Subject: HELP> Unable to allocate memory: to make array.
Posted by burel on Fri, 28 May 1993 19:35:08 GMT
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HELP!

I am trying to do an FFT on a large image (6000x6000 byte) and about
20 minutes into the procedure I get this error:

% Unable to allocate memory: to make array.
Not enough space

Is this a PV-Wave problem or a procedure problem? I'm running PV-Wave 4.01
on an SGI 340 VGX with 256 Meg RAM and 338 MB Swap (694040 blocks) What can
I do to get around this problem?

Thanks for any help

Jon
--

========= Jonathan Burelbach (burel@highwire.gsfc.nasa.gov) ========
NASA / Goddard Space Flight Center Phone: (301) 286-6166
MODIS Characterization Support Team Fax: (301) 286-9200
Code 925
Greenbelt, MD 20771

Subject: Re: % Unable to allocate memory: to make array.
Posted by David Foster on Thu, 20 Mar 1997 08:00:00 GMT
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buzzcut wrote:
>
> Are there anyways around this error besides .size 65000 65000?
> Any useful tips?
>
> % Unable to allocate memory: to make array.
> not enough core

Supposedly IDL 5.0 is removing these restrictions. Does that
command really prevent your error? If so, you must be exceeding
the amount of space available for the symbol table in the data
area of your program, something I've never seen except at the
$MAIN level.

Dave
--

~~~~~~ ~~~~~~~
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Subject: Re: % Unable to allocate memory: to make array.
Posted by thompson on Thu, 20 Mar 1997 08:00:00 GMT
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davidf@dfanning.com (David Fanning) writes:

> buzzcut <buzzcut@highland.com> wrote:

>> Are there anyways around this error besides .size 65000 65000?
>> Any useful tips?
>>
>> % Unable to allocate memory: to make array.
>> not enough core

> Allocate more virtual memory to your IDL process.

I don't believe that the .size command is relevant to the "not enough core" error message. As I understand it, this cannot be solved at the user level, but must be addressed at the system manager level. Either one needs to create more swap space, or increase the user's quota if the machine uses process quotas. I know that the latter is true on VMS systems, but I don't think it's generally true under Unix. I don't know about Windows or MacOS.

Bill Thompson

Subject: Re: % Unable to allocate memory: to make array.
Posted by steinhh on Fri, 21 Mar 1997 08:00:00 GMT
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In article <5grkoh$etm@post.gsfc.nasa.gov>, thompson@orpheus.nascom.nasa.gov (William Thompson) writes:
|> davidf@dfanning.com (David Fanning) writes:
|>
|> >buzzcut <buzzcut@highland.com> wrote:
|>

|> >> Are there anyways around this error besides .size 65000 65000?
|> >> Any useful tips?
|> >>
|> >> % Unable to allocate memory: to make array.
|> >> not enough core
|>
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|> but must be addressed at the system manager level. Either one needs to create
|> more swap space, or increase the user's quota if the machine uses process
|> quotas. I know that the latter is true on VMS systems, but I don't think it's
|> generally true under Unix. I don't know about Windows or MacOS.
|>

Under e.g., Digital UNIX, this problem may also be artificially imposed on
a process by software limits on memory use, maintaned by the user's shell - e.g.,

```
unix> limit
cputime         unlimited
filesize        unlimited
datasize        131072 kbytes
stacksize       2048 kbytes
coredumpsize    0 kbytes
memoryuse       90200 kbytes
vmemoryuse      1048576 kbytes
descriptors     4096
```

The limits may be changed by e.g.,

```
unix> limit datasize 1024m
```

which gives the child processes an allowed data size of 1 Gbyte.

I'd also like to point out the use of the coredumpsize, which disallows
any core dumps when set to zero - how often do you actually *use* those
humongous files, anyway....

Stein Vidar Haugan
