
Subject: Re: [PATCH] kthread: saa7134-tvaudio.c
Posted by [Cedric Le Goater](#) on Wed, 30 Aug 2006 14:07:00 GMT
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>> With the kthread api new kernel threads are started as children of keventd
>> in well defined circumstances. If you don't do this kernel threads
>> can wind up sharing weird parts of a parent process's resources and
>> locking resources in the kernel long past the time when they are
>> actually used by anything a user space process can kill.
>>
>> We have actually witnessed this problem with the kernels filesystem mount
>> namespace. Mostly daemonize in the kernel unshares everything that
>> could be a problem but the problem is sufficiently subtle it makes
>> more sense to the change kernel threads. So these weird and subtle
>> dependencies go away.
>>
>> So in essence the container work needs the new kthread api for the
>> same reasons everyone else does it is just more pronounced in that
>> case.
>
> That plus the obvious bit. For the pid namespace we have to declare
> war on people storing a pid_t values. Either converting them to
> struct pid * or removing them entirely. Doing the kernel_thread to
> kthread conversion removes them entirely.

we've started that war, won a few battles but some drivers need more work
that a simple replace. If we could give some priorities, it would help to
focus on the most important ones. check out the list bellow.

thanks,

C.

arch/arm/kernel/ecard.c
arch/i386/kernel/apm.c
arch/i386/kernel/io_apic.c
arch/i386/mach-voyager/voyager_thread.c
arch/ia64/sn/kernel/xpc_main.c
arch/mips/au1000/db1x00/mirage_ts.c
arch/mips/kernel/apm.c
arch/parisc/kernel/process.c
arch/powerpc/platforms/pseries/eeh_event.c
arch/powerpc/platforms/pseries/rtasd.c
arch/s390/mm/cmm.c
arch/sparc64/kernel/power.c

drivers/base/firmware_class.c
drivers/block/loop.c

drivers/ieee1394/nodemgr.c
drivers/macintosh/adb.c
drivers/macintosh/mediabay.c
drivers/macintosh/therm_pm72.c
drivers/macintosh/therm_windtunnel.c
drivers/media/dvb/dvb-core/dvb_ca_en50221.c
drivers/media/dvb/dvb-core/dvb_frontend.c
drivers/media/dvb/ttpci/av7110.c
drivers/media/video/saa7134/saa7134-tvaudio.c
drivers/media/video/tvaudio.c
drivers/mmc/mmc_queue.c
drivers/mtd/mtd_blkdevs.c
drivers/net/wireless/airo.c
drivers/pci/hotplug/cpci_hotplug_core.c
drivers/pci/hotplug/cpqphp_ctrl.c
drivers/pci/hotplug/ibmphp_hpc.c
drivers/pci/hotplug/pciehp_ctrl.c
drivers/pnp/pnpbios/core.c
drivers/s390/net/lcs.c
drivers/s390/net/qeth_main.c
drivers/s390/scsi/zfcp_erp.c
drivers/usb/atm/usbatm.c
drivers/usb/storage/libusual.c

fs/afs/cmservice.c
fs/afs/kafsasyncd.c
fs/afs/kafstimod.c
fs/cifs/connect.c
fs/jffs2/background.c
fs/jffs/inode-v23.c
fs/lockd/clntlock.c
fs/nfs/delegation.c

init/do_mounts_initrd.c
kernel/kmod.c
kernel/stop_machine.c

net/bluetooth/bnep/core.c
net/bluetooth/cmtcp/core.c
net/bluetooth/hidp/core.c
net/bluetooth/rfcomm/core.c
net/core/pktgen.c
net/ipv4/ipvs/ip_vs_sync.c
net/rxrpc/krxiod.c
net/rxrpc/krxsecd.c
net/rxrpc/krxtimod.c
net/sunrpc/svc.c

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