Subject: Re: Congrid problem
Posted by Craig Markwardt on Fri, 23 Feb 2001 13:53:50 GMT
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Jonathan Joseph < jj21@cornell.edu> writes:

- > I'm running IDL 5.3 on HP-UX and seeing the following
- > problem with congrid. I have a byte image that has large areas
- > of a particular solid color (a background color).
- > I rescale the image to be larger using congrid with the
- > /interp flag set. My nice solid areas of the background color,
- > which I would still expect to see unspoiled, now have artifacts
- > in them with value background\_color 1. This looks like a
- > bug. What's going on?

>

- > Here's an example that show's the problem:
- ... deleted ...

Your example doesn't have the artifact on Linux on IDL 5.2 and IDL 5.3. It sounds like a bug under HP-UX.

Craig

-----

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

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Subject: Re: Congrid problem

Posted by Paul van Delst on Fri, 23 Feb 2001 14:13:48 GMT

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Jonathan Joseph wrote:

>

- > I'm running IDL 5.3 on HP-UX and seeing the following
- > problem with congrid. I have a byte image that has large areas
- > of a particular solid color (a background color).
- > I rescale the image to be larger using congrid with the
- > /interp flag set. My nice solid areas of the background color,
- > which I would still expect to see unspoiled, now have artifacts
- > in them with value background\_color 1. This looks like a
- > bug. What's going on?

>

> Here's an example that show's the problem:

>

```
> IDL> a = bytarr(100,100) + 155b
> IDL> b = congrid(a,140,140,/interp)
> IDL> print, min(b), max(b)
> 154 155
> IDL> w = where(b eq 154, count)
> IDL> print, count
       3703
> IDL> tvscl, b eq 154 ;shows strange pattern of lines and dots
> I would expect b in this example to be filled only with value 155.
 Is this a bug or is there some other reason I am seeing this behavior?
 BTW: I see the exact same behavior with INT instead of BYTE.
>
> Thanks.
> -Jonathan
IDL> print, !version
{ x86 linux unix 5.4.1 Jan 16 2001
                                     32
                                           32}
IDL> a = bytarr(100,100) + 155b
IDL> b = congrid(a,140,140,/interp)
% Compiled module: CONGRID.
IDL> print, min(b), max(b)
155 155
IDL> w = where(b eq 154, count)
IDL> print, count
      0
                     A little learning is a dangerous thing;
```

Paul van Delst A little learning is a dangerous thing; CIMSS @ NOAA/NCEP Drink deep, or taste not the Pierian spring; Ph: (301)763-8000 x7274 There shallow draughts intoxicate the brain, Fax:(301)763-8545 And drinking largely sobers us again. pvandelst@ncep.noaa.gov Alexander Pope.

Subject: Re: Congrid problem
Posted by Jaco van Gorkom on Fri, 23 Feb 2001 14:32:02 GMT
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## Craig Markwardt wrote:

> Jonathan Joseph <jj21@cornell.edu> writes: >

>> I'm running IDL 5.3 on HP-UX and seeing the following

>> problem with congrid. I have a byte image that has large areas

- >> of a particular solid color (a background color).
- >> I rescale the image to be larger using congrid with the
- >> /interp flag set. My nice solid areas of the background color,
- >> which I would still expect to see unspoiled, now have artifacts
- >> in them with value background\_color 1. This looks like a
- >> bug. What's going on?

>>

- >> Here's an example that show's the problem:
- > ... deleted ...

>

- > Your example doesn't have the artifact on Linux on IDL 5.2 and IDL
- > 5.3. It sounds like a bug under HP-UX.

>

I can reproduce the problem on SunOS 2.7, running IDL 5.3 on a Sparc CPU.

Jaco

Subject: Re: Congrid problem

Posted by Alex Schuster on Fri, 23 Feb 2001 14:43:04 GMT

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Craig Markwardt wrote:

- > Your example doesn't have the artifact on Linux on IDL 5.2 and IDL
- > 5.3. It sounds like a bug under HP-UX.

I get the artifacts with IDL 5.0 to 5.2 on Sparc Solaris, but not with IDL 5.3 and Windows.

Alex

--

Alex Schuster Wonko@weird.cologne.de alex@pet.mpin-koeln.mpg.de

PGP Key available

Subject: Re: Congrid problem

Posted by pit on Fri, 23 Feb 2001 17:03:40 GMT

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- > IDL> print, !version
- > { x86 linux unix 5.4.1 Jan 16 2001 32 32}

```
> IDL> a = bytarr(100,100) + 155b
> IDL> b = congrid(a,140,140,/interp)
> % Compiled module: CONGRID.
> IDL> print, min(b), max(b)
> 155 155
> IDL> w = where(b eq 154, count)
> IDL> print,count
         0
Same here, { x86 linux unix 5.2 Oct 30 1998}
 Pit
                                 http://www.astro.uu.nl/~suetter
Dr. Peter "Pit" Suetterlin
Sterrenkundig Instituut Utrecht
Tel.: +31 (0)30 253 5225
                                   P.Suetterlin@astro.uu.nl
```