

Re: Cached memory never gets released

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-06/6470.html>

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To: linux-kernel@vger.kernel.org

I've done more experiments and have gotten rid of *every* kernel change we've made, and the problem still exists. To summarize:

- 1) Stock linux 2.4.26 kernel.
- 2) VIA epia-m motherboard with linuxbios
- 3) 128M DDR ram
- 4) 16M devoted to video
- 5) XFree86 4.3.0
- 6) Mozilla + x86 flash 6.0 plugin
- 7) Flash calls for large unicode Japanese font/
- 8) No swap. System is diskless and its root filesystem is a 2M ramdisk with symlinks to a read-only NFS mountpoint.

When I repeatedly load a flash page there are a number of problems

A) Due to flash bug 3M of memory gets lost due to font memory getting lost
This isn't the kernel's problem though.

B) The output of "free" cache number steadily grows. Eventually all of system memory is locked up in the cache and the kernel starts killing processes to free up resources. A simple malloc/fill program that keeps allocating memory and filling it until it fails or the kernel kills it will reclaim some of the cache, but in the end there is a fixed amount that never can get released—almost all of the original free memory.

The memory leak in A) is associated with the growth rate in B). If I remove the Japanese font loading mozilla/flash don't leak memory, and the cache fillup problem is greatly reduced, but it still exists. It just takes a lot longer to exhaust all of system memory with the cache.

I don't really understand how the kernel manages its cache memory. If someone could post a function to say dump information about everything that is in the cache I could integrate that in with the kernel and report results. Some people have suggested if the cache doesn't have a mapping or if the buffers are dirty they can't get reclaimed. The filesystem is read-only so dirty can't apply. I don't know what the mapping means.

Any suggestions welcome. I don't know what else I can do since I'm down to a stock kernel and so in my mind there is no way we've introduced this problem

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somehow.

Thanks--

Dave

PS Here is my kernel config

```
#  
# Automatically generated by make menuconfig: don't edit  
#  
CONFIG_X86=y  
# CONFIG_SBUS is not set  
CONFIG_UID16=y  
  
#  
# Code maturity level options  
#  
CONFIG_EXPERIMENTAL=y  
  
#  
# Loadable module support  
#  
CONFIG_MODULES=y  
# CONFIG_MODVERSIONS is not set  
CONFIG_KMOD=y  
  
#  
# Processor type and features  
#  
# CONFIG_M386 is not set  
# CONFIG_M486 is not set  
# CONFIG_M586 is not set  
# CONFIG_M586TSC is not set  
# CONFIG_M586MMX is not set  
# CONFIG_M686 is not set  
# CONFIG_MPENTIUMIII is not set  
# CONFIG_MPENTIUM4 is not set  
# CONFIG_MK6 is not set  
# CONFIG_MK7 is not set  
# CONFIG_MK8 is not set  
# CONFIG_MELAN is not set  
# CONFIG_MCRUSOE is not set  
# CONFIG_MWINCHIP6 is not set  
# CONFIG_MWINCHIP2 is not set  
# CONFIG_MWINCHIP3D is not set  
CONFIG_MCYRIXIII=y  
# CONFIG_MVIAC3_2 is not set  
CONFIG_X86_WP_WORKS_OK=y  
CONFIG_X86_INVLPG=y  
CONFIG_X86_CMPXCHG=y  
CONFIG_X86_XADD=y  
CONFIG_X86_BSWAP=y  
CONFIG_X86_POPAD_OK=y
```

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```
# CONFIG_RWSEM_GENERIC_SPINLOCK is not set
CONFIG_RWSEM_XCHGADD_ALGORITHM=y
CONFIG_X86_L1_CACHE_SHIFT=5
CONFIG_X86_HAS_TSC=y
CONFIG_X86_ALIGNMENT_16=y
CONFIG_X86_USE_3DNOW=y
CONFIG_X86_USE_PPRO_CHECKSUM=y
CONFIG_X86_F00F_WORKS_OK=y
CONFIG_X86_MCE=y
# CONFIG_TOSHIBA is not set
# CONFIG_I8K is not set
# CONFIG_MICROCODE is not set
# CONFIG_X86_MSR is not set
CONFIG_X86_CPUID=y
# CONFIG_EDD is not set
CONFIG_NOHIGHMEM=y
# CONFIG_HIGHMEM4G is not set
# CONFIG_HIGHMEM64G is not set
# CONFIG_HIGHMEM is not set
# CONFIG_MATH_EMULATION is not set
CONFIG_MTRR=y
# CONFIG_SMP is not set
# CONFIG_X86_UP_APIC is not set
# CONFIG_X86_UP_IOAPIC is not set
# CONFIG_X86_TSC_DISABLE is not set
CONFIG_X86_TSC=y
```

```
#
# General setup
#
CONFIG_NET=y
CONFIG_PCI=y
# CONFIG_PCI_GOBIOS is not set
CONFIG_PCI_GODIRECT=y
# CONFIG_PCI_GOANY is not set
CONFIG_PCI_DIRECT=y
CONFIG_ISA=y
CONFIG_PCI_NAMES=y
# CONFIG_EISA is not set
# CONFIG_MCA is not set
# CONFIG_HOTPLUG is not set
# CONFIG_PCMCIA is not set
# CONFIG_HOTPLUG_PCI is not set
CONFIG_SYSVIPC=y
# CONFIG_BSD_PROCESS_ACCT is not set
CONFIG_SYSCTL=y
CONFIG_KCORE_ELF=y
# CONFIG_KCORE_AOUT is not set
# CONFIG_BINFMT_AOUT is not set
CONFIG_BINFMT_ELF=y
CONFIG_BINFMT_MISC=y
```

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```
CONFIG_OOM_KILLER=y
# CONFIG_PM is not set
# CONFIG_APM is not set

#
# ACPI Support
#
# CONFIG_ACPI is not set

#
# Memory Technology Devices (MTD)
#
# CONFIG_MTD is not set

#
# Parallel port support
#
# CONFIG_PARPORT is not set

#
# Plug and Play configuration
#
# CONFIG_PNP is not set
# CONFIG_ISAPNP is not set

#
# Block devices
#
# CONFIG_BLK_DEV_FD is not set
# CONFIG_BLK_DEV_XD is not set
# CONFIG_PARIDE is not set
# CONFIG_BLK_CPQ_DA is not set
# CONFIG_BLK_CPQ_CISS_DA is not set
# CONFIG_CISS_SCSI_TAPE is not set
# CONFIG_CISS_MONITOR_THREAD is not set
# CONFIG_BLK_DEV_DAC960 is not set
# CONFIG_BLK_DEV_UMEM is not set
CONFIG_BLK_DEV_LOOP=y
# CONFIG_BLK_DEV_NBD is not set
CONFIG_BLK_DEV_RAM=y
CONFIG_BLK_DEV_RAM_SIZE=32768
CONFIG_BLK_DEV_INITRD=y
# CONFIG_BLK_STATS is not set

#
# Multi–device support (RAID and LVM)
#
# CONFIG_MD is not set
# CONFIG_BLK_DEV_MD is not set
# CONFIG_MD_LINEAR is not set
# CONFIG_MD_RAID0 is not set
```

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```
# CONFIG_MD_RAID1 is not set
# CONFIG_MD_RAID5 is not set
# CONFIG_MD_MULTIPATH is not set
# CONFIG_BLK_DEV_LVM is not set

#
# Networking options
#
CONFIG_PACKET=y
# CONFIG_PACKET_MMAP is not set
# CONFIG_NETLINK_DEV is not set
CONFIG_NETFILTER=y
# CONFIG_NETFILTER_DEBUG is not set
CONFIG_FILTER=y
CONFIG_UNIX=y
CONFIG_INET=y
CONFIG_IP_MULTICAST=y
# CONFIG_IP_ADVANCED_ROUTER is not set
# CONFIG_IP_PNP is not set
# CONFIG_NET_IPIP is not set
# CONFIG_NET_IPGRE is not set
# CONFIG_IP_MROUTE is not set
# CONFIG_ARPD is not set
# CONFIG_INET_ECN is not set
# CONFIG_SYN_COOKIES is not set

#
# IP: Netfilter Configuration
#
CONFIG_IP_NF_CONNTRACK=y
CONFIG_IP_NF_FTP=y
# CONFIG_IP_NF_AMANDA is not set
# CONFIG_IP_NF_TFTP is not set
CONFIG_IP_NF_IRC=y
CONFIG_IP_NF_QUEUE=y
CONFIG_IP_NF_IPTABLES=y
# CONFIG_IP_NF_MATCH_LIMIT is not set
CONFIG_IP_NF_MATCH_MAC=y
# CONFIG_IP_NF_MATCH_PKTTYPE is not set
# CONFIG_IP_NF_MATCH_MARK is not set
# CONFIG_IP_NF_MATCH_MULTIPORT is not set
# CONFIG_IP_NF_MATCH_TOS is not set
# CONFIG_IP_NF_MATCH_RECENT is not set
# CONFIG_IP_NF_MATCH_ECN is not set
# CONFIG_IP_NF_MATCH_DSCP is not set
# CONFIG_IP_NF_MATCH_AH_ESP is not set
# CONFIG_IP_NF_MATCH_LENGTH is not set
# CONFIG_IP_NF_MATCH_TTL is not set
# CONFIG_IP_NF_MATCH_TCPMSS is not set
# CONFIG_IP_NF_MATCH_HELPER is not set
CONFIG_IP_NF_MATCH_STATE=y
```

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```
# CONFIG_IP_NF_MATCH_CONNTRACK is not set
# CONFIG_IP_NF_MATCH_UNCLEAN is not set
# CONFIG_IP_NF_MATCH_OWNER is not set
CONFIG_IP_NF_FILTER=y
CONFIG_IP_NF_TARGET_REJECT=y
# CONFIG_IP_NF_TARGET_MIRROR is not set
CONFIG_IP_NF_NAT=y
CONFIG_IP_NF_NAT_NEEDED=y
CONFIG_IP_NF_TARGET_MASQUERADE=y
CONFIG_IP_NF_TARGET_REDIRECT=y
# CONFIG_IP_NF_NAT_LOCAL is not set
# CONFIG_IP_NF_NAT_SNMP_BASIC is not set
CONFIG_IP_NF_NAT_IRC=y
CONFIG_IP_NF_NAT_FTP=y
# CONFIG_IP_NF_MANGLE is not set
CONFIG_IP_NF_TARGET_LOG=y
# CONFIG_IP_NF_TARGET_ULOG is not set
# CONFIG_IP_NF_TARGET_TCPMSS is not set
# CONFIG_IP_NF_ARPTABLES is not set

#
# IP: Virtual Server Configuration
#
# CONFIG_IP_VS is not set
# CONFIG_IPV6 is not set
# CONFIG_KHTTPD is not set

#
# SCTP Configuration (EXPERIMENTAL)
#
# CONFIG_IP_SCTP is not set
# CONFIG_ATM is not set
CONFIG_VLAN_8021Q=y
# CONFIG_IPX is not set
# CONFIG_ATALK is not set

#
# Appletalk devices
#
# CONFIG_DEV_APPLETALK is not set
# CONFIG_DECNET is not set
CONFIG_BRIDGE=y
# CONFIG_X25 is not set
# CONFIG_LAPB is not set
# CONFIG_LLC is not set
# CONFIG_NET_DIVERT is not set
# CONFIG_ECONET is not set
# CONFIG_WAN_ROUTER is not set
# CONFIG_NET_FASTROUTE is not set
# CONFIG_NET_HW_FLOWCONTROL is not set
```

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```
#
# QoS and/or fair queueing
#
# CONFIG_NET_SCHED is not set

#
# Network testing
#
# CONFIG_NET_PKTGEN is not set

#
# Telephony Support
#
# CONFIG_PHONE is not set
# CONFIG_PHONE_IXJ is not set
# CONFIG_PHONE_IXJ_PCMCIA is not set

#
# ATA/IDE/MFM/RLL support
#
CONFIG_IDE=y

#
# IDE, ATA and ATAPI Block devices
#
CONFIG_BLK_DEV_IDE=y
# CONFIG_BLK_DEV_HD_IDE is not set
# CONFIG_BLK_DEV_HD is not set
CONFIG_BLK_DEV_IDEDISK=y
# CONFIG_IDEDISK_MULTI_MODE is not set
# CONFIG_IDEDISK_STROKE is not set
# CONFIG_BLK_DEV_IDECS is not set
# CONFIG_BLK_DEV_IDECD is not set
# CONFIG_BLK_DEV_IDETAPE is not set
# CONFIG_BLK_DEV_IDEFLOPPY is not set
# CONFIG_BLK_DEV_IDESCSI is not set
# CONFIG_IDE_TASK_IOCTL is not set
# CONFIG_BLK_DEV_CMD640 is not set
# CONFIG_BLK_DEV_CMD640_ENHANCED is not set
# CONFIG_BLK_DEV_ISAPNP is not set
CONFIG_BLK_DEV_IDEPCI=y
# CONFIG_BLK_DEV_GENERIC is not set
# CONFIG_IDEPCI_SHARE_IRQ is not set
CONFIG_BLK_DEV_IDEDMA_PCI=y
# CONFIG_BLK_DEV_OFFBOARD is not set
# CONFIG_BLK_DEV_IDEDMA_FORCED is not set
CONFIG_IDEDMA_PCI_AUTO=y
# CONFIG_IDEDMA_ONLYDISK is not set
CONFIG_BLK_DEV_IDEDMA=y
CONFIG_IDEDMA_PCI_WIP=y
# CONFIG_BLK_DEV_ADMA100 is not set
```

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```
# CONFIG_BLK_DEV_AEC62XX is not set
# CONFIG_BLK_DEV_ALI15X3 is not set
# CONFIG_WDC_ALI15X3 is not set
# CONFIG_BLK_DEV_AMD74XX is not set
# CONFIG_AMD74XX_OVERRIDE is not set
# CONFIG_BLK_DEV_ATIIXP is not set
# CONFIG_BLK_DEV_CMD64X is not set
# CONFIG_BLK_DEV_TRIFLEX is not set
# CONFIG_BLK_DEV_CY82C693 is not set
# CONFIG_BLK_DEV_CS5530 is not set
# CONFIG_BLK_DEV_HPT34X is not set
# CONFIG_HPT34X_AUTODMA is not set
# CONFIG_BLK_DEV_HPT366 is not set
# CONFIG_BLK_DEV_PIIX is not set
# CONFIG_BLK_DEV_NS87415 is not set
# CONFIG_BLK_DEV_OPTI621 is not set
# CONFIG_BLK_DEV_PDC202XX_OLD is not set
# CONFIG_PDC202XX_BURST is not set
# CONFIG_BLK_DEV_PDC202XX_NEW is not set
# CONFIG_BLK_DEV_RZ1000 is not set
# CONFIG_BLK_DEV_SC1200 is not set
# CONFIG_BLK_DEV_SVWKS is not set
# CONFIG_BLK_DEV_SIIMAGE is not set
# CONFIG_BLK_DEV_SIS5513 is not set
# CONFIG_BLK_DEV_SLC90E66 is not set
# CONFIG_BLK_DEV_TRM290 is not set
CONFIG_BLK_DEV_VIA82CXXX=y
# CONFIG_IDE_CHIPSETS is not set
CONFIG_IDEDMA_AUTO=y
# CONFIG_IDEDMA_IVB is not set
# CONFIG_DMA_NONPCI is not set
# CONFIG_BLK_DEV_ATA RAID is not set
# CONFIG_BLK_DEV_ATA RAID_PDC is not set
# CONFIG_BLK_DEV_ATA RAID_HPT is not set
# CONFIG_BLK_DEV_ATA RAID_MEDLEY is not set
# CONFIG_BLK_DEV_ATA RAID_SII is not set

#
# SCSI support
#
# CONFIG_SCSI is not set

#
# Fusion MPT device support
#
# CONFIG_FUSION is not set
# CONFIG_FUSION_BOOT is not set
# CONFIG_FUSION_ISENSE is not set
# CONFIG_FUSION_CTL is not set
# CONFIG_FUSION_LAN is not set
```

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```
#
# IEEE 1394 (FireWire) support (EXPERIMENTAL)
#
# CONFIG_IEEE1394 is not set

#
# I2O device support
#
# CONFIG_I2O is not set
# CONFIG_I2O_PCI is not set
# CONFIG_I2O_BLOCK is not set
# CONFIG_I2O_LAN is not set
# CONFIG_I2O_SCSI is not set
# CONFIG_I2O_PROC is not set

#
# Network device support
#
CONFIG_NETDEVICES=y

#
# ARCnet devices
#
# CONFIG_ARCNET is not set
CONFIG_DUMMY=y
# CONFIG_BONDING is not set
# CONFIG_EQUALIZER is not set
# CONFIG_TUN is not set
# CONFIG_ETHERTAP is not set

#
# Ethernet (10 or 100Mbit)
#
CONFIG_NET_ETHERNET=y
# CONFIG_SUNLANCE is not set
# CONFIG_HAPPYMEAL is not set
# CONFIG_SUNBMAC is not set
# CONFIG_SUNQE is not set
# CONFIG_SUNGEM is not set
# CONFIG_NET_VENDOR_3COM is not set
# CONFIG_LANCE is not set
# CONFIG_NET_VENDOR_SMC is not set
# CONFIG_NET_VENDOR_RACAL is not set
# CONFIG_AT1700 is not set
# CONFIG_DEPCA is not set
# CONFIG_HP100 is not set
# CONFIG_NET_ISA is not set
CONFIG_NET_PCI=y
CONFIG_PCNET32=y
# CONFIG_AMD8111_ETH is not set
# CONFIG_ADAPTEC_STARFIRE is not set
```

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```
# CONFIG_AC3200 is not set
# CONFIG_APRICOT is not set
# CONFIG_B44 is not set
# CONFIG_CS89x0 is not set
# CONFIG_TULIP is not set
# CONFIG_DE4X5 is not set
# CONFIG_DGRS is not set
# CONFIG_DM9102 is not set
# CONFIG_EEPRO100 is not set
# CONFIG_EEPRO100_PIO is not set
# CONFIG_E100 is not set
# CONFIG_LNE390 is not set
# CONFIG_FEALNX is not set
CONFIG_NATSEMI=y
# CONFIG_NE2K_PCI is not set
# CONFIG_FORCEDETH is not set
# CONFIG_NE3210 is not set
# CONFIG_ES3210 is not set
# CONFIG_8139CP is not set
CONFIG_8139TOO=y
# CONFIG_8139TOO_PIO is not set
# CONFIG_8139TOO_TUNE_TWISTER is not set
# CONFIG_8139TOO_8129 is not set
# CONFIG_8139_OLD_RX_RESET is not set
# CONFIG_SIS900 is not set
# CONFIG_EPIC100 is not set
# CONFIG_SUNDANCE is not set
# CONFIG_SUNDANCE_MMIO is not set
# CONFIG_TLAN is not set
CONFIG_VIA_RHINE=y
# CONFIG_VIA_RHINE_MMIO is not set
# CONFIG_WINBOND_840 is not set
# CONFIG_NET_POCKET is not set

#
# Ethernet (1000 Mbit)
#
# CONFIG_ACENIC is not set
# CONFIG_DL2K is not set
# CONFIG_E1000 is not set
# CONFIG_MYRI_SBUS is not set
# CONFIG_NS83820 is not set
# CONFIG_HAMACHI is not set
# CONFIG_YELLOWFIN is not set
# CONFIG_R8169 is not set
# CONFIG_SK98LIN is not set
# CONFIG_TIGON3 is not set
# CONFIG_FDDI is not set
# CONFIG_HIPPI is not set
# CONFIG_PLIP is not set
# CONFIG_PPP is not set
```

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```
# CONFIG_SLIP is not set

#
# Wireless LAN (non-hamradio)
#
# CONFIG_NET_RADIO is not set

#
# Token Ring devices
#
# CONFIG_TR is not set
# CONFIG_NET_FC is not set
# CONFIG_RCPCI is not set
# CONFIG_SHAPER is not set

#
# Wan interfaces
#
# CONFIG_WAN is not set

#
# Amateur Radio support
#
# CONFIG_HAMRADIO is not set

#
# IrDA (infrared) support
#
# CONFIG_IRDA is not set

#
# ISDN subsystem
#
# CONFIG_ISDN is not set

#
# Old CD-ROM drivers (not SCSI, not IDE)
#
# CONFIG_CD_NO_IDESCSI is not set

#
# Input core support
#
CONFIG_INPUT=y
CONFIG_INPUT_KEYBDEV=y
CONFIG_INPUT_MOUSEDEV=y
CONFIG_INPUT_MOUSEDEV_SCREEN_X=1024
CONFIG_INPUT_MOUSEDEV_SCREEN_Y=768
CONFIG_INPUT_JOYDEV=y
CONFIG_INPUT_EVDEV=y
# CONFIG_INPUT_UINPUT is not set
```

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```
#
# Character devices
#
CONFIG_VT=y
CONFIG_VT_CONSOLE=y
CONFIG_SERIAL=y
CONFIG_SERIAL_CONSOLE=y
# CONFIG_SERIAL_EXTENDED is not set
# CONFIG_SERIAL_NONSTANDARD is not set
CONFIG_UNIX98_PTYS=y
CONFIG_UNIX98_PTY_COUNT=256

#
# I2C support
#
# CONFIG_I2C is not set

#
# Mice
#
# CONFIG_BUSMOUSE is not set
CONFIG_MOUSE=y
CONFIG_PSMOUSE=y
# CONFIG_82C710_MOUSE is not set
# CONFIG_PC110_PAD is not set
# CONFIG_MK712_MOUSE is not set

#
# Joysticks
#
# CONFIG_INPUT_GAMEPORT is not set
# CONFIG_INPUT_NS558 is not set
# CONFIG_INPUT_LIGHTNING is not set
# CONFIG_INPUT_PCIGAME is not set
# CONFIG_INPUT_CS461X is not set
# CONFIG_INPUT_EMU10K1 is not set
# CONFIG_INPUT_SERIO is not set
# CONFIG_INPUT_SERPORT is not set
# CONFIG_INPUT_ANALOG is not set
# CONFIG_INPUT_A3D is not set
# CONFIG_INPUT_ADI is not set
# CONFIG_INPUT_COBRA is not set
# CONFIG_INPUT_GF2K is not set
# CONFIG_INPUT_GRIP is not set
# CONFIG_INPUT_INTERACT is not set
# CONFIG_INPUT_TMDC is not set
# CONFIG_INPUT_SIDEWINDER is not set
# CONFIG_INPUT_IFORCE_USB is not set
# CONFIG_INPUT_IFORCE_232 is not set
# CONFIG_INPUT_WARRIOR is not set
# CONFIG_INPUT_MAGELLAN is not set
```

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```
# CONFIG_INPUT_SPACEORB is not set
# CONFIG_INPUT_SPACEBALL is not set
# CONFIG_INPUT_STINGER is not set
# CONFIG_INPUT_DB9 is not set
# CONFIG_INPUT_GAMECON is not set
# CONFIG_INPUT_TURBOGRAFX is not set
# CONFIG_QIC02_TAPE is not set
# CONFIG_IPMI_HANDLER is not set
# CONFIG_IPMI_PANIC_EVENT is not set
# CONFIG_IPMI_DEVICE_INTERFACE is not set
# CONFIG_IPMI_KCS is not set
# CONFIG_IPMI_WATCHDOG is not set
```

```
#
# Watchdog Cards
#
# CONFIG_WATCHDOG is not set
# CONFIG_SCx200 is not set
# CONFIG_SCx200_GPIO is not set
# CONFIG_AMD_RNG is not set
# CONFIG_INTEL_RNG is not set
# CONFIG_HW_RANDOM is not set
# CONFIG_AMD_PM768 is not set
# CONFIG_NVRAM is not set
CONFIG_RTC=y
# CONFIG_DTLK is not set
# CONFIG_R3964 is not set
# CONFIG_APPLICOM is not set
# CONFIG_SONYPI is not set
```

```
#
# Ftape, the floppy tape device driver
#
# CONFIG_FTAPE is not set
CONFIG_AGP=m
# CONFIG_AGP_INTEL is not set
# CONFIG_AGP_I810 is not set
CONFIG_AGP_VIA=y
# CONFIG_AGP_AMD is not set
# CONFIG_AGP_AMD_K8 is not set
# CONFIG_AGP_SIS is not set
# CONFIG_AGP_ALI is not set
# CONFIG_AGP_SWORKS is not set
# CONFIG_AGP_NVIDIA is not set
# CONFIG_AGP_ATI is not set
```

```
#
# Direct Rendering Manager (XFree86 DRI support)
#
CONFIG_DRM=y
# CONFIG_DRM_OLD is not set
```

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```
CONFIG_DRM_NEW=y
# CONFIG_DRM_TDFX is not set
# CONFIG_DRM_GAMMA is not set
# CONFIG_DRM_R128 is not set
# CONFIG_DRM_RADEON is not set
# CONFIG_DRM_I810 is not set
# CONFIG_DRM_I810_XFREE_41 is not set
# CONFIG_DRM_I830 is not set
# CONFIG_DRM_MGA is not set
# CONFIG_DRM_SIS is not set
# CONFIG_MWAVE is not set
# CONFIG_OBMOUSE is not set

#
# Multimedia devices
#
# CONFIG_VIDEO_DEV is not set

#
# File systems
#
# CONFIG_QUOTA is not set
# CONFIG_QFMT_V2 is not set
# CONFIG_AUTOFS_FS is not set
# CONFIG_AUTOFS4_FS is not set
# CONFIG_REISERFS_FS is not set
# CONFIG_REISERFS_CHECK is not set
# CONFIG_REISERFS_PROC_INFO is not set
# CONFIG_ADFS_FS is not set
# CONFIG_ADFS_FS_RW is not set
# CONFIG_AFFS_FS is not set
# CONFIG_HFS_FS is not set
# CONFIG_HFSPLUS_FS is not set
# CONFIG_BEFS_FS is not set
# CONFIG_BEFS_DEBUG is not set
# CONFIG_BFS_FS is not set
# CONFIG_EXT3_FS is not set
# CONFIG_JBD is not set
# CONFIG_JBD_DEBUG is not set
# CONFIG_FAT_FS is not set
# CONFIG_MSDOS_FS is not set
# CONFIG_UMSDOS_FS is not set
# CONFIG_VFAT_FS is not set
# CONFIG_EFS_FS is not set
# CONFIG_JFFS_FS is not set
# CONFIG_JFFS2_FS is not set
# CONFIG_CRAMFS is not set
CONFIG_TMPFS=y
CONFIG_RAMFS=y
# CONFIG_ISO9660_FS is not set
# CONFIG_JOLIET is not set
```

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```
# CONFIG_ZISOFS is not set
# CONFIG_JFS_FS is not set
# CONFIG_JFS_DEBUG is not set
# CONFIG_JFS_STATISTICS is not set
# CONFIG_MINIX_FS is not set
# CONFIG_VXFS_FS is not set
# CONFIG_NTFS_FS is not set
# CONFIG_NTFS_RW is not set
# CONFIG_HPFS_FS is not set
CONFIG_PROC_FS=y
# CONFIG_DEVFS_FS is not set
# CONFIG_DEVFS_MOUNT is not set
# CONFIG_DEVFS_DEBUG is not set
CONFIG_DEVPTS_FS=y
# CONFIG_QNX4FS_FS is not set
# CONFIG_QNX4FS_RW is not set
# CONFIG_ROMFS_FS is not set
CONFIG_EXT2_FS=y
# CONFIG_SYSV_FS is not set
# CONFIG_UDF_FS is not set
# CONFIG_UDF_RW is not set
# CONFIG_UFS_FS is not set
# CONFIG_UFS_FS_WRITE is not set
# CONFIG_XFS_FS is not set
# CONFIG_XFS_QUOTA is not set
# CONFIG_XFS_RT is not set
# CONFIG_XFS_TRACE is not set
# CONFIG_XFS_DEBUG is not set

#
# Network File Systems
#
# CONFIG_CODA_FS is not set
# CONFIG_INTERMEZZO_FS is not set
CONFIG_NFS_FS=y
CONFIG_NFS_V3=y
# CONFIG_NFS_DIRECTIO is not set
# CONFIG_ROOT_NFS is not set
# CONFIG_NFSD is not set
# CONFIG_NFSD_V3 is not set
# CONFIG_NFSD_TCP is not set
CONFIG_SUNRPC=y
CONFIG_LOCKD=y
CONFIG_LOCKD_V4=y
CONFIG_SMB_FS=y
# CONFIG_SMB_NLS_DEFAULT is not set
# CONFIG_SMB_UNIX is not set
# CONFIG_NCP_FS is not set
# CONFIG_NCPFS_PACKET_SIGNING is not set
# CONFIG_NCPFS_IOCTL_LOCKING is not set
# CONFIG_NCPFS_STRONG is not set
```

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```
# CONFIG_NCPFS_NFS_NS is not set
# CONFIG_NCPFS_OS2_NS is not set
# CONFIG_NCPFS_SMALLDOS is not set
# CONFIG_NCPFS_NLS is not set
# CONFIG_NCPFS_EXTRAS is not set
# CONFIG_ZISOFS_FS is not set

#
# Partition Types
#
# CONFIG_PARTITION_ADVANCED is not set
CONFIG_MSDOS_PARTITION=y
CONFIG_SMB_NLS=y
CONFIG_NLS=y

#
# Native Language Support
#
CONFIG_NLS_DEFAULT="iso8859-1"
CONFIG_NLS_CODEPAGE_437=y
# CONFIG_NLS_CODEPAGE_737 is not set
# CONFIG_NLS_CODEPAGE_775 is not set
# CONFIG_NLS_CODEPAGE_850 is not set
# CONFIG_NLS_CODEPAGE_852 is not set
# CONFIG_NLS_CODEPAGE_855 is not set
# CONFIG_NLS_CODEPAGE_857 is not set
# CONFIG_NLS_CODEPAGE_860 is not set
# CONFIG_NLS_CODEPAGE_861 is not set
# CONFIG_NLS_CODEPAGE_862 is not set
# CONFIG_NLS_CODEPAGE_863 is not set
# CONFIG_NLS_CODEPAGE_864 is not set
# CONFIG_NLS_CODEPAGE_865 is not set
# CONFIG_NLS_CODEPAGE_866 is not set
# CONFIG_NLS_CODEPAGE_869 is not set
# CONFIG_NLS_CODEPAGE_936 is not set
# CONFIG_NLS_CODEPAGE_950 is not set
# CONFIG_NLS_CODEPAGE_932 is not set
# CONFIG_NLS_CODEPAGE_949 is not set
# CONFIG_NLS_CODEPAGE_874 is not set
# CONFIG_NLS_ISO8859_8 is not set
# CONFIG_NLS_CODEPAGE_1250 is not set
# CONFIG_NLS_CODEPAGE_1251 is not set
CONFIG_NLS_ISO8859_1=y
# CONFIG_NLS_ISO8859_2 is not set
# CONFIG_NLS_ISO8859_3 is not set
# CONFIG_NLS_ISO8859_4 is not set
# CONFIG_NLS_ISO8859_5 is not set
# CONFIG_NLS_ISO8859_6 is not set
# CONFIG_NLS_ISO8859_7 is not set
# CONFIG_NLS_ISO8859_9 is not set
# CONFIG_NLS_ISO8859_13 is not set
```

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```
# CONFIG_NLS_ISO8859_14 is not set
# CONFIG_NLS_ISO8859_15 is not set
# CONFIG_NLS_KOI8_R is not set
# CONFIG_NLS_KOI8_U is not set
# CONFIG_NLS_UTF8 is not set

#
# Console drivers
#
# CONFIG_VGA_CONSOLE is not set
CONFIG_VIDEO_SELECT=y
# CONFIG_MDA_CONSOLE is not set

#
# Frame–buffer support
#
CONFIG_FB=y
CONFIG_DUMMY_CONSOLE=y
# CONFIG_FB_RIVA is not set
# CONFIG_FB_CLGEN is not set
# CONFIG_FB_PM2 is not set
# CONFIG_FB_PM3 is not set
# CONFIG_FB_CYBER2000 is not set
# CONFIG_FB_VESA is not set
# CONFIG_FB_VGA16 is not set
# CONFIG_FB_HGA is not set
CONFIG_VIDEO_SELECT=y
# CONFIG_FB_MATROX is not set
# CONFIG_FB_ATY is not set
# CONFIG_FB_RADEON is not set
# CONFIG_FB_ATY128 is not set
# CONFIG_FB_INTEL is not set
# CONFIG_FB_SIS is not set
# CONFIG_FB_NEOMAGIC is not set
# CONFIG_FB_3DFX is not set
# CONFIG_FB_VOODOO1 is not set
# CONFIG_FB_TRIDENT is not set
# CONFIG_FB_IT8181 is not set
# CONFIG_FB_VIRTUAL is not set
# CONFIG_FBCON_ADVANCED is not set
# CONFIG_FBCON_FONTWIDTH8_ONLY is not set
# CONFIG_FBCON_FONTS is not set
CONFIG_FONT_8x8=y
CONFIG_FONT_8x16=y

#
# Sound
#
CONFIG_SOUND=y
# CONFIG_SOUND_ALI5455 is not set
# CONFIG_SOUND_BT878 is not set
```

Re: Cached memory never gets released

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```
# CONFIG_SOUND_CMPCI is not set
# CONFIG_SOUND_EMU10K1 is not set
# CONFIG_MIDI_EMU10K1 is not set
# CONFIG_SOUND_FUSION is not set
# CONFIG_SOUND_CS4281 is not set
# CONFIG_SOUND_ES1370 is not set
# CONFIG_SOUND_ES1371 is not set
# CONFIG_SOUND_ESSSOLO1 is not set
# CONFIG_SOUND_MAESTRO is not set
# CONFIG_SOUND_MAESTRO3 is not set
# CONFIG_SOUND_FORTE is not set
# CONFIG_SOUND_ICH is not set
# CONFIG_SOUND_RME96XX is not set
# CONFIG_SOUND_SONICVIBES is not set
# CONFIG_SOUND_TRIDENT is not set
# CONFIG_SOUND_MSNDCLAS is not set
# CONFIG_SOUND_MSNDPIN is not set
CONFIG_SOUND_VIA82CXXX=m
# CONFIG_MIDI_VIA82CXXX is not set
# CONFIG_SOUND_OSS is not set
# CONFIG_SOUND_TVMIXER is not set
# CONFIG_SOUND_AD1980 is not set
# CONFIG_SOUND_WM97XX is not set

#
# USB support
#
CONFIG_USB=y
# CONFIG_USB_DEBUG is not set
CONFIG_USB_DEVICEFS=y
# CONFIG_USB_BANDWIDTH is not set
# CONFIG_USB_EHCI_HCD is not set
CONFIG_USB_UHCI=y
# CONFIG_USB_UHCI_ALT is not set
# CONFIG_USB_OHCI is not set
# CONFIG_USB_SL811HS_ALT is not set
# CONFIG_USB_SL811HS is not set
# CONFIG_USB_AUDIO is not set
# CONFIG_USB_EMI26 is not set
# CONFIG_USB_BLUETOOTH is not set
# CONFIG_USB_MIDI is not set
# CONFIG_USB_STORAGE is not set
# CONFIG_USB_STORAGE_DEBUG is not set
# CONFIG_USB_STORAGE_DATAFAB is not set
# CONFIG_USB_STORAGE_FREECOM is not set
# CONFIG_USB_STORAGE_ISD200 is not set
# CONFIG_USB_STORAGE_DPCM is not set
# CONFIG_USB_STORAGE_HP8200e is not set
# CONFIG_USB_STORAGE_SDDR09 is not set
# CONFIG_USB_STORAGE_SDDR55 is not set
# CONFIG_USB_STORAGE_JUMPHOT is not set
```

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```
# CONFIG_USB_ACM is not set
# CONFIG_USB_PRINTER is not set
CONFIG_USB_HID=y
CONFIG_USB_HIDINPUT=y
# CONFIG_USB_HIDDEV is not set
# CONFIG_USB_AIPTEK is not set
# CONFIG_USB_WACOM is not set
# CONFIG_USB_KBTAB is not set
# CONFIG_USB_POWERMATE is not set
# CONFIG_USB_DC2XX is not set
# CONFIG_USB_MDC800 is not set
# CONFIG_USB_SCANNER is not set
# CONFIG_USB_MICROTEK is not set
# CONFIG_USB_HPUSBSCSI is not set
# CONFIG_USB_PEGASUS is not set
# CONFIG_USB_RTL8150 is not set
# CONFIG_USB_KAWETH is not set
# CONFIG_USB_CATC is not set
# CONFIG_USB_CDCETHER is not set
# CONFIG_USB_USBNET is not set
# CONFIG_USB_USS720 is not set

#
# USB Serial Converter support
#
# CONFIG_USB_SERIAL is not set
# CONFIG_USB_RIO500 is not set
# CONFIG_USB_AUERSWALD is not set
# CONFIG_USB_TIGL is not set
# CONFIG_USB_BRLVGER is not set
# CONFIG_USB_LCD is not set

#
# Support for USB gadgets
#
# CONFIG_USB_GADGET is not set

#
# Bluetooth support
#
# CONFIG_BLUEZ is not set

#
# Kernel hacking
#
CONFIG_DEBUG_KERNEL=y
# CONFIG_DEBUG_STACKOVERFLOW is not set
# CONFIG_DEBUG_HIGHMEM is not set
# CONFIG_DEBUG_SLAB is not set
# CONFIG_DEBUG_IOVIRT is not set
# CONFIG_MAGIC_SYSRQ is not set
```

Re: Cached memory never gets released

Linux-Kernel: Re: Cached memory never gets released

```
# CONFIG_DEBUG_SPINLOCK is not set
# CONFIG_FRAME_POINTER is not set
CONFIG_LOG_BUF_SHIFT=0
```

```
#
# Cryptographic options
#
# CONFIG_CRYPTO is not set
```

```
#
# Library routines
#
# CONFIG_CRC32 is not set
# CONFIG_ZLIB_INFLATE is not set
# CONFIG_ZLIB_DEFLATE is not set
```

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