Subject: Re: [PATCH 1/2] cryo: re-enable checkpointing of thread area
Posted by serue on Wed, 11 Jun 2008 15:28:06 GMT
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Quoting Benjamin Thery (benjamin.thery@bull.net):
> This patch re-enable the code that checkpoints (and restore) and thread
> area (ldt) using ptrace_get_thread_area(). This is seem to improve the
> situation a lot on systems with NPTL: it solved one of the general
> protection fault I had when restarting a program.
>
> Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>

Benjamin, you rock. This fixes my kvm image as well.

Nadia, Suka, could you confirm that this does *not* break cryo on your
systems?

Patched added to git tree.

thanks,
-serge

> ---
> cr.c | 17 ++++++++---------
> 1 file changed, 8 insertions(+), 9 deletions(-)
>
> Index: cryodev/cr.c
> ===
> --- cryodev.orig/cr.c
> +++ cryodev/cr.c
> @@ -24,7 +24,7 @@
> #include <signal.h>
> #include <errno.h>
>
> -#include <asm/ldt.h> /* for redhat 9.0, NPTL */
> +#include <asm/ldt.h> /* for NPTL */
>
> #include "utils.h"
> #include "sci.h"
> @@ -513,14 +513,12 @@ static int save_process_data(pid_t pid,
> return 0;
> }
>
> - /* This is required in redhat9 */
> -#if 0
> + /* This is required for NPTL */
> {
> - modify_ldt_t ldt;

```
> +  struct user_desc ldt;
>    if (ptrace_get_thread_area(pid, &ldt) == 0)
>     write_item(fd, "ldt", (void *)&ldt, sizeof(ldt));
>   }
> -#endif
>
>   snprintf(fname, sizeof(fname), "/proc/%u/exe", pid);
>   memset(exe, 0, sizeof(exe));
> @@ -1237,7 +1235,7 @@ static int process_restart(int fd, int m
>   char *exe = NULL, *cwd = NULL, *sargv = NULL, *senv = NULL;
>   struct user_regs_struct *regs = NULL;
>   struct user_fpregs_struct *fpregs = NULL;
> - //modify_ldt_t *ldt = NULL;
> + struct user_desc *ldt = NULL;
>   int *exitsig = NULL;
>   sigset_t *sigmask = NULL, *sigpend = NULL;
>   struct sigaction *sigact = NULL;
> @@ -1262,7 +1260,7 @@ static int process_restart(int fd, int m
>     Free(senv);
>     Free(regs);
>     Free(fpregs);
> -   //Free(ldt);
> +   Free(ldt);
>     Free(sigact);
>     Free(sigmask);
>     Free(sigpend);
> @@ -1276,7 +1274,7 @@ static int process_restart(int fd, int m
>    else ITEM_SET(cwd, char);
>    else ITEM_SET(regs, struct user_regs_struct);
>    else ITEM_SET(fpregs, struct user_fpregs_struct);
> -  //else ITEM_SET(ldt, modify_ldt_t);
> +  else ITEM_SET(ldt, struct user_desc);
>    else ITEM_SET(sigact, struct sigaction);
>    else ITEM_SET(sigmask, sigset_t);
>    else ITEM_SET(sigpend, sigset_t);
> @@ -1304,7 +1302,8 @@ static int process_restart(int fd, int m
>      ERROR("lh_hash_add(%p, %u, %p)\n", &hpid, (unsigned)*pid, (void *)npid);
>      return -1;
>     }
> -   //if (ldt) ptrace_set_thread_area(npid, ldt);
> +   if (ldt)
> +    ptrace_set_thread_area(npid, ldt);
>     if (cwd) PT_CHDIR(npid, cwd);
>     restore_fd(fd, npid);
>    } else if (ITEM_IS("SOCK")) {
>
> --
```

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