Subject: Re: [RFC PATCH] posix timers: allocate timer id per task Posted by Stanislav Kinsbursky on Tue, 16 Oct 2012 08:00:06 GMT View Forum Message <> Reply to Message

> On Mon, 2012-10-15 at 20:17 +0400, Stanislav Kinsbursky wrote: >> This patch is required CRIU project (www.criu.org). >> To migrate processes with posix timers we have to make sure, that we can >> restore posix timer with proper id. >> Currently, this is not true, because timer ids are allocated globally. >> So, this is precursor patch and it's purpose is make posix timer id to be >> allocated per task. >> >> Patch replaces global idr with global hash table for posix timers and >> makes timer ids unique not globally, but per task. Next free timer id is type >> of integer and stored on signal struct (posix_timer_id). If free timer id >> reaches negative value on timer creation, it will be dropped to zero and >> -EAGAIN will be returned to user. >> Hash table is size of page (4KB). >> Key is constructed as follows: >> key = hash_ptr(current->signal) ^ hash_32(posix_timer_id); > > but but but.. isn't this what namespaces were invented for to solve? Why > not use the regular namespace infrastructure? > The reason is that CRIU have to support single processes within existent namespaces.

Best regards, Stanislav Kinsbursky

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