Subject: RPC00B File Format
Posted by Mort Canty on Mon, 16 Aug 2004 18:06:06 GMT
View Forum Message <> Reply to Message

Hi all,

Probably not a good place to ask this, but I'm lost. Is anyone familiar
with RPC00B files, which give rational polynomial coefficient
approximations to camera models (in this case for satellite imagery)
relating 2D image to 3D object space. I have the coefficients from my
image provider in RPC00B format, but I don't know the order of the (in
this case cubic) polynomial terms in X, Y, Z (longitude, latitude,
elevation) which corresponds to the coefficient vectors. Is it

$$a0 + a1*X + a2*Y + a3*Z + a4*X*Y + ... + a19*Z*Z*Z$$

or some other of many conceivable permutations?

Thanks

Mort Canty

Subject: Re: RPC00B File Format
Posted by Mort Canty on Fri, 20 Aug 2004 13:23:27 GMT
View Forum Message <> Reply to Message

I finally got the info from the image provider. So you can all stop
bombarding me with answers :o)

Mort

"Mort Canty" <m.canty@fz-juelich.de> schrieb im Newsbeitrag
news:cfqt2e$4r1j$1@zam602.zam.kfa-juelich.de...
> Hi all,
>
> Probably not a good place to ask this, but I'm lost. Is anyone familiar
> with RPC00B files, which give rational polynomial coefficient
> approximations to camera models (in this case for satellite imagery)
> relating 2D image to 3D object space. I have the coefficients from my
> image provider in RPC00B format, but I don't know the order of the (in
> this case cubic) polynomial terms in X, Y, Z (longitude, latitude,
> elevation) which corresponds to the coefficient vectors. Is it
>
> a0 + a1*X + a2*Y + a3*Z + a4*X*Y + ... + a19*Z*Z*Z
>
> or some other of many conceivable permutations?

>
> Thanks
>
> Mort Canty

Subject: Re: RPC00B File Format
Posted by David Fanning on Fri, 20 Aug 2004 13:39:39 GMT
View Forum Message <> Reply to Message

Mort Canty writes:

> I finally got the info from the image provider. So you can all stop
> bombarding me with answers :o)

Oh, sarcasm never works with this bunch. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: RPC00B File Format
Posted by Mort Canty on Fri, 20 Aug 2004 13:50:56 GMT
View Forum Message <> Reply to Message

> Oh, sarcasm never works with this bunch. :-)
>
> Cheers,
>
> David
>

Sorry, David (and others). Was just trying to be funny, not sarcastic. (The
question was way off-beat.) It's a wonderful group.

- Mort

> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.

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

Subject: Re: RPC00B File Format
Posted by David Fanning on Fri, 20 Aug 2004 14:00:21 GMT
View Forum Message <> Reply to Message

Mort Canty writes:

> Sorry, David (and others). Was just trying to be funny, not sarcastic. (The
> question was way off-beat.) It's a wonderful group.

Oh, goodness, no, I didn't think you were serious.
And, anyway, you had the required emotican to
indicate your intentions. You were perfectly safe. :-)

Cheers,

David

P.S. Let's just say it was pointed out to me again this
week how some people on this newsgroup just don't "get"
my style of discourse. Striving for the humorous is
(apparently) a minefield of danger. But how boring
to live life from a position of safety. It should
always be an adventure. One of my best friends
is totally sarcastic. It's just about the best thing
about him. :-)

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: RPC00B File Format
Posted by R.G. Stockwell on Fri, 20 Aug 2004 16:28:49 GMT
View Forum Message <> Reply to Message

"David Fanning" <davidf@dfanning.com> wrote in message
news:MPG.1b8fb1e0f810e059989844@news.frii.com...
> P.S. Let's just say it was pointed out to me again this
> week how some people on this newsgroup just don't "get"
> my style of discourse. Striving for the humorous is
> (apparently) a minefield of danger. But how boring
> to live life from a position of safety. It should
> always be an adventure. One of my best friends

> is totally sarcastic. It's just about the best thing
> about him. :-)

Perhaps the winking smiley will help ;)

Subject: Re: RPC00B File Format
Posted by Mort Canty on Fri, 20 Aug 2004 17:50:29 GMT
View Forum Message <> Reply to Message

David Fanning wrote:

>
>
> P.S. Let's just say it was pointed out to me again this
> week how some people on this newsgroup just don't "get"
> my style of discourse. Striving for the humorous is
> (apparently) a minefield of danger. But how boring
> to live life from a position of safety. It should
> always be an adventure. One of my best friends
> is totally sarcastic. It's just about the best thing
> about him. :-)

Irony is dangerous too. I once tried to mimic the male chauvinist in a
textbook I wrote. I thought it was obviously tongue in cheek. Got
accused by a reviewer of being a male chauvinist. I guess the problem
was, he couldn't see my cheek!

Mort

Subject: Re: RPC00B File Format
Posted by David Fanning on Fri, 20 Aug 2004 19:29:11 GMT
View Forum Message <> Reply to Message

Mort Canty writes:

> Irony is dangerous too. I once tried to mimic the male chauvinist in a
> textbook I wrote. I thought it was obviously tongue in cheek. Got
> accused by a reviewer of being a male chauvinist. I guess the problem
> was, he couldn't see my cheek!

It helps to have a Coyote as an alter ego. Lord knows,
you can always blame it on him!

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/