sort (with user-selectable

comparison function), generatecode,lambda functions, variable attributes.

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> All of that is much appreciated, Chris.
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Thanks for the kind words! Please post here when you do exciting and cool things with the new features. I'm always interested in hearing about how people are using IDL, what kinds of data are being analyzed, different types of visualizations, etc. That's what keeps me coming into work every day. :-)

-Chris

Subject: Re: IDL 8.4 and ENVI 5.2
Posted by [penteado](#) on Thu, 16 Oct 2014 18:35:43 GMT
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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.

On Thursday, October 16, 2014 11:16:27 AM UTC-7, Chris Torrence wrote:

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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

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

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

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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/>

Seppure 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.aspx>

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.
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- > <http://exelisvis.com/Company/PressRoom/Blogs/IDLDatapoint.aspx>

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

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

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Subject: Re: IDL 8.4 and ENVI 5.2

Posted by [Michael Galloy](#) on Thu, 23 Oct 2014 05:16:39 GMT

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

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

Cheers,

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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 ExelisVIS 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:

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Subject: Re: IDL 8.4 and ENVI 5.2
Posted by [wilber jhon RETAMOZO](#) on Tue, 23 Dec 2014 23:12:42 GMT
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El miércoles, 15 de octubre de 2014 10:49:56 UTC-5, Chris Torrence escribió:
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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](#)

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>

>

> On Thursday, October 16, 2014 11:16:27 AM UTC-7, Chris Torrence wrote:

>> Thanks for the kind words! Please post here when you do exciting and cool things with the new features. I'm always interested in hearing about how people are using IDL, what kinds of data are being analyzed, different types of visualizations, etc. That's what keeps me coming into work every day. :-)

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

On Wednesday, 15 October 2014 16:49:56 UTC+1, 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:
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> <http://www.exelisvis.com/MyAccount/Downloads.aspx>
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> BigInteger class: Allows you to create and manipulate integer numbers of any size. For
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> b = BigInteger(2)^1279 - 1
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> Cheers,
> Chris
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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)
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> 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:

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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:

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

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

Cheers,
Chris
