
Subject: [PATCH 1/2] cryo: re-enable checkpointing of thread area
Posted by [Benjamin Thery](#) on Wed, 11 Jun 2008 14:14:00 GMT
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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>

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;
```

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- //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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