



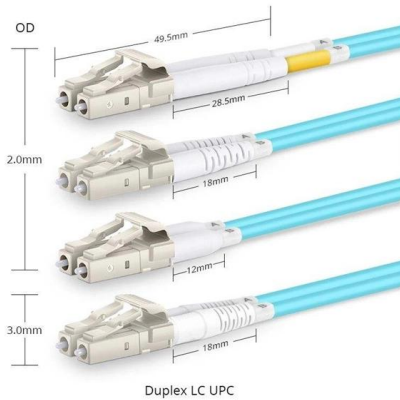
Adam Tas Corridor Energy

KVM Switch Debugging





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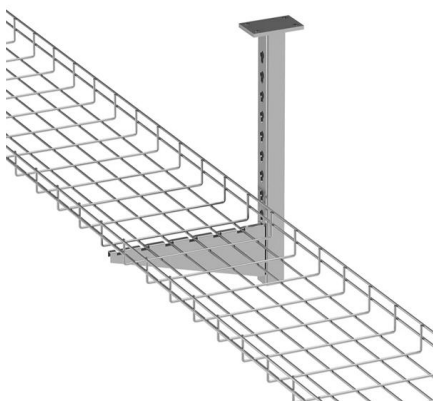


GitHub

Patches are welcome at the KVM mailing list kvm@vger.kernel. Please prefix messages with: [kvm-unit-tests PATCH] You can add the following to .git/config to

How does one debug the KVM subsystem?

I was recently debugging the QEMU source code and there are endpoints like `kvm_ioctl`, `kvm_vm_ioctl`, `kvm_vcpu_ioctl`, `kvm_device_ioctl` which interact with the `/dev/kvm` and VM and



How to debug the KVM module? : r/kernel

I am trying to understand the KVM and QEMU internals. I am debugging QEMU using `gdb` but QEMU calls `ioctl()` to talk to KVM using `/dev/kvm`. But how do I debug when control reaches the kernel

KVM Switches General Troubleshooting , StarTech

Use the video cable, KVM switch, video source, and video destination in another setup to see if



the problem is with the components or the setup.
Use a different



KVM Quick Troubleshooting Guide

I've noticed lately I've been recommending similar troubleshooting steps for KVMs before going into more technical concerns. We have the KVM



kvm-debugger/README.md at main · jkrshnmenon/kvm-debugger

The idea is to trap the KVM_RUN ioctl and replace it with a wrapper that catches KVM_EXIT_DEBUG. If the VM exit code is KVM_EXIT_DEBUG, we use the KVM functions to get the registers and send



Debugging QEMU/KVM Setup If Something Goes Wrong (e.g.,

In our previous projects, we always did all development on real hardware. For example, LXDs and LVDs required baremetal speed of the cache-coherence protocol and support for nested



xorg

I'm hoping to find log entries to be used for troubleshooting before giving up on the KVM switch.



How does one debug the KVM subsystem?

Do you really need to debug KVM in the kernel, though? Like any other syscall, if it's behaving correctly you can restrict yourself to only debugging the userspace program that uses it.

Guest operating system debugging

Debugging Techniques (7) - which outbound technique might help? Crashes? QEMU dump, QEMU monitor or interactive debugging („big guests") Performance degradation? perf kvm stat / perf kvm



logging and debugging for qemu virtual machines

qemu command accepts a simple -D switch which can create a log file. So for example including -D ./log.txt will create "log.txt" in your working directory. You can access more logging/debugging



Kernel Debugging with KVM and Ubuntu VM

Create VM and install as per usual, I used a server variant for simplicity. Give plenty of disk space and resources, the debug kernels and sources take up a lot of space.



Debugging in Extreme Context through QEMU+Linux-KVM

Summary This blog introduced the method of using QEMU+Linux-KVM and installing debugging environment for Windows Kernel and most importantly - the usage of ISA-DebugCon

Debugging QEMU/KVM Setup If Something Goes Wrong (e.g.,

Debugging QEMU/KVM Setup If Something Goes Wrong (e.g., Support for 1GB Pages) 01 Nov 2020 In our previous projects, we always did all development on real hardware. For example,





How to debug the KVM module? : r/kernel



Couldn't we use gdb breakpoint from the host for a VM using KVM? I never used breakpoints for x86 KVM code, but we should be able to debug the KVM code similar to debug Linux kernel right?

A tool to debug code running inside KVM based hypervisors

I've found a few CTF challenges that have some code running inside a KVM-based hypervisor which contains a vulnerability. In situations where the source code of the hypervisor isn't available, it might



Debugging kernel and modules via gdb

Debugging kernel and modules via gdb The kernel debugger kgdb, hypervisors like QEMU or JTAG-based hardware interfaces allow to debug the Linux kernel and its modules during runtime using gdb.



xorg

I'm hoping to find log entries to be used for troubleshooting before giving up on the KVM switch. In the logs, I see repeated issues with org.eedesktop.systemd1 and gnome-session but

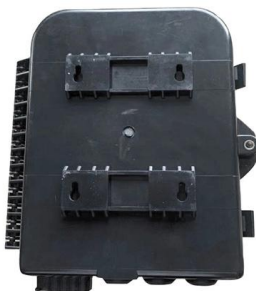


Troubleshooting KVM Virtualization Problem With Log

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DebuggingKVM

This page is part of the debugging series -- pages with debugging details for a variety of Ubuntu packages. If it is easily reproducible, try building from upstream git and reproducing. Then



QEMU/Monitor

Once in the monitor, Ctrl-Alt-1 switches back to the guest OS. Typing help or ? in the monitor brings up a list of all commands. Alternatively the monitor can be redirected to using the



Debugging in Extreme Context through QEMU+Linux-KVM

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KVM (Hardware) issues Ubuntu

I have tried AV Access KD-E10 2x1 Dual Monitor KVM and the Anker 553 USB-C Docking Station (KVM Switch). The AV access has weird scaling issues with Ubuntu on the framework and



WindowsGuestDrivers/GuestDebugging

To allow kernel debugging on a qemu's Windows guest we need two Windows VMs which will be "connected" using a __virtual__ null-modem serial cable using qemu's serial redirection ability.



Kernel debugging with Qemu and WinDbg , Infosec

Conclusion In this article we presented how we can debug the Windows kernel under Qemu by using two virtual machines. First we installed the debugging tools in first virtual machine



Using WinDbg Over KDNNet on QEMU-KVM

If you want to enable the Windows kernel debugger using network transport (KDNNet) in a guest is hosted on Linux under QEMU-KVM, you need to

Debugging a kernel in QEMU/libvirt

The guest to be the target of the debugging session is a libvirt (or KVM/QEMU) style Virtual Machine. The guest virtual serial port should be mapped to the TCP port (TCP/1234) for use



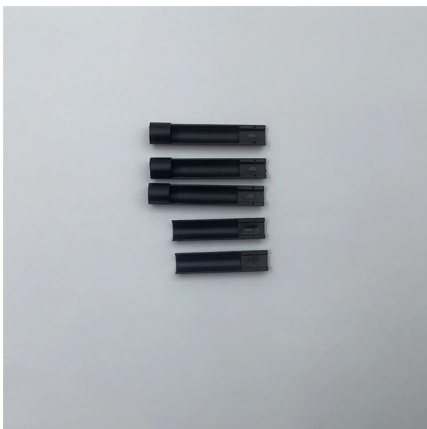


How to Troubleshoot KVM Virtualization Problem - With Log

Some log files to be familiar with for Troubleshooting KVM Virtualization Problem There are various log files on the host system to assist with debugging KVM-related problems.

KVM troubleshooting in six simple steps

KVM troubleshooting in six simple steps To troubleshoot common KVM issues, start by checking the logs. Then, isolate the issue and check the VM status using virsh commands. Finally,



Debugging KVM

Bug importance critical: eats your data high: crashes the host medium: crashes the guest (and most other "normal" bugs) low: doesn't crash host or guest, but has undesirable, clearly buggy

Enable Logging on QEMU/KVM VM

Configuring logging for QEMU/KVM VMs can be accomplished through command-line options or by adjusting libvirt configurations, depending on



KVM-unit-tests

Testdevs Like all guests, a kvm-unit-test unit test (a mini guest) is run not only with KVM, but also with KVM's userspace. It's useful for unit tests to be able to open a test specific communication channel to

GDB usage -- QEMU documentation

GDB usage QEMU supports working with gdb via gdb's remote-connection facility (the "gdbstub"). This allows you to debug guest code in the same way that you might with a low-level debug facility like



How to debug Virtualization problems

kvm-autotest is an excellent way of testing basic KVM functionality. ? Xen Some useful information on how to debug Xen issues can be found in the Debugging Xen Wiki page. If you think you found an





KVM Switching for Separate AI Test and Build Workstations

Many AI developers maintain separate build and test workstations to avoid resource contention during long training runs and real-time inference debugging. A KVM switch paired with a



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