Redirect multiple UARTs in Qemu





I am emulating a chip with multiple UARTs/USARTs. What I want to do is redirect UART3 to /dev/uart3 on the host, uart7 to /dev/uart7 on the host, e seem to find examples or guides that deal with more than one uart, and the examples I did find don't seem to even select which uart they are dumpi console/socket/whatever. (Some of them use "id=id" but I have no idea what that means and Qemu documentation didn't seem to cover it.)

linux arm embedded gemu uart

asked Sep 7 '16 at 14:5

Seth

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1 Answer

man qemu says:

-serial dev

Redirect the virtual serial port to host character device dev. The default device is "vc" in graphical mode and "stdio" in non graphical mode. This option can be used **several times** to simulate **up to 4 serial** ports.

also, You could add virtual USB serial ports:

-usbdevice serial:[vendorid=vendor id][,productid=product id]:dev

For dev you substitute your host's serial ports in the form /dev/ttyxxx in both cases

you could omit vendor and product id specification. In that case $_{\text{qemu}}$ would create the generic serial usb device with Virto' IDs

answered Sep 7 '16 at 18:01



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I used "-serial /dev/tty5" while also doing a cat or a tail-f on /dev/tty5 and no text showed up. I also tried a cat and tail -f on /dev/vcs5, nothing. Did I do something wrong? That does seem to work with "-serial dev/pts/18" while pts 18 is open. but "-serial dev/pts/18 -serial dev/pts/19" didn't output uart2 There are 8 uarts, can I only output 4 of them in Qemu? What about the GPIOs and SPIs, can they be output? — Seth Sep 7 '16 at 19:04

And then how to do anything with them with the Linux kernel? E.g. if I try: -serial tcp::45456,server,nowait -serial tcp::45457,server,nowait I can only connect to the first one with telnet localhost 45456 from host, but the second one stays blank. Maybe I'm missing some kernel config? - Ciro Santilli 包子露宪 六四事件 法轮功 Mar 13 at 16:39