
Subject: Re: Sanity Check

Posted by [Peter Mason](#) on Tue, 04 May 2004 21:43:45 GMT

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David Fanning wrote:

> Folks,
>
> OK, I've looked this up for the last time! I'm writing it
> down. I just want to be sure I'm right about this.
>
> Pixel-interleaved image: BIP: 3-m-n.
> Row-interleaved image: BIL: m-3-n.
> Band-interleaved image: BSQ: m-n-3.
>
> And,
>
> m = column = sample
> n = row = line
> 3 = dim = band
>
> Does that look right to you? :-(
>
> Cheers,
>
> David

Pretty much, except for the descriptions.

BIP is also (?) known as "band interleaved by pixel", BIL as "band interleaved by line" and BSQ as "band sequential".

To be pedantic, a 3-band BIL INT image (for example) takes the form of `IMG = INTARR(m,3,n)` in IDL. (Remember that in IDL, `IMG[i, j, k]` is adjacent to `IMG[i+1, j, k]` in memory.)

Logically, there are three additional ways to arrange a 3D image but I haven't ever encountered any such myself. It's always been "across and then down".

Subject: Re: Sanity Check

Posted by [David Fanning](#) on Tue, 04 May 2004 21:58:28 GMT

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Peter Mason writes:

> To be pedantic, a 3-band BIL INT image (for example) takes the form of `IMG = INTARR(m,3,n)` in IDL. (Remember that in IDL, `IMG[i, j, k]` is adjacent to `IMG[i+1, j, k]` in memory.)

Oh, it hurts my head to even think of what that means for a BIP image. :-(

Anyway, I've got a (pedantic) page now so I can remember it all:

http://www.dfanning.com/ip_tips/where3.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

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

Subject: Re: Sanity Check

Posted by [timrobshaw](#) on Tue, 04 May 2004 23:25:08 GMT

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David Fanning <david@dfanning.com> wrote in message

- > Pixel-interleaved image: BIP: 3-m-n.
- > Row-interleaved image: BIL: m-3-n.
- > Band-interleaved image: BSQ: m-n-3.

> Does that look right to you? :-(

Fo' shizzle. -TDogg. [Yes. -Tim.]

Subject: Re: Sanity Check

Posted by [David Fanning](#) on Tue, 04 May 2004 23:44:44 GMT

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Tim Robshaw writes:

> Fo' shizzle. -TDogg. [Yes. -Tim.]

As I travel lately, I have become increasingly aware of what a melting pot America is. This is certainly the best part of America, and it made a recent trip to New York City unbelievably exciting.

But as I grow older (and perhaps as my hearing

becomes less acute), I find that I am increasingly baffled at conversations with security guards, cab drivers, cashiers, anyone working in a fast food restaurant, and -- yes, even with teenagers. What language are these people speaking!?

And now the newsgroup. Sigh... :-(

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

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

Subject: Re: Sanity Check

Posted by [Michael Wallace](#) on Wed, 05 May 2004 03:03:18 GMT

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>> Fo' shizzle. -TDogg. [Yes. -Tim.]

>

>

> As I travel lately, I have become increasingly aware of
> what a melting pot America is. This is certainly the
> best part of America, and it made a recent trip to
> New York City unbelievably exciting.

>

> But as I grow older (and perhaps as my hearing
> becomes less acute), I find that I am increasingly
> baffled at conversations with security guards, cab drivers,
> cashiers, anyone working in a fast food restaurant,
> and -- yes, even with teenagers. What language
> are these people speaking!?

I pity da fool who ain't got time for learnin' jibba-jabba. ;-)

-Mike