Subject: Re: Unable to allocate memory
Posted by sivan on Tue, 10 Sep 2013 20:43:13 GMT
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Thanks for the information.
I have missed the point.

On Tuesday, September 10, 2013 11:02:01 PM UTC+3, suicida...@gmail.com wrote:
> On Tuesday, September 10, 2013 1:57:48 PM UTC-6, sivan wrote:
>
>> Hi all,
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>> I know there are plenty of topics corresponding to this problem but I did not find a clear answer.
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>> I wrote:
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>> IDL> logage=dblarr(1259200)
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>
>> IDL> number=91
>
>>
>
>> IDL> ologlum=9.0d*(findgen(number))/(number-1)-3
>
>>
>
>> IDL> loglm=dblarr(1259200)
>
>>
>
>> IDL> likelihood=dblarr(1259200)

>
>>
>
>> IDL> g1=transpose(ologlum##replicate(1d,n_elements(logage)))
>
>>
>
>> IDL> g2=loglm#replicate(1d,n_elements(logage))
>
>>
>
>> % Unable to allocate memory: to make array.
>
>>
>
>> Cannot allocate memory
>
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>
>> % Execution halted at: $MAIN$
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>
>> I also tried these:
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>
>> IDL> g1=transpose(temporary(ologlum)##temporary(replicate(1d,n_el ements(logage))))
>
>>
>
>> IDL> g2=temporary(loglm)#temporary(replicate(1d,n_elements(logage)))
>
>>
>
>> % Unable to allocate memory: to make array.
>
>>
>
>> Cannot allocate memory

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>
>> % Execution halted at: $MAIN$
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>> It doesn't change anything.
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>> I use Ubuntu 12.04.03 (amd64), 8GB RAM and IDL 7.1.1.
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>> I hope there is a solution to this problem.
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>> Thanks in advice,
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>> Sivan.
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> The error message is pretty self-explanitory...you don't have enough memory.
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>
> "#" performs a matrix multiplication. The number of elements in the result is the product of the number of elements in the inputs. Your g2=loglm#replicate(1d,n_elements(logage)) command would result in a 1259200x1259200 = 1585584640000 element array as the output. At double precision (8 bytes per element), that would require nearly 12 TB (yes, terabytes) of RAM to hold.