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>
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 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(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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