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Subject: Re: cryo and mm->arg\_start  
Posted by [Matt Helsley](#) on Fri, 11 Jul 2008 22:01:13 GMT  
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On Fri, 2008-07-11 at 09:38 -0700, Dave Hansen wrote:  
> On Fri, 2008-07-11 at 08:13 -0500, Serge E. Hallyn wrote:  
> >  
> > One thing we could do here is to start extending the cryo approach  
> > with Eric's checkpoint-as-a-coredump (caac?). We generate the  
> > tiniest of coredumps which, at first, contains nothing but  
> > mm->arg\_start and maybe a process id. It would be simplest if  
> > it also contained a filename for the real executable,  
>  
> The exec model sounds reasonable to me.  
>  
> But, I think the filename of the exe is going to have to be in the  
> checkpoint \*already\*. It is mapped by at least one of the VMAs, and  
> will probably be dumped as a normal file-backed area.

Yes, the file that backed the exec will be there. Note that thanks to "stacking" filesystems the path to the file backing the exe is not \_always\_ going to be the same as the path to the file which userspace exec'd in the first place. You can see this by comparing the /proc/<pid>/exe symlink with the file backing the VMA.

This is important to any program which checks the /proc/self/exe symlink to find out where it's installed (Java does this, for example). I think it's possible to do this with a binfmt -- it's just one more detail to remember.

Cheers,  
-Matt

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