
Subject: Re: How to allocate memory for an array of more than 2G

Posted by [minchen](#) on Wed, 14 Jul 2010 22:14:19 GMT

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Hi Bob,

Thanks a lot!

I cannot do this:

```
IDL> a=bytarr(1024,1024,1024)
```

```
IDL> b=bytarr(1024,1024,1024)
```

```
IDL> c=bytarr(1024,1024,1024)
```

```
IDL> d=bytarr(1024,1024,1024)
```

```
IDL> help,/mem
```

on my system. It is a 64 bit linux system and the memory is 64G.

Is there a limitation of the virtual memory which is related to this one? If so, how can I do it?

Thanks a lot!

On Jul 13, 8:45 pm, "R.G. Stockwell" <noem...@please.com> wrote:

> "NEW-IDL-USER" <mchen...@gmail.com> wrote in message

>
> news:c5a17126-f507-41bf-84d9-6260b9f0ec33@i18g2000pro.google groups.com...

>

>

>

>

>

>> Hi,

>> I have a trouble to read a .h5 file which is about 3G.

>> I am using {x86_64 linux unix linux 7.1.1 Aug 21 2009 64 64} IDL. So

>> you see, my system is 64 bit and IDL is also 64 bit. The problem I

>> cannot allocate a memory for an array more than 2G. I do not know why?

>> Can someone help me?

>> Thanks a lot!

>

>> IDL> help,/memory

>> heap memory used: 818394, max: 1074560678, gets: 1069,

>> frees: 258

>> IDL> a=bytarr(1024,1024,1024)

>> IDL> help,/memory

>> heap memory used: 1074560268, max: 1074560367, gets: 1081,

>> frees: 269

>> IDL> a=bytarr(1024,1024,1024)

```
>> % Unable to allocate memory: to make array.
>> Cannot allocate memory
>
> Hello New,
> I have no idea why you cannot allocate that memory.
> In fact, you call a = bytarr() twice, so it looks like you can
> only allocate one gig. How much memory is on your machine?
>
> And are there quotas involved on the IDL process (perhaps you should
> ask your sys admin).
>
> for instance, you should be able to do this.
>
> IDL> a=bytarr(1024,1024,1024)
> IDL> b=bytarr(1024,1024,1024)
> IDL> c=bytarr(1024,1024,1024)
> IDL> d=bytarr(1024,1024,1024)
> IDL> help,/mem
> heap memory used: 4303438407, max: 4303438540, gets: 107997, frees:
> 98790
> IDL> e=bytarr(1024,1024,1024)
> IDL> f=bytarr(1024,1024,1024)
> IDL> help,/mem
> heap memory used: 6450922396, max: 6450922529, gets: 108015, frees:
> 98806
>
> cheers,
> bob- Hide quoted text -
>
> - Show quoted text -
```
