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First message in thread
Hao Sun
Steven Rostedt
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Wed. 8 Sep 2021 11:38:56 -0400
  Date
  From
                                           Steven Rostedt <>
   Subject Re: WARNING in __static_key_slow_dec_deferred
On Wed, 8 Sep 2021 16:10:17 +0800
Hao Sun <sunhao.th@gmail.com> wrote:
 > Hello.
   > When using Healer to fuzz the latest Linux kernel, the following crash
Thanks for the report. I think I have an idea of what happened.
       HEAD commit: ac08blc68dlb Merge tag 'pci-v5.15-changes'
                  nsole output:
                                                                                                                                                                                                                                                                                                                                                 w?usp=sharing
        https://drive.google.com/file/d/lPjiSFUWZyLo655E8bTVfytsTjlMTN45F/view?usp=sharing
        If you fix this issue, please add the following tag to the commit: Reported-by: Hao Sun <sunhao.th@gmail.com>
      FAULT INJECTION: forcing a failure.

name failslab, interval 1, probability 0, space 0, times 0
CPU: 2 PID: 9142 Comm: syz-executor Not tainted 5.14.0+ #15
Hardware name: QEMU Standard PC (i440FX + PIIX, 1996), BIOS
rel-1.12.0-55-gc9ba5276e321-prebuilt.qemu.org 04/01/2014
Call Trace:
      Hardware name: gpMU Standard PC (1440EX + FIIX, 1996), BIOS rei-1.12.0-59-gcbba5276e321-prebuilt.qemu.org 04/01/2014
Call Trace:

_dump stack lib/dump_stack.c:88 [inline]
dump stack lvl+0x8d/0xcf lib/dump_stack.c:105
fail_dump lib/fault-inject.c:52 [inline]
should fail+0x13c/0x160 lib/fault-inject.c:146
should fail+0x13c/0x160 lib/fault-inject.c:146
should fail+0x13c/0x160 lib/fault-inject.c:146
slab pre_alloc hook.constprop.100+0x4e/0xc0 mm/slab.h:494
slab alloc node mm/sub.c:2967 [inline]
skab alloc node mm/sub.c:2972
kmem cache_alloc+0x4d/0x2a0 mm/slub.c:2972
kmem cache_alloc+0xdc/0xb0 security/security.c:572
[inline]
security file alloc-t0x2c/0xb0 security/security.c:1515
alloc_file+0x17(0x150 fs/file table.c:106
alloc_empty_file+0x4b/0x100 fs/file_table.c:150
alloc_file+0x31/0x170 fs/file_table.c:150
alloc_file+0x31/0x170 fs/file_table.c:1232
_shmem_file_setup_part.53-0xb0/0x150 mm/shmem.c:4085
_shmem_kernel_file_setup_mm/shmem.c:4148
immap_rejon+0x428/0x790 mm/mmap.c:1824
do_mmap+0x438/0x670 mm/mmap.c:1874
vm_mmap_pgoff+0x10d/0x1b0 mm/util.c:519
vm_mmap+0x60/0x80 mm/util.c:531
vm_mmap+0x60/0x80 mm/util.c:533
x86 set_memory_region+0x233/0x340 arch/x86/kvm/x86.c:11271
alloc_apic_access_page_arch/x86/kvm/vmx/vmx.c:3648 [inline]
wms_create_vcpu+0x64b/0x193 arch/x86/kvm/vmx/vmx.c:6871
he force_failed_allocation_happened_while_creating_a_vcpu.
   The force failed allocation happened while creating a vcpu.

> kvm arch vcpu create+0x256/0x460 arch/x86/kvm/x86.c:10724

> kvm wn ioctl create vcpu
arch/x86/kvm/.../.../virt/kvm/kvm main.c:3592 [inline]
> kvm wn ioctl-0x57c/0x180 arch/x86/kvm/.../../virt/kvm/kvm_main.c:4314

> vfs ioctl fs/ioctl.c:51 [inline]

> do sys ioctl fs/ioctl.c:674 [inline]
> _se sys_ioctl fs/ioctl.c:674 [inline]
> _se sys_ioctl fs/ioctl.c:860 [inline]

> _se sys_ioctl fs/ioctl.c:860 [inline]
> _se sys_ioctl fs/ioctl.c:860 [inline]
> _se sys_ioctl fs/ioctl.c:860 [inline]
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> _se sys_ioctl fs/ioctl.c:860 [inline]
> _se sys_ioctl fs/ioctl.c:860 [inline]
> _se sys_ioctl.fs/ioctl.c:860 [inline]
| _se sys_ioc
 The force failed allocation happened while creating a vcpu.
       Call Trace:
 > Califiades slow dec deferred-0x28/0x70 kernel/jump_label.c:286
> kvm free_lapic-0xaf/0xd0 arch/x86/kvm/lapic.c:2211
> kvm arch_vepu_create+0x2f7/0x460 arch/x86/kvm/x86.c:10751
 The failed allocation was detected, and the error path was taken.
The above is here:
 void kvm_free_lapic(struct kvm_vcpu *vcpu)
                               struct kvm_lapic *apic = vcpu->arch.apic;
                               if (!vcpu->arch.apic)
                                                              return;
                               hrtimer cancel(&apic->lapic timer.timer);
                               if (!(vcpu->arch.apic_base & MSR_IA32_APICBASE_ENABLE)) static_branch_slow_dec_deferred(&apic_hw_disabled); <<<----- bad jump label accounting
                               if (!apic->sw_enabled)
    static branch slow dec deferred(&apic sw disabled);
```

if (apic->regs)

free page((unsigned long)apic->regs);

0

kfree(apic);

Last update: 2021-09-08 17:41 [W:0.015 / U:0.436 seconds]
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