
Subject: Re: Congrid problem

Posted by [Craig Markwardt](#) on Fri, 23 Feb 2001 13:53:50 GMT

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

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

Subject: Re: Congrid problem

Posted by [Paul van Delst](#) on Fri, 23 Feb 2001 14:13:48 GMT

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

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
```

--

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

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

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 PGP Key available
alex@pet.mpin-koeln.mpg.de

Subject: Re: Congrid problem
Posted by [pit](#) on Fri, 23 Feb 2001 17:03:40 GMT
[View Forum Message](#) <> [Reply to Message](#)

Paul van Delst <pvandelst@ncep.noaa.gov> writes:

> 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

--

~~~~~  
~~~~~

Dr. Peter "Pit" Suetterlin	http://www.astro.uu.nl/~suetter
Sterrenkundig Instituut Utrecht	
Tel.: +31 (0)30 253 5225	P.Suetterlin@astro.uu.nl