Subject: Re: utrace, RCU and ia64 Posted by Alexey Dobriyan on Tue, 17 Apr 2007 11:12:55 GMT View Forum Message <> Reply to Message

[double freeing of struct utrace leading to oops in __rcu_process_callbacks]

Hi, Roland,

utrace debugging you've put into 2.6.21-rc6-mm1 helped. Two double-frees reproduced: 1) BUG at kernel/utrace.c:176 rcu_utrace_free utrace_reap utrace_release_task release_task flush old exec load elf binary search binary handler do execve 2) rcu utrace free check_dead_utrace remove_detached finish_report_death utrace_report_death do_exit debug_mutex_init get signal to deliver do_notify_resume ptregscall common

I've sprinkled more atomic_set's over utrace code to determine who is at fault of first freeing. It seems to be

rcu_utrace_free check_dead_utrace wake_quiscent utrace_detach

sysret_signal

It was atomic_set(&utrace->debug, 42) right before wake_quiscent() call and printk() in rcu_utrace_free() call. So it was 42 or garbage.

How I understand all this is that check_dead_utrace() can free struct utrace, and don't clear ->utrace pointer.