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Subject: Re: [PATCH 6/6] Define is\_global\_init() and is\_container\_init()  
Posted by [Pavel Emelianov](#) on Fri, 13 Jul 2007 05:24:21 GMT  
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sukadev@us.ibm.com wrote:

> Subject: [PATCH 6/6] Define is\_global\_init() and is\_container\_init().  
>  
> From: Serge E. Hallyn <serue@us.ibm.com>  
>  
>  
> is\_init() is an ambiguous name for the pid==1 check. Split it into  
> is\_global\_init() and is\_container\_init().  
>  
> A container init has it's tsk->pid == 1.  
>  
> A global init also has it's tsk->pid == 1 and it's active pid namespace  
> is the init\_pid\_ns. But rather than check the active pid namespace,  
> compare the task structure with 'init\_pid\_ns.child\_reaper', which is  
> initialized during boot to the /sbin/init process and never changes.  
>  
> Changelog:  
>  
> 2.6.22-rc4-mm2-pidns1:  
> - Use 'init\_pid\_ns.child\_reaper' to determine if a given task is the  
> global init (/sbin/init) process. This would improve performance  
> and remove dependence on the task\_pid().  
>  
> 2.6.21-mm2-pidns2:  
>  
> - [Sukadev Bhattiprolu] Changed is\_container\_init() calls in {powerpc,  
> ppc,avr32}/traps.c for the \_exception() call to is\_global\_init().  
> This way, we kill only the container if the container's init has a  
> bug rather than force a kernel panic.  
>  
> Signed-off-by: Serge E. Hallyn <serue@us.ibm.com>  
> Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>

Acked-by: Pavel Emelianov <xemul@openvz.org>

> ---  
> arch/alpha/mm/fault.c | 2 +-  
> arch/arm/mm/fault.c | 2 +-  
> arch/arm26/mm/fault.c | 2 +-  
> arch/avr32/kernel/traps.c | 2 +-  
> arch/avr32/mm/fault.c | 6 +++--  
> arch/i386/lib/usercopy.c | 2 +-  
> arch/i386/mm/fault.c | 2 +-  
> arch/ia64/mm/fault.c | 2 +-  
> ---

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> arch/m68k/mm/fault.c          | 2 +-
> arch/mips/mm/fault.c          | 2 +-
> arch/powerpc/kernel/traps.c   | 2 +-
> arch/powerpc/mm/fault.c       | 2 +-
> arch/powerpc/platforms/pseries/ras.c | 2 +-
> arch/ppc/kernel/traps.c       | 2 +-
> arch/ppc/mm/fault.c           | 2 +-
> arch/s390/lib/uaccess_pt.c    | 2 +-
> arch/s390/mm/fault.c          | 2 +-
> arch/sh/mm/fault.c            | 2 +-
> arch/sh64/mm/fault.c          | 6 +++---
> arch/um/kernel/trap.c         | 2 +-
> arch/x86_64/mm/fault.c        | 2 +-
> arch/xtensa/mm/fault.c        | 2 +-
> drivers/char/sysrq.c          | 2 +-
> include/linux/sched.h         | 12 ++++++++---
> kernel/capability.c           | 3 +-
> kernel/exit.c                 | 2 +-
> kernel/kexec.c                | 2 +-
> kernel/pid.c                  | 5 +++++
> kernel/signal.c               | 2 +-
> kernel/sysctl.c               | 2 +-
> mm/oom_kill.c                 | 4 ++--
> security/commoncap.c          | 3 +-
> 32 files changed, 52 insertions(+), 37 deletions(-)
>
> Index: lx26-22-rc6-mm1/include/linux/sched.h
> =====
> --- lx26-22-rc6-mm1.orig/include/linux/sched.h 2007-07-05 18:57:34.000000000 -0700
> +++ lx26-22-rc6-mm1/include/linux/sched.h 2007-07-05 18:59:06.000000000 -0700
> @@ -1248,12 +1248,20 @@ static inline int pid_alive(struct task_
> }
>
> /**
>  * is_init - check if a task structure is init
>  * is_global_init - check if a task structure is init
>  * @tsk: Task structure to be checked.
>  *
>  * Check if a task structure is the first user space task the kernel created.
>  *
>  * TODO: We should inline this function after some cleanups in pid_namespace.h
>  */
> +extern int is_global_init(struct task_struct *tsk);
> +
> +/**
>  * is_container_init:
>  * check whether in the task is init in it's own pid namespace.
>  */

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> -static inline int is_init(struct task_struct *tsk)
> +static inline int is_container_init(struct task_struct *tsk)
> {
>     return tsk->pid == 1;
> }
> Index: lx26-22-rc6-mm1/kernel/pid.c
> =====
> --- lx26-22-rc6-mm1.orig/kernel/pid.c 2007-07-05 18:53:48.000000000 -0700
> +++ lx26-22-rc6-mm1/kernel/pid.c 2007-07-05 18:59:06.000000000 -0700
> @@ -71,6 +71,11 @@ struct pid_namespace init_pid_ns = {
>     .child_reaper = &init_task
> };
>
> +int is_global_init(struct task_struct *tsk)
> +{
> + return tsk == init_pid_ns.child_reaper;
> +}
> +
> /*
>  * Note: disable interrupts while the pidmap_lock is held as an
>  * interrupt might come in and do read_lock(&tasklist_lock).
> Index: lx26-22-rc6-mm1/arch/alpha/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/alpha/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/alpha/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -192,7 +192,7 @@ do_page_fault(unsigned long address, uns
> /* We ran out of memory, or some other thing happened to us that
>    made us unable to handle the page fault gracefully. */
> out_of_memory:
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>     yield();
>     down_read(&mm->mmap_sem);
>     goto survive;
> Index: lx26-22-rc6-mm1/arch/arm/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/arm/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/arm/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -197,7 +197,7 @@ survive:
>     return fault;
> }
>
> - if (!is_init(tsk))
> + if (!is_global_init(tsk))
>     goto out;
>
> /*
> Index: lx26-22-rc6-mm1/arch/arm26/mm/fault.c

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> =====
> --- lx26-22-rc6-mm1.orig/arch/arm26/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/arm26/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -185,7 +185,7 @@ survive:
> }
>
> fault = -3; /* out of memory */
> - if (lis_init(tsk))
> + if (!lis_global_init(tsk))
> goto out;
>
> /*
> Index: lx26-22-rc6-mm1/arch/i386/lib/usercopy.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/i386/lib/usercopy.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/i386/lib/usercopy.c 2007-07-05 18:59:06.000000000 -0700
> @@ -748,7 +748,7 @@ survive:
> retval = get_user_pages(current, current->mm,
> (unsigned long )to, 1, 1, 0, &pg, NULL);
>
> - if (retval == -ENOMEM && is_init(current)) {
> + if (retval == -ENOMEM && is_global_init(current)) {
> up_read(&current->mm->mmap_sem);
> congestion_wait(WRITE, HZ/50);
> goto survive;
> Index: lx26-22-rc6-mm1/arch/i386/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/i386/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/i386/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -595,7 +595,7 @@ no_context:
> */
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(tsk)) {
> + if (is_global_init(tsk)) {
> yield();
> down_read(&mm->mmap_sem);
> goto survive;
> Index: lx26-22-rc6-mm1/arch/ia64/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/ia64/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/ia64/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -270,7 +270,7 @@ ia64_do_page_fault (unsigned long address
>
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {

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> yield();
> down_read(&mm->mmap_sem);
> goto survive;
> Index: lx26-22-rc6-mm1/arch/m68k/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/m68k/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/m68k/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -181,7 +181,7 @@ good_area:
> */
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
> yield();
> down_read(&mm->mmap_sem);
> goto survive;
> Index: lx26-22-rc6-mm1/arch/mips/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/mips/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/mips/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -174,7 +174,7 @@ no_context:
> */
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(tsk)) {
> + if (is_global_init(tsk)) {
> yield();
> down_read(&mm->mmap_sem);
> goto survive;
> Index: lx26-22-rc6-mm1/arch/powerpc/kernel/traps.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/powerpc/kernel/traps.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/powerpc/kernel/traps.c 2007-07-05 18:59:06.000000000 -0700
> @@ -191,7 +191,7 @@ void _exception(int signr, struct pt_reg
> * generate the same exception over and over again and we get
> * nowhere. Better to kill it and let the kernel panic.
> */
> - if (is_init(current)) {
> + if (is_global_init(current)) {
> __sighandler_t handler;
>
> spin_lock_irq(&current->sighand->siglock);
> Index: lx26-22-rc6-mm1/arch/powerpc/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/powerpc/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/powerpc/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -374,7 +374,7 @@ bad_area_nosemaphore:
> */

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> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>   yield();
>   down_read(&mm->mmap_sem);
>   goto survive;
> Index: lx26-22-rc6-mm1/arch/powerpc/platforms/pseries/ras.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/powerpc/platforms/pseries/ras.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/powerpc/platforms/pseries/ras.c 2007-07-05 18:59:06.000000000 -0700
> @@ -332,7 +332,7 @@ static int recover_mce(struct pt_regs *r
>     err->disposition == RTAS_DISP_NOT_RECOVERED &&
>     err->target == RTAS_TARGET_MEMORY &&
>     err->type == RTAS_TYPE_ECC_UNCORR &&
> -    !(current->pid == 0 || is_init(current))) {
> +    !(current->pid == 0 || is_global_init(current))) {
>   /* Kill off a user process with an ECC error */
>   printk(KERN_ERR "MCE: uncorrectable ecc error for pid %d\n",
>          current->pid);
> Index: lx26-22-rc6-mm1/arch/ppc/kernel/traps.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/ppc/kernel/traps.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/ppc/kernel/traps.c 2007-07-05 18:59:06.000000000 -0700
> @@ -121,7 +121,7 @@ void _exception(int signr, struct pt_reg
>   * generate the same exception over and over again and we get
>   * nowhere. Better to kill it and let the kernel panic.
>   */
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>   __sighandler_t handler;
>
>   spin_lock_irq(&current->sigband->siglock);
> Index: lx26-22-rc6-mm1/arch/ppc/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/ppc/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/ppc/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -292,7 +292,7 @@ bad_area:
>   */
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>   yield();
>   down_read(&mm->mmap_sem);
>   goto survive;

```

```

> Index: lx26-22-rc6-mm1/arch/s390/lib/uaccess_pt.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/s390/lib/uaccess_pt.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/s390/lib/uaccess_pt.c 2007-07-05 18:59:06.000000000 -0700
> @@ -65,7 +65,7 @@ out:
>
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
> yield();
> down_read(&mm->mmap_sem);
> goto survive;
> Index: lx26-22-rc6-mm1/arch/s390/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/s390/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/s390/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -211,7 +211,7 @@ static int do_out_of_memory(struct pt_re
> struct mm_struct *mm = tsk->mm;
>
> up_read(&mm->mmap_sem);
> - if (is_init(tsk)) {
> + if (is_global_init(tsk)) {
> yield();
> down_read(&mm->mmap_sem);
> return 1;
> Index: lx26-22-rc6-mm1/arch/sh/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/sh/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/sh/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -191,7 +191,7 @@ no_context:
> */
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
> yield();
> down_read(&mm->mmap_sem);
> goto survive;
> Index: lx26-22-rc6-mm1/arch/sh64/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/sh64/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/sh64/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -276,7 +276,7 @@ bad_area:
> show_regs(regs);
> #endif
> }
> - if (is_init(tsk)) {

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> + if (is_global_init(tsk)) {
>   panic("INIT had user mode bad_area\n");
> }
> tsk->thread.address = address;
> @@ -318,14 +318,14 @@ no_context:
> * us unable to handle the page fault gracefully.
> */
> out_of_memory:
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>   panic("INIT out of memory\n");
>   yield();
>   goto survive;
> }
> printk("fault:Out of memory\n");
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>   yield();
>   down_read(&mm->mmap_sem);
>   goto survive;
> Index: lx26-22-rc6-mm1/arch/um/kernel/trap.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/um/kernel/trap.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/um/kernel/trap.c 2007-07-05 18:59:06.000000000 -0700
> @@ -120,7 +120,7 @@ out_nosemaphore:
> * us unable to handle the page fault gracefully.
> */
> out_of_memory:
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>   up_read(&mm->mmap_sem);
>   yield();
>   down_read(&mm->mmap_sem);
> Index: lx26-22-rc6-mm1/arch/x86_64/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/x86_64/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/x86_64/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -558,7 +558,7 @@ no_context:
> */
> out_of_memory:
>   up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>   yield();
>   goto again;
> }
> Index: lx26-22-rc6-mm1/arch/xtensa/mm/fault.c

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> =====
> --- lx26-22-rc6-mm1.orig/arch/xtensa/mm/fault.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/xtensa/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -144,7 +144,7 @@ bad_area:
> */
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>     yield();
>     down_read(&mm->mmap_sem);
>     goto survive;
> Index: lx26-22-rc6-mm1/drivers/char/sysrq.c
> =====
> --- lx26-22-rc6-mm1.orig/drivers/char/sysrq.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/drivers/char/sysrq.c 2007-07-05 18:59:06.000000000 -0700
> @@ -250,7 +250,7 @@ static void send_sig_all(int sig)
>     struct task_struct *p;
>
>     for_each_process(p) {
> -     if (p->mm && !is_init(p))
> +     if (p->mm && !is_global_init(p))
>         /* Not swapper, init nor kernel thread */
>         force_sig(sig, p);
>     }
> Index: lx26-22-rc6-mm1/kernel/capability.c
> =====
> --- lx26-22-rc6-mm1.orig/kernel/capability.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/kernel/capability.c 2007-07-05 18:59:06.000000000 -0700
> @@ -12,6 +12,7 @@
> #include <linux/module.h>
> #include <linux/security.h>
> #include <linux/syscalls.h>
> +#include <linux/pid_namespace.h>
> #include <asm/uaccess.h>
>
> unsigned securebits = SECUREBITS_DEFAULT; /* systemwide security settings */
> @@ -135,7 +136,7 @@ static inline int cap_set_all(kernel_cap
>     int found = 0;
>
>     do_each_thread(g, target) {
> -         if (target == current || is_init(target))
> +         if (target == current || is_container_init(target))
>             continue;
>         found = 1;
>         if (security_capset_check(target, effective, inheritable,
> Index: lx26-22-rc6-mm1/kernel/exit.c
> =====

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> --- lx26-22-rc6-mm1.orig/kernel/exit.c 2007-07-05 18:56:53.000000000 -0700
> +++ lx26-22-rc6-mm1/kernel/exit.c 2007-07-05 18:59:06.000000000 -0700
> @@ -231,7 +231,7 @@ static int will_become_orphaned_pgrp(str
> do_each_pid_task(pgrp, PIDTYPE_PGID, p) {
>     if (p == ignored_task
>         || p->exit_state
>         || is_init(p->real_parent))
> +     || is_global_init(p->real_parent))
>     continue;
>     if (task_pgrp(p->real_parent) != pgrp &&
>         task_session(p->real_parent) == task_session(p)) {
> Index: lx26-22-rc6-mm1/kernel/kexec.c
> =====
> --- lx26-22-rc6-mm1.orig/kernel/kexec.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/kernel/kexec.c 2007-07-05 18:59:06.000000000 -0700
> @@ -42,7 +42,7 @@ struct resource crashk_res = {
>
> int kexec_should_crash(struct task_struct *p)
> {
> - if (in_interrupt() || !p->pid || is_init(p) || panic_on_oops)
> + if (in_interrupt() || !p->pid || is_global_init(p) || panic_on_oops)
>     return 1;
>     return 0;
> }
> Index: lx26-22-rc6-mm1/kernel/sysctl.c
> =====
> --- lx26-22-rc6-mm1.orig/kernel/sysctl.c 2007-07-05 18:54:29.000000000 -0700
> +++ lx26-22-rc6-mm1/kernel/sysctl.c 2007-07-05 18:59:06.000000000 -0700
> @@ -1924,7 +1924,7 @@ int proc_dointvec_bset(ctl_table *table,
>     return -EPERM;
> }
>
> - op = is_init(current) ? OP_SET : OP_AND;
> + op = is_global_init(current) ? OP_SET : OP_AND;
>     return do_proc_dointvec(table, write, filp, buffer, lenp, ppos,
>         do_proc_dointvec_bset_conv, &op);
> }
> Index: lx26-22-rc6-mm1/mm/oom_kill.c
> =====
> --- lx26-22-rc6-mm1.orig/mm/oom_kill.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/mm/oom_kill.c 2007-07-05 18:59:06.000000000 -0700
> @@ -222,7 +222,7 @@ static struct task_struct *select_bad_pr
>     if (!p->mm)
>         continue;
>     /* skip the init task */
> - if (is_init(p))
> + if (is_global_init(p))
>     continue;

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>
> /*
> @@ -275,7 +275,7 @@ static struct task_struct *select_bad_pr
> */
> static void __oom_kill_task(struct task_struct *p, int verbose)
> {
> - if (is_init(p)) {
> + if (is_global_init(p)) {
>     WARN_ON(1);
>     printk(KERN_WARNING "tried to kill init!\n");
>     return;
> Index: lx26-22-rc6-mm1/security/commoncap.c
> =====
> --- lx26-22-rc6-mm1.orig/security/commoncap.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/security/commoncap.c 2007-07-05 18:59:06.000000000 -0700
> @@ -23,6 +23,7 @@
> #include <linux/xattr.h>
> #include <linux/hugetlb.h>
> #include <linux/mount.h>
> +#include <linux/sched.h>
>
> int cap_netlink_send(struct sock *sk, struct sk_buff *skb)
> {
> @@ -261,7 +262,7 @@ void cap_bprm_apply_creds (struct linux_
> /* For init, we want to retain the capabilities set
>  * in the init_task struct. Thus we skip the usual
>  * capability rules */
> - if (!is_init(current)) {
> + if (!is_global_init(current)) {
>     current->cap_permitted = new_permitted;
>     current->cap_effective =
>         cap_intersect (new_permitted, bprm->cap_effective);
> Index: lx26-22-rc6-mm1/arch/avr32/kernel/traps.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/avr32/kernel/traps.c 2007-07-05 18:53:42.000000000 -0700
> +++ lx26-22-rc6-mm1/arch/avr32/kernel/traps.c 2007-07-05 18:59:06.000000000 -0700
> @@ -89,7 +89,7 @@ void _exception(long signr, struct pt_re
>  * generate the same exception over and over again and we get
>  * nowhere. Better to kill it and let the kernel panic.
>  */
> - if (is_init(current)) {
> + if (is_global_init(current)) {
>     __sighandler_t handler;
>
>     spin_lock_irq(&current->sighand->siglock);
> Index: lx26-22-rc6-mm1/arch/avr32/mm/fault.c
> =====
> --- lx26-22-rc6-mm1.orig/arch/avr32/mm/fault.c 2007-07-05 18:53:42.000000000 -0700

```

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> +++ lx26-22-rc6-mm1/arch/avr32/mm/fault.c 2007-07-05 18:59:06.000000000 -0700
> @@ -161,7 +161,7 @@ bad_area:
> if (exception_trace && printk_ratelimit())
> printk("%s%s[%d]: segfault at %08lx pc %08lx "
> "sp %08lx ecr %lu\n",
> - is_init(tsk) ? KERN_EMERG : KERN_INFO,
> + is_global_init(tsk) ? KERN_EMERG : KERN_INFO,
> tsk->comm, tsk->pid, address, regs->pc,
> regs->sp, ecr);
> _exception(SIGSEGV, regs, code, address);
> @@ -210,7 +210,7 @@ no_context:
> */
> out_of_memory:
> up_read(&mm->mmap_sem);
> - if (is_init(current)) {
> + if (is_global_init(current)) {
> yield();
> down_read(&mm->mmap_sem);
> goto survive;
> @@ -232,7 +232,7 @@ do_sigbus:
> if (exception_trace)
> printk("%s%s[%d]: bus error at %08lx pc %08lx "
> "sp %08lx ecr %lu\n",
> - is_init(tsk) ? KERN_EMERG : KERN_INFO,
> + is_global_init(tsk) ? KERN_EMERG : KERN_INFO,
> tsk->comm, tsk->pid, address, regs->pc,
> regs->sp, ecr);
>
> Index: lx26-22-rc6-mm1/kernel/signal.c
> =====
> --- lx26-22-rc6-mm1.orig/kernel/signal.c 2007-07-05 18:56:53.000000000 -0700
> +++ lx26-22-rc6-mm1/kernel/signal.c 2007-07-05 18:59:06.000000000 -0700
> @@ -257,7 +257,7 @@ flush_signal_handlers(struct task_struct
>
> int unhandled_signal(struct task_struct *tsk, int sig)
> {
> - if (is_init(tsk))
> + if (is_global_init(tsk))
> return 1;
> if (tsk->ptrace & PT_PTRACED)
> return 0;
>
> _____
> Containers mailing list
> Containers@lists.linux-foundation.org
> https://lists.linux-foundation.org/mailman/listinfo/containers
>

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Containers mailing list

