## Subject: LABEL_REGION on large array --> segmentation fault, please HELP !!
Posted by Danxia on Tue, 10 Sep 2013 20:50:29 GMT

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Dear all,

I have a very large binary array with around [60000 by 90000] elements whose file size is about 5GB. I hope to apply LABEL_REGION function on this array to extract "connected" patches. My IDL code was run on a linux machine with 64GB memory. But IDL kept crashing when running through LABEL_REGION function, ending up with error message of "segmentation fault". I'm wondering if IDL has any limitation the size of array that a function can handle? Or this crashing is caused by configuration of my machine? Any idea how to this problem will be appreciated!!

## Subject: Re: LABEL_REGION on large array --> segmentation fault, please HELP !!
Posted by chris_torrence@NOSPAM on Wed, 11 Sep 2013 01:28:59 GMT

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On Tuesday, September 10, 2013 2:50:29 PM UTC-6, Daisy wrote:
> Dear all,
>
>
>
> I have a very large binary array with around [60000 by 90000] elements whose file size is about 5GB. I hope to apply LABEL_REGION function on this array to extract "connected" patches. My IDL code was run on a linux machine with 64GB memory. But IDL kept crashing when running through LABEL_REGION function, ending up with error message of "segmentation fault". I'm wondering if IDL has any limitation the size of array that a function can handle? Or this crashing is caused by configuration of my machine? Any idea how to this problem will be appreciated!!

Hi Daisy,

There is a known bug with LABEL_REGION (bug #IDL-68761), where it is not able to handle 64-bit memory addresses. Currently, you can only use the function for arrays that are less than 2 Gb in size. I am hoping to fix this bug in IDL 8.3, which is due out later this fall.

Cheers,
Chris
ExelisVIS

## Subject: Re: LABEL_REGION on large array --> segmentation fault, please HELP !!
Posted by chris_torrence@NOSPAM on Wed, 11 Sep 2013 19:01:25 GMT

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This has now been fixed for IDL 8.3.
Cheers,

Chris
ExelisVIS

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## Subject: Re: LABEL_REGION on large array --> segmentation fault, please HELP !!
Posted by Danxia on Wed, 11 Sep 2013 20:46:16 GMT

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On Wednesday, September 11, 2013 3:01:25 PM UTC-4, Chris Torrence wrote:
> This has now been fixed for IDL 8.3.
>
> Cheers,
>
> Chris
>
> ExelisVIS

Hi Chris,

Thank you very much for your prompt response. So now I'm looking forward to this upcoming version of IDL very much!

Best,
Daisy

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