Subject: Re: what is i in idl 4.0?

Posted by davidf on Mon, 09 Aug 1999 07:00:00 GMT

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John Stanly Videen (user@internet.com) writes:

```
> Does anyone know what the system variable representation for i is in idl
> 4.0?
>
> [ where i = sqrt(-1) ]
>
> In idl 3.6, it used to be !j, but this doesn't seem to work in 4.0....
>
> eg. this code works in 3.6, but not 4.0:
>
> phase=atan(imaginary(data_ref), float(data_ref))
> temp=exp(- phase *!j)
> data=temp*data
```

I've been hanging around IDL for a LONG time, but I've never heard of a system variable named !J. I'm going to guess that this was a system variable that a user created in a startup file in your IDL 3.6 distribution that is not being created in your IDL 4.0 distribution.

But then again, IDL 3.6 was s-o-o-o long ago, that maybe something like this did exist and I've forgotten about it. There are days I feel like I've forgotten more about IDL than I currently know. :-(

Cheers.

David

--

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

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Subject: Re: what is i in idl 4.0?

Posted by gurman on Tue, 10 Aug 1999 07:00:00 GMT

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In article <MPG.121944d029ce458c989885@news.frii.com>, davidf@dfanning.com (David Fanning) wrote:

- > But then again, IDL 3.6 was s-o-o-o long ago, that
- > maybe something like this did exist and I've forgotten
- > about it. There are days I feel like I've forgotten more
- > about IDL than I currently know. :-(

David -

I suspect that you've forgotten more about IDL than most of us lurkers will _ever_ know. :-)

Joe

--

| Joseph B. Gurman, NASA Goddard Space Flight Center, Solar Physics | Branch, Greenbelt MD 20771 USA / Federal employees are still | prohibited from holding opinions while at work. Therefore, any | opinions expressed herein are somebody else's.

Subject: Re: what is i in idl 4.0 ?
Posted by Richard G. French on Tue, 10 Aug 1999 07:00:00 GMT
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```
John Stanly Videen wrote: >
```

> Help, > _

> Does anyone know what the system variable representation for i is in idl

> 4.0?

> [where i = sqrt(-1)]

> In idl 3.6, it used to be !j, but this doesn't seem to work in 4.0....

> eg. this code works in 3.6, but not 4.0:

> eg. tills sode works in 6.5, but not 4.5.

> phase=atan(imaginary(data_ref), float(data_ref))
> temp=exp(- phase * !j)

> data=temp*data

> john

I agree with David Fanning. Try putting this in your startup file:

DEFSYSV,'!j',dcomplex([0.d0,1.d0])

then, for example, you can do

IDL> print,exp(!J*!dpi/4) (0.70710678, 0.70710678)

Dlck French