Subject: Is the sky falling?

Posted by Helder Marchetto on Wed, 15 Jan 2014 13:20:39 GMT

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Hi,

I couldn't find any reference to explain this, so here is probably the typical beginners post. Why is does the INTARR(3,3)+1 expression result in a LONG array?

IDL> HELP, INTARR(3,3)+1 <Expression> LONG = Array[3, 3]

Shouldn't it be an integer array?

On the other hand:

IDL> HELP, INTARR(3,3)+1b <Expression> INT = Array[3, 3]

results in an integer array...

Where is the trick?

Regards, Helder

Subject: Re: Is the sky falling?

Posted by Moritz Fischer on Wed, 15 Jan 2014 13:30:26 GMT

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With IDL 8.2.3 on Solaris and 8.1 on Windows I get INTs in either case. Have you tried INTARR(3,3) + 1S?

Am 15.01.2014 14:20, schrieb Helder:

- > Hi, I couldn't find any reference to explain this, so here is
- > probably the typical beginners post. Why is does the INTARR(3,3)+1
- > expression result in a LONG array?

>

> IDL> HELP, INTARR(3,3)+1 < Expression> LONG = Array[3, 3]

> Shouldn't it be an integer array?

> On the other hand:

> IDL> HELP, INTARR(3,3)+1b <Expression> INT = Array[3, 3]

> results in an integer array...

> Where is the trick?> Regards, Helder

Subject: Re: Is the sky falling?
Posted by Matthew Argall on Wed, 15 Jan 2014 13:34:54 GMT
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> Why is does the INTARR(3,3)+1 expression result in a LONG array?

Check to see f "1" is a long integer by typing.

IDL> help, 1

If it is, maybe there is a "compile_opt" somewhere.

Subject: Re: Is the sky falling?

Posted by David Fanning on Wed, 15 Jan 2014 13:41:14 GMT

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Helder writes:

- > I couldn't find any reference to explain this, so here is probably the typical beginners post.
- > Why is does the INTARR(3,3)+1 expression result in a LONG array?

>

- > IDL> HELP, INTARR(3,3)+1
- > <Expression> LONG = Array[3, 3]

>

> Shouldn't it be an integer array?

I certainly get integers. Are you sure you don't have the INT32 compiler option on?

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.")

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On Wednesday, January 15, 2014 2:34:54 PM UTC+1, Matthew Argall wrote:
>> Why is does the INTARR(3,3)+1 expression result in a LONG array?
>
>
>
> Check to see f "1" is a long integer by typing.
>
>
>
> IDL> help, 1
>
> If it is, maybe there is a "compile_opt" somewhere.
Hi,
thanks for the answers.
Here is my situation:
IDL>!VERSION
{
  ARCH: "x86_64",
  OS: "Win32",
  OS_FAMILY: "Windows",
  OS_NAME: "Microsoft Windows",
  RELEASE: "8.3",
  BUILD_DATE: "Nov 15 2013",
  MEMORY BITS: 64,
  FILE OFFSET BITS: 64
IDL> HELP, 1
<Expression> INT
IDL> HELP, INTARR(3,3) + 1S
<Expression> INT
                      = Array[3, 3]
```

Ok,

it seems like Compile_opt is making this. I just noticed that I got this result while debugging through some code where the "Compile_Opt idl2" option was used.

This clears things out. From the IDL help:

"DEFINT32 — IDL should assume that lexical integer constants default to the 32-bit type rather than the usual default of 16-bit integers..."

My error. I forgot that

- 1) I was debugging
- 2) Compile_opt idl2 was on
- 3) That idl2 makes 32-bit default integers

Thanks for pointing this out.

Cheers,

h