Subject: Re: Error on Orthorectification Posted by Martin Schultz on Wed, 15 Mar 2000 08:00:00 GMT View Forum Message <> Reply to Message

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 occured during processing.
>
   Error: "Negative positon 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.