[v13,12/12] KVM: x86: Disable Intel PT when VMXON in L1

guest

10654375

diff (/patch/10654375/raw/)

mbox (/patch/10654375/mbox/)

series (/series/34463/mbox/)

Message ID 1540368316-12998-13-git-send-email-luwei.kang@intel.com

State New Headers show

Series Intel Processor Trace virtualization enabling

Related show

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Kang, Luwei (/project/kvm/list/?submitter=168537)

Oct. 24, 2018, 8:05 a.m. UTC

Currently, Intel Processor Trace do not support tracing in L1 guest VMX operation(IA32_VMX_MISC[bit 14] is 0). As mentioned in SDM, on these type of processors, execution of the VMXON instruction will clears IA32_RTIT_CTL.TraceEn and any attempt to write IA32_RTIT_CTL causes a general-protection exception (#GP).

```
Signed-off-by: Luwei Kang <luwei.kang@intel.com>
```

arch/x86/kvm/vmx.c | 8 ++++++
1 file changed, 7 insertions(+), 1 deletion(-)

Patch

10654375 diff (/

diff (/patch/10654375/raw/)

mbox (/patch/10654375/mbox/)

series (/series/34463/mbox/)

```
diff --git a/arch/x86/kvm/vmx.c b/arch/x86/kvm/vmx.c
index ed247dd..5001049 100644
--- a/arch/x86/kvm/vmx.c
+++ b/arch/x86/kvm/vmx.c
@@ -4556,7 +4556,8 @@ static int vmx set msr(struct kvm vcpu *vcpu, struct msr data *msr info)
                break;
        case MSR IA32 RTIT CTL:
               if ((pt mode != PT MODE HOST GUEST) ||
                        vmx rtit ctl check(vcpu, data))
                        vmx rtit ctl check(vcpu, data) ||
+
                        vmx->nested.vmxon)
                        return 1;
               vmcs write64(GUEST IA32 RTIT CTL, data);
                pt set intercept for msr(vmx, !(data & RTIT CTL TRACEEN));
   -8760,6 +8761,11 @@ static int handle_vmon(struct kvm vcpu *vcpu)
        if (ret)
                return ret;
        if (pt mode == PT MODE HOST GUEST) {
+
                vmx->pt desc.guest.ctl = 0;
                pt set intercept for msr(vmx, 1);
+
+
        return nested vmx succeed(vcpu);
```

patchwork (http://jk.ozlabs.org/projects/patchwork/) patch tracking system | version v2.1.0 | about patchwork (/about/)