## Subject: Re: Memory management by 5.4 on Sunblade Posted by weitkamp on Thu, 20 Dec 2001 10:36:01 GMT

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Craig Markwardt <craigmnet@cow.physics.wisc.edu> wrote in message
news:<onn10etp7t.fsf@cow.physics.wisc.edu>...
> JD Smith <idsmith@astro.cornell.edu> writes:
>> Timm Weitkamp wrote:
>>>
>>> Hi,
>>>
>>> I'm mostly using IDL 5.4 on my laboratory's Linux86 cluster, and
>>> running memory-critical simulation code on it which uses lots of large
>>> temporary arrays.
>>>
>
>>> However, I noticed that memory management by IDL 5.4 on the Sunblade
>>> is extremely poor in that variable space "freed" by TEMPORARY, DELVAR,
>>> or simply by dynamic resizing of a variable is not actually freed but
>>> kept allocated (so tells me "top").
>
>>
>> It's not a *bug*, it's a *feature*. IDL allocates memory as necessary
>> from the OS, and then, even if it doesn't need it any more, hangs onto
>> it just in case. This is true I think on all platforms, and all recent
>> versions of IDL. You still have the memory available, just not to the
>> system as a whole.
> Hi JD--
>
> I do not think this is always true. I find that I regularly create
> 300 MB arrays in memory, and then free them. While the procedure is
> running, the memory usage is indeed around 300 MB, but afterwards the
> memory use, as reported by the external program "top", drops down
> again to the quiescent level.
>
> [...]
This is pretty much exactly the kind of thing my programs do too. On
x86 Linux all unused memory is given back to the system, on
```

Sunblade/Solaris it isn't. You may call it a feature, but I think it is one that may cause big problems. JD, what kind of platform are you using that one shouldn't buy? :-)

Timm