

Re: question concerning proper usage of kernel variables net.bpf.bufsize and vm_kmem_size_max

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Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2006-07/msg00039.html>

- *From:* "Raymond Owens" <owensr@xxxxxxxxxxx>
 - *Date:* Fri, 28 Jul 2006 20:02:54 -0400
-

Sir,

By hardware cache size, you are referring to the processor cache? If the box has two processors, should the value used for cache size in this calculation be doubled? In very general terms, what is the link between the net.bpf.bufsize and the cache? Thanks for info..

R. B. Riddick wrote:

>--- Raymond Owens <owensr@xxxxxxxxxxx> wrote:

>

>

>>Questions:

>>Can VM_KMEM_SIZE_MAX be set manually with sysctl?

>>

>>

>>

>No, but you could set it with this procedure:

>1. Insert the lines

> vm.kmem_size=123456789

> vm.kmem_size_max=1234567890

>in

> /boot/loader.conf

>

>2. reboot

>

>That should change those values...

>(see src/sys/kern/kern_malloc.c)

>

>I wonder, why your box needs such a big buffer? Do u have network traffic

>bursts or so?

>

>

Regardless what purpose is for, the net.bpf.bufsize should never set above hardware cache size. The best (optimal size) is 50% – 80% of the hardware cache size, unless original BPF is modified in some way I do not know.

Such high bufsize will degrade performance.

Re: question concerning proper usage of kernel variables net.bpf.bufsize and vm_kmem_size_max1

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Re: question concerning proper usage of kernel variables net.bpf.bufsize and vm_kmem_size_max2