
Subject: Re: Error on Orthorectification

Posted by [Martin Schultz](#) on Wed, 15 Mar 2000 08:00:00 GMT

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rappold@zedat.fu-berlin.de wrote:

>
> Hi,
>
> sometimes it might just a little step but I'm digging in the dark:
>
> I try to rectify an orthophoto on a DEM. I always get the error:
>
> Air Photo Ortho:
> An error has occurred during processing.
> Error: "Negative position argument not allowed: -2147325586"
> The result may be invalid
>
> The resulting ortho photo is 2 GB, the original tiff image was 35 MB!
>
> I checked all Parameter but I can't find the mistake.
>
> Does somebody has an idea?
>
> Gerhard
>

This smells like some INT - LONG - LONG64 confusion. Note that

-2.147.325.586 is

pretty close to 2.147.483.647 which is the maximum a `_signed_ LONG` can handle. Now, I don't know what orthorectification and DEM stand for, but

I would dare to guess that

the process involves a substantial blow-up of the original image, since 35MB leave you with a "safety margin" of almost a hundred. A very typical error occurs with loops:

```
for i=0,N_elements(image)
```

loops over a 2 BYTE integer even though `N_Elements` returns a LONG value.

You have to

force the type of the looping variable via

```
for i=0L, ...
```

```
or even
```

```
for i=0LL,...
```

That's about how far I can guess without seeing any of the source.

Good luck,
Martin

PS: general debugging tip: sprinkle your code with HELP and PRINT
statements and make sure you see what you want to see at every stage.

```
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