Subject: Re: Works on Linux, not on MacOS
Posted by penteado on Thu, 04 Mar 2010 16:12:33 GMT
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On Mar 4, 12:59 pm, Gray <grayliketheco...@gmail.com> wrote:
> Hi all,
>
> I've come across a very strange problem. I'm using Astrolib's FIND
> procedure to look for objects in an image. When I run my program on
> my Linux work computer, it works; when I run it on my personal
> MacBook, it doesn't.

Have you compared the img arrays to see if they are the same? If they
are not, the issue is with readfits, not find. Is it a PowerPC IDL? If
so, maybe it is a byte order issue.

Subject: Re: Works on Linux, not on MacOS
Posted by Gray on Thu, 04 Mar 2010 18:03:39 GMT
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On Mar 4, 11:12 am, pp <pp.pente...@gmail.com> wrote:
> On Mar 4, 12:59 pm, Gray <grayliketheco...@gmail.com> wrote:
>
>> Hi all,
>
>> I've come across a very strange problem. I'm using Astrolib's FIND
>> procedure to look for objects in an image. When I run my program on
>> my Linux work computer, it works; when I run it on my personal
>> MacBook, it doesn't.
>
> Have you compared the img arrays to see if they are the same? If they
> are not, the issue is with readfits, not find. Is it a PowerPC IDL? If
> so, maybe it is a byte order issue.

Great suggestion! I checked, and the two img arrays are different.
It turns out that the version of readfits I was using on the Mac was
newer than the Linux version. I copied the older version onto the
Mac, and ran my checks again. Same results w/ find & readfits. Why
is readfits not working??

Subject: Re: Works on Linux, not on MacOS
Posted by wlandsman on Thu, 04 Mar 2010 18:21:59 GMT
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On Mar 4, 1:03 pm, Gray <grayliketheco...@gmail.com> wrote:

> Great suggestion! I checked, and the two img arrays are different.
> It turns out that the version of readfits I was using on the Mac was
> newer than the Linux version. I copied the older version onto the
> Mac, and ran my checks again. Same results w/ find & readfits. Why
> is readfits not working??

How are the img arrays different? Are they different sizes? Are they different types (integer vs. floating point)? Does one image have NaN values and the other doesn't? Do both images display properly? Are the pixels values at the same location slightly different? or very different?

Are you sure you have the same file on both computers? --Wayne

---

Subject: Re: Works on Linux, not on MacOS
Posted by wallabadah on Thu, 04 Mar 2010 23:02:36 GMT
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On Mar 5, 5:21 am, wlandsman <wlands...@gmail.com> wrote:
> On Mar 4, 1:03 pm, Gray <grayliketheco...@gmail.com> wrote:
>
>> Great suggestion! I checked, and the two img arrays are different.
>> It turns out that the version of readfits I was using on the Mac was
>> newer than the Linux version. I copied the older version onto the
>> Mac, and ran my checks again. Same results w/ find & readfits. Why
>> is readfits not working??
>
> How are the img arrays different? Are they different sizes? Are
> they different types (integer vs. floating point)? Does one image
> have NaN values and the other doesn't? Do both images display
> properly? Are the pixels values at the same location slightly
> different? or very different?
>
> Are you sure you have the same file on both computers? --Wayne

If the Mac is a MacBook (not a PowerBook), then it has an intel processor, so byte ordering should not be an issue.

Will.

Subject: Re: Works on Linux, not on MacOS
Posted by penteado on Fri, 05 Mar 2010 00:03:37 GMT
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On Mar 4, 8:02 pm, wallabadah <write.to.wpow...@gmail.com> wrote:
> If the Mac is a MacBook (not a PowerBook), then it has an intel
> processor, so byte ordering should not be an issue.

That does not mean he is not running the PPC IDL. The documentation is
not clear whether things like the swap_if_little_endian keywords cause
a decision based on the host platform, or the IDL binary in use.

Subject: Re: Works on Linux, not on MacOS
Posted by Gray on Fri, 05 Mar 2010 03:45:50 GMT
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On Mar 4, 1:21 pm, wlandsman <wlands...@gmail.com> wrote:
> On Mar 4, 1:03 pm, Gray <grayliketheco...@gmail.com> wrote:
>
>> Great suggestion! I checked, and the two img arrays are different.
>> It turns out that the version of readfits I was using on the Mac was
>> newer than the Linux version. I copied the older version onto the
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> How are the img arrays different? Are they different sizes? Are
> they different types (integer vs. floating point)? Does one image
> have NaN values and the other doesn't? Do both images display
> properly? Are the pixels values at the same location slightly
> different? or very different?
>
> Are you sure you have the same file on both computers? --Wayne

Ack! I figured out that readfits is working fine and the same in both
cases - I had an issue in how I compared the two arrays that led me to
my last post. However, they are the same, so it is FIND that is the
problem, not readfits.

Subject: Re: Works on Linux, not on MacOS
Posted by Gray on Fri, 05 Mar 2010 03:49:52 GMT
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On Mar 4, 7:03 pm, pp <pp.pente...@gmail.com> wrote:
> On Mar 4, 8:02 pm, wallabadah <write.to.wpow...@gmail.com> wrote:
>
>> If the Mac is a MacBook (not a PowerBook), then it has an intel
>> processor, so byte ordering should not be an issue.
>
> That does not mean he is not running the PPC IDL. The documentation is

> not clear whether things like the swap_if_little_endian keywords cause
> a decision based on the host platform, or the IDL binary in use.

How do I find out which build I'm running? I looked through the config details on the "About IDL Workbench" splash screen, but I didn't see anything that would indicate either way.
