
Subject: [PATCH 05/11] restart: obtain pid_max from /proc/sys/kernel/pid_max
Posted by [Oren Laadan](#) on Mon, 07 Feb 2011 17:21:26 GMT
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restart.c | 19 ++++++++
1 files changed, 17 insertions(+), 2 deletions(-)

diff --git a/restart.c b/restart.c
index a1af631..05d101b 100644

--- a/restart.c

+++ b/restart.c

@@ -158,6 +158,9 @@ struct ckpt_ctx {
 struct cr_restart_args *args;

char *freezer;
+
+ /* system limits */
+ pid_t pid_max;
};

struct pid_swap {
@@ -489,6 +492,9 @@ int process_args(struct cr_restart_args *args)

static void init_ctx(struct ckpt_ctx *ctx)
{
+ FILE *file;
+ char buf[1024];
+
 memset(ctx, 0, sizeof(*ctx));

/* mark all fds as unused */
@@ -500,6 +506,15 @@ static void init_ctx(struct ckpt_ctx *ctx)
 ctx->pipe_feed[1] = -1;
 ctx->pipe_coord[0] = -1;
 ctx->pipe_coord[1] = -1;
+
+ /* system limits */
+ ctx->pid_max = SHRT_MAX; /* default */
+ file = fopen("/proc/sys/kernel/pid_max", "r");
+ if (file) {
+ if (fgets(buf, 1024, file))
+ ctx->pid_max = atoi(buf);
+ fclose(file);
+ }
}

```

static void exit_ctx(struct ckpt_ctx *ctx)
@@ -1223,12 +1238,12 @@ static int ckpt_alloc_pid(struct ckpt_ctx *ctx)
    * (this will become inefficient if pid-space is exhausted)
    */
    do {
- if (ctx->tasks_pid == INT_MAX)
+ if (ctx->tasks_pid == ctx->pid_max)
    ctx->tasks_pid = CKPT_RESERVED_PIDS;
    else
    ctx->tasks_pid++;

- if (n++ == INT_MAX) { /* ohhh... */
+ if (n++ == ctx->pid_max) { /* ohhh... */
    ckpt_err("pid namespace exhausted");
    return -1;
    }
--
1.7.1

```

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