

sluggish system responsiveness under higher IO load

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-08/msg01875.html>

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 - *Date:* Sun, 6 Aug 2006 12:00:37 +0200
-

Hello everyone.

Since I bought my current system, I have experienced sluggish system responsiveness when the IO load increases to a certain point.

For example: when I emerge (gentoo system) new kernel sources, during the untar process of the archive, Xorg gets sluggish, meaning you can sometimes see the entire desktop or windows repainting or the mouse pointer jumps around. From time to time, depending on the IO load, even typing in the console doesn't respond right away.

I opened a thread in the gentoo support forum for amd64 which brought some details to light: it doesn't seem to be a nforce4 or amd64 related problem, because other people on newer intel based systems run into exactly the same problems. It looks like a general sata issue. Here a link to the thread:

<http://forums.gentoo.org/viewtopic-t-482731.html>

For the sake of completeness, here my system stats: AMD64 3500+ (Winchester), Nforce4 Ultra (Gigabyte K8N-Ultra9 board), 1 GiG ram, Samsung SP1614C sata disk (rev SW10). I am utilizing a up2date 64 bit gentoo system and tried different kernels (current git snapshots, vanilla and others). (currently gentoo based sources 2.6.17-r4). Bbased on reports in the above mentioned thread, this issue still exists in the current 2.6.18 tree.

Below my kernel config and boot msgs. Please cc' replies to me as I am not subscribed to the list.

If I can be of any help in tracking this down, just let me know.

Have a nice weekend,
matthew.

```
#  
# Automatically generated make config: don't edit  
# Linux kernel version: 2.6.17-gentoo-r4  
# Fri Jul 28 23:23:55 2006
```

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```
#
CONFIG_X86_64=y
CONFIG_64BIT=y
CONFIG_X86=y
CONFIG_SEMAPHORE_SLEEPERS=y
CONFIG_MMU=y
CONFIG_RWSEM_GENERIC_SPINLOCK=y
CONFIG_GENERIC_HWEIGHT=y
CONFIG_GENERIC_CALIBRATE_DELAY=y
CONFIG_X86_CMPXCHG=y
CONFIG_EARLY_PRINTK=y
CONFIG_GENERIC_ISA_DMA=y
CONFIG_GENERIC_IOMAP=y
CONFIG_ARCH_MAY_HAVE_PC_FDC=y
CONFIG_DMI=y

#
# Code maturity level options
#
CONFIG_EXPERIMENTAL=y
CONFIG_BROKEN_ON_SMP=y
CONFIG_LOCK_KERNEL=y
CONFIG_INIT_ENV_ARG_LIMIT=32

#
# General setup
#
CONFIG_LOCALVERSION=""
# CONFIG_LOCALVERSION_AUTO is not set
CONFIG_SWAP=y
CONFIG_SYSVIPC=y
CONFIG_POSIX_QUEUE=y
CONFIG_BSD_PROCESS_ACCT=y
CONFIG_BSD_PROCESS_ACCT_V3=y
CONFIG_SYSCTL=y
# CONFIG_AUDIT is not set
CONFIG_IKCONFIG=y
CONFIG_IKCONFIG_PROC=y
# CONFIG_RELAY is not set
CONFIG_INITRAMFS_SOURCE=""
CONFIG_UID16=y
CONFIG_VM86=y
# CONFIG_CC_OPTIMIZE_FOR_SIZE is not set
# CONFIG_EMBEDDED is not set
CONFIG_KALLSYMS=y
# CONFIG_KALLSYMS_ALL is not set
# CONFIG_KALLSYMS_EXTRA_PASS is not set
CONFIG_HOTPLUG=y
CONFIG_PRINTK=y
CONFIG_BUG=y
CONFIG_ELF_CORE=y
```

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```
CONFIG_BASE_FULL=y
CONFIG_FUTEX=y
CONFIG_EPOLL=y
CONFIG_SHMEM=y
CONFIG_SLAB=y
# CONFIG_TINY_SHMEM is not set
CONFIG_BASE_SMALL=0
# CONFIG_SLOB is not set

#
# Loadable module support
#
CONFIG_MODULES=y
CONFIG_MODULE_UNLOAD=y
# CONFIG_MODULE_FORCE_UNLOAD is not set
# CONFIG_MODVERSIONS is not set
# CONFIG_MODULE_SRCVERSION_ALL is not set
CONFIG_KMOD=y

#
# Block layer
#
# CONFIG_LBD is not set
# CONFIG_BLK_DEV_IO_TRACE is not set
# CONFIG_LSF is not set

#
# IO Schedulers
#
CONFIG_IOSCHED_NOOP=y
CONFIG_IOSCHED_AS=y
CONFIG_IOSCHED_DEADLINE=y
CONFIG_IOSCHED_CFQ=y
# CONFIG_DEFAULT_AS is not set
# CONFIG_DEFAULT_DEADLINE is not set
CONFIG_DEFAULT_CFQ=y
# CONFIG_DEFAULT_NOOP is not set
CONFIG_DEFAULT_IOSCHED="cfq"

#
# Processor type and features
#
CONFIG_X86_PC=y
# CONFIG_X86_VSMP is not set
CONFIG_MK8=y
# CONFIG_MPSC is not set
# CONFIG_GENERIC_CPU is not set
CONFIG_X86_L1_CACHE_BYTES=64
CONFIG_X86_L1_CACHE_SHIFT=6
CONFIG_X86_INTERNODE_CACHE_BYTES=64
CONFIG_X86_TSC=y
```

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```
CONFIG_X86_GOOD_APIC=y
# CONFIG_MICROCODE is not set
CONFIG_X86_MSR=y
CONFIG_X86_CPUID=y
CONFIG_X86_IO_APIC=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_MTRR=y
# CONFIG_SMP is not set
# CONFIG_PREEMPT_NONE is not set
# CONFIG_PREEMPT_VOLUNTARY is not set
CONFIG_PREEMPT=y
CONFIG_PREEMPT_BKL=y
CONFIG_ARCH_SPARSEMEM_ENABLE=y
CONFIG_ARCH_FLATMEM_ENABLE=y
CONFIG_SELECT_MEMORY_MODEL=y
# CONFIG_FLATMEM_MANUAL is not set
# CONFIG_DISCONTIGMEM_MANUAL is not set
CONFIG_SPARSEMEM_MANUAL=y
CONFIG_SPARSEMEM=y
CONFIG_HAVE_MEMORY_PRESENT=y
# CONFIG_SPARSEMEM_STATIC is not set
CONFIG_SPARSEMEM_EXTREME=y
# CONFIG_MEMORY_HOTPLUG is not set
CONFIG_SPLIT_PTLOCK_CPUS=4
CONFIG_HPET_TIMER=y
# CONFIG_HPET_EMULATE_RTC is not set
CONFIG_GART_IOMMU=y
CONFIG_SWIOTLB=y
CONFIG_X86_MCE=y
# CONFIG_X86_MCE_INTEL is not set
CONFIG_X86_MCE_AMD=y
# CONFIG_KEXEC is not set
# CONFIG_CRASH_DUMP is not set
CONFIG_PHYSICAL_START=0x200000
CONFIG_SECCOMP=y
# CONFIG_HZ_100 is not set
CONFIG_HZ_250=y
# CONFIG_HZ_1000 is not set
CONFIG_HZ=250
CONFIG_REORDER=y
CONFIG_GENERIC_HARDIRQS=y
CONFIG_GENERIC_IRQ_PROBE=y
CONFIG_ISA_DMA_API=y

#
# Power management options
#
CONFIG_PM=y
CONFIG_PM_LEGACY=y
# CONFIG_PM_DEBUG is not set
# CONFIG_SOFTWARE_SUSPEND is not set
```

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```
#
# ACPI (Advanced Configuration and Power Interface) Support
#
CONFIG_ACPI=y
# CONFIG_ACPI_SLEEP is not set
# CONFIG_ACPI_AC is not set
# CONFIG_ACPI_BATTERY is not set
CONFIG_ACPI_BUTTON=y
# CONFIG_ACPI_VIDEO is not set
# CONFIG_ACPI_HOTKEY is not set
CONFIG_ACPI_FAN=y
CONFIG_ACPI_PROCESSOR=y
CONFIG_ACPI_THERMAL=y
# CONFIG_ACPI_ASUS is not set
# CONFIG_ACPI_IBM is not set
# CONFIG_ACPI_TOSHIBA is not set
CONFIG_ACPI_BLACKLIST_YEAR=0
# CONFIG_ACPI_DEBUG is not set
CONFIG_ACPI_EC=y
CONFIG_ACPI_POWER=y
CONFIG_ACPI_SYSTEM=y
CONFIG_X86_PM_TIMER=y
# CONFIG_ACPI_CONTAINER is not set
# CONFIG_ACPI_HOTPLUG_MEMORY is not set

#
# CPU Frequency scaling
#
CONFIG_CPU_FREQ=y
CONFIG_CPU_FREQ_TABLE=y
# CONFIG_CPU_FREQ_DEBUG is not set
CONFIG_CPU_FREQ_STAT=y
CONFIG_CPU_FREQ_STAT_DETAILS=y
CONFIG_CPU_FREQ_DEFAULT_GOV_PERFORMANCE=y
# CONFIG_CPU_FREQ_DEFAULT_GOV_USERSPACE is not set
CONFIG_CPU_FREQ_GOV_PERFORMANCE=y
CONFIG_CPU_FREQ_GOV_POWERSAVE=y
CONFIG_CPU_FREQ_GOV_USERSPACE=y
CONFIG_CPU_FREQ_GOV_ONDEMAND=y
CONFIG_CPU_FREQ_GOV_CONSERVATIVE=y

#
# CPUFreq processor drivers
#
CONFIG_X86_POWERNOW_K8=y
CONFIG_X86_POWERNOW_K8_ACPI=y
# CONFIG_X86_SPEEDSTEP_CENTRINO is not set
# CONFIG_X86_ACPI_CPUFREQ is not set

#
```

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```
# shared options
#
CONFIG_X86_ACPI_CPUFREQ_PROC_INTF=y
# CONFIG_X86_SPEEDSTEP_LIB is not set

#
# Bus options (PCI etc.)
#
CONFIG_PCI=y
CONFIG_PCI_DIRECT=y
CONFIG_PCI_MMCONFIG=y
CONFIG_PCIEPORTBUS=y
CONFIG_PCI_MSI=y
# CONFIG_PCI_DEBUG is not set

#
# PCCARD (PCMCIA/CardBus) support
#
# CONFIG_PCCARD is not set

#
# PCI Hotplug Support
#
# CONFIG_HOTPLUG_PCI is not set

#
# Executable file formats / Emulations
#
CONFIG_BINFMT_ELF=y
CONFIG_BINFMT_MISC=y
CONFIG_IA32_EMULATION=y
CONFIG_IA32_AOUT=y
CONFIG_COMPAT=y
CONFIG_SYSVIPC_COMPAT=y

#
# Networking
#
CONFIG_NET=y

#
# Networking options
#
# CONFIG_NETDEBUG is not set
CONFIG_PACKET=y
CONFIG_PACKET_MMAP=y
CONFIG_UNIX=y
CONFIG_XFRM=y
CONFIG_XFRM_USER=y
CONFIG_NET_KEY=y
CONFIG_INET=y
```

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```
CONFIG_IP_MULTICAST=y
# CONFIG_IP_ADVANCED_ROUTER is not set
CONFIG_IP_FIB_HASH=y
# CONFIG_IP_PNP is not set
CONFIG_NET_IPIP=m
# CONFIG_NET_IPGRE is not set
# CONFIG_IP_MROUTE is not set
# CONFIG_ARPD is not set
# CONFIG_SYN_COOKIES is not set
# CONFIG_INET_AH is not set
# CONFIG_INET_ESP is not set
# CONFIG_INET_IPCOMP is not set
# CONFIG_INET_XFRM_TUNNEL is not set
CONFIG_INET_TUNNEL=m
# CONFIG_INET_DIAG is not set
# CONFIG_TCP_CONG_ADVANCED is not set
CONFIG_TCP_CONG_BIC=y

#
# IP: Virtual Server Configuration
#
# CONFIG_IP_VS is not set
# CONFIG_IPV6 is not set
# CONFIG_INET6_XFRM_TUNNEL is not set
# CONFIG_INET6_TUNNEL is not set
CONFIG_NETFILTER=y
# CONFIG_NETFILTER_DEBUG is not set

#
# Core Netfilter Configuration
#
CONFIG_NETFILTER_NETLINK=m
CONFIG_NETFILTER_NETLINK_QUEUE=m
CONFIG_NETFILTER_NETLINK_LOG=m
CONFIG_NETFILTER_XTABLES=m
CONFIG_NETFILTER_XT_TARGET_CLASSIFY=m
CONFIG_NETFILTER_XT_TARGET_CONNMARK=m
CONFIG_NETFILTER_XT_TARGET_MARK=m
CONFIG_NETFILTER_XT_TARGET_NFQUEUE=m
CONFIG_NETFILTER_XT_TARGET_NOTRACK=m
CONFIG_NETFILTER_XT_MATCH_COMMENT=m
CONFIG_NETFILTER_XT_MATCH_CONNBYTES=m
CONFIG_NETFILTER_XT_MATCH_CONNMARK=m
CONFIG_NETFILTER_XT_MATCH_CONNTRACK=m
CONFIG_NETFILTER_XT_MATCH_DCCP=m
CONFIG_NETFILTER_XT_MATCH_ESP=m
CONFIG_NETFILTER_XT_MATCH_HELPER=m
CONFIG_NETFILTER_XT_MATCH_LENGTH=m
CONFIG_NETFILTER_XT_MATCH_LIMIT=m
CONFIG_NETFILTER_XT_MATCH_MAC=m
CONFIG_NETFILTER_XT_MATCH_MARK=m
```

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```
CONFIG_NETFILTER_XT_MATCH_POLICY=m
CONFIG_NETFILTER_XT_MATCH_MULTIPORT=m
CONFIG_NETFILTER_XT_MATCH_PKTTYPE=m
CONFIG_NETFILTER_XT_MATCH_REALM=m
CONFIG_NETFILTER_XT_MATCH_SCTP=m
CONFIG_NETFILTER_XT_MATCH_STATE=m
CONFIG_NETFILTER_XT_MATCH_STRING=m
CONFIG_NETFILTER_XT_MATCH_TCPMSS=m
```

```
#
```

```
# IP: Netfilter Configuration
```

```
#
```

```
CONFIG_IP_NF_CONNTRACK=m
CONFIG_IP_NF_CT_ACCT=y
CONFIG_IP_NF_CONNTRACK_MARK=y
CONFIG_IP_NF_CONNTRACK_EVENTS=y
CONFIG_IP_NF_CONNTRACK_NETLINK=m
CONFIG_IP_NF_CT_PROTO_SCTP=m
CONFIG_IP_NF_FTP=m
CONFIG_IP_NF_IRC=m
CONFIG_IP_NF_NETBIOS_NS=m
CONFIG_IP_NF_TFTP=m
CONFIG_IP_NF_AMANDA=m
CONFIG_IP_NF_PPTP=m
CONFIG_IP_NF_H323=m
CONFIG_IP_NF_QUEUE=m
CONFIG_IP_NF_IPTABLES=m
CONFIG_IP_NF_MATCH_IPRANGE=m
CONFIG_IP_NF_MATCH_TOS=m
CONFIG_IP_NF_MATCH_RECENT=m
CONFIG_IP_NF_MATCH_ECN=m
CONFIG_IP_NF_MATCH_DSCP=m
CONFIG_IP_NF_MATCH_AH=m
CONFIG_IP_NF_MATCH_TTL=m
CONFIG_IP_NF_MATCH_OWNER=m
CONFIG_IP_NF_MATCH_ADDRTYPE=m
CONFIG_IP_NF_MATCH_HASHLIMIT=m
CONFIG_IP_NF_FILTER=m
CONFIG_IP_NF_TARGET_REJECT=m
CONFIG_IP_NF_TARGET_LOG=m
CONFIG_IP_NF_TARGET_ULOG=m
CONFIG_IP_NF_TARGET_TCPMSS=m
CONFIG_IP_NF_NAT=m
CONFIG_IP_NF_NAT_NEEDED=y
CONFIG_IP_NF_TARGET_MASQUERADE=m
CONFIG_IP_NF_TARGET_REDIRECT=m
CONFIG_IP_NF_TARGET_NETMAP=m
CONFIG_IP_NF_TARGET_SAME=m
CONFIG_IP_NF_NAT_SNMP_BASIC=m
CONFIG_IP_NF_NAT_IRC=m
CONFIG_IP_NF_NAT_FTP=m
```

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```
CONFIG_IP_NF_NAT_TFTP=m
CONFIG_IP_NF_NAT_AMANDA=m
CONFIG_IP_NF_NAT_PPTP=m
CONFIG_IP_NF_NAT_H323=m
CONFIG_IP_NF_MANGLE=m
CONFIG_IP_NF_TARGET_TOS=m
CONFIG_IP_NF_TARGET_ECN=m
CONFIG_IP_NF_TARGET_DSCP=m
CONFIG_IP_NF_TARGET_TTL=m
CONFIG_IP_NF_TARGET_CLUSTERIP=m
CONFIG_IP_NF_RAW=m
CONFIG_IP_NF_ARPTABLES=m
CONFIG_IP_NF_ARPFILTER=m
CONFIG_IP_NF_ARP_MANGLE=m
```

```
#
# DCCP Configuration (EXPERIMENTAL)
#
# CONFIG_IP_DCCP is not set
```

```
#
# SCTP Configuration (EXPERIMENTAL)
#
# CONFIG_IP_SCTP is not set
```

```
#
# TIPC Configuration (EXPERIMENTAL)
#
# CONFIG_TIPC is not set
# CONFIG_ATM is not set
# CONFIG_BRIDGE is not set
# CONFIG_VLAN_8021Q is not set
# CONFIG_DECNET is not set
# CONFIG_LLC2 is not set
# CONFIG_IPX is not set
# CONFIG_ATALK is not set
# CONFIG_X25 is not set
# CONFIG_LAPB is not set
# CONFIG_NET_DIVERT is not set
# CONFIG_ECONET is not set
# CONFIG_WAN_ROUTER is not set
```

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

```
#
# Network testing
#
```

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```
# CONFIG_NET_PKTGEN is not set
# CONFIG_HAMRADIO is not set
# CONFIG_IRDA is not set
# CONFIG_BT is not set
# CONFIG_IEEE80211 is not set

#
# Device Drivers
#

#
# Generic Driver Options
#
CONFIG_STANDALONE=y
CONFIG_PREVENT_FIRMWARE_BUILD=y
# CONFIG_FW_LOADER is not set
# CONFIG_DEBUG_DRIVER is not set

#
# Connector – unified userspace <-> kernelspace linker
#
CONFIG_CONNECTOR=m

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

#
# Parallel port support
#
# CONFIG_PARPORT is not set

#
# Plug and Play support
#
CONFIG_PNP=y
# CONFIG_PNP_DEBUG is not set

#
# Protocols
#
CONFIG_PNPACPI=y

#
# Block devices
#
# CONFIG_BLK_DEV_FD is not set
# CONFIG_BLK_CPQ_DA is not set
# CONFIG_BLK_CPQ_CISS_DA is not set
# CONFIG_BLK_DEV_DAC960 is not set
```

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```
# CONFIG_BLK_DEV_UMEM is not set
# CONFIG_BLK_DEV_COW_COMMON is not set
CONFIG_BLK_DEV_LOOP=m
CONFIG_BLK_DEV_CRYPTOLOOP=m
# CONFIG_BLK_DEV_NBD is not set
# CONFIG_BLK_DEV_SX8 is not set
# CONFIG_BLK_DEV_UB is not set
CONFIG_BLK_DEV_RAM=m
CONFIG_BLK_DEV_RAM_COUNT=16
CONFIG_BLK_DEV_RAM_SIZE=8192
# CONFIG_BLK_DEV_INITRD is not set
CONFIG_CDROM_PKTCDVD=y
CONFIG_CDROM_PKTCDVD_BUFFERS=16
# CONFIG_CDROM_PKTCDVD_WCACHE is not set
# CONFIG_ATA_OVER_ETH is not set

#
# ATA/ATAPI/MFM/RLL support
#
CONFIG_IDE=y
CONFIG_BLK_DEV_IDE=y

#
# Please see Documentation/ide.txt for help/info on IDE drives
#
# CONFIG_BLK_DEV_IDE_SATA is not set
# CONFIG_BLK_DEV_HD_IDE is not set
CONFIG_BLK_DEV_IDEDISK=y
# CONFIG_IDEDISK_MULTI_MODE is not set
CONFIG_BLK_DEV_IDECD=y
# 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

#
# IDE chipset support/bugfixes
#
# CONFIG_IDE_GENERIC is not set
# CONFIG_BLK_DEV_CMD640 is not set
# CONFIG_BLK_DEV_IDEPNP is not set
CONFIG_BLK_DEV_IDEPCI=y
# CONFIG_IDEPCI_SHARE_IRQ is not set
# CONFIG_BLK_DEV_OFFBOARD is not set
# CONFIG_BLK_DEV_GENERIC is not set
# CONFIG_BLK_DEV_OPTI621 is not set
# CONFIG_BLK_DEV_RZ1000 is not set
CONFIG_BLK_DEV_IDEDMA_PCI=y
# CONFIG_BLK_DEV_IDEDMA_FORCED is not set
CONFIG_IDEDMA_PCI_AUTO=y
# CONFIG_IDEDMA_ONLYDISK is not set
```

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```
# CONFIG_BLK_DEV_AEC62XX is not set
# CONFIG_BLK_DEV_ALI15X3 is not set
CONFIG_BLK_DEV_AMD74XX=y
# 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_CS5520 is not set
# CONFIG_BLK_DEV_CS5530 is not set
# CONFIG_BLK_DEV_HPT34X is not set
# CONFIG_BLK_DEV_HPT366 is not set
# CONFIG_BLK_DEV_SC1200 is not set
# CONFIG_BLK_DEV_PIIX is not set
# CONFIG_BLK_DEV_IT821X is not set
# CONFIG_BLK_DEV_NS87415 is not set
# CONFIG_BLK_DEV_PDC202XX_OLD is not set
# CONFIG_BLK_DEV_PDC202XX_NEW 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 is not set
# CONFIG_IDE_ARM is not set
CONFIG_BLK_DEV_IDEDMA=y
CONFIG_IDEDMA_IVB=y
CONFIG_IDEDMA_AUTO=y
# CONFIG_BLK_DEV_HD is not set

#
# SCSI device support
#
# CONFIG_RAID_ATTRS is not set
CONFIG_SCSI=y
CONFIG_SCSI_PROC_FS=y

#
# SCSI support type (disk, tape, CD-ROM)
#
CONFIG_BLK_DEV_SD=y
# CONFIG_CHR_DEV_ST is not set
# CONFIG_CHR_DEV_OSST is not set
# CONFIG_BLK_DEV_SR is not set
# CONFIG_CHR_DEV_SG is not set
# CONFIG_CHR_DEV_SCH is not set

#
# Some SCSI devices (e.g. CD jukebox) support multiple LUNs
#
# CONFIG_SCSI_MULTI_LUN is not set
CONFIG_SCSI_CONSTANTS=y
```

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```
# CONFIG_SCSI_LOGGING is not set

#
# SCSI Transport Attributes
#
CONFIG_SCSI_SPI_ATTRS=y
# CONFIG_SCSI_FC_ATTRS is not set
# CONFIG_SCSI_ISCSI_ATTRS is not set
# CONFIG_SCSI_SAS_ATTRS is not set

#
# SCSI low-level drivers
#
# CONFIG_ISCSI_TCP is not set
# CONFIG_BLK_DEV_3W_XXXX_RAID is not set
# CONFIG_SCSI_3W_9XXX is not set
# CONFIG_SCSI_ACARD is not set
# CONFIG_SCSI_AACRAID is not set
# CONFIG_SCSI_AIC7XXX is not set
# CONFIG_SCSI_AIC7XXX_OLD is not set
# CONFIG_SCSI_AIC79XX is not set
# CONFIG_MEGARAID_NEWGEN is not set
# CONFIG_MEGARAID_LEGACY is not set
# CONFIG_MEGARAID_SAS is not set
CONFIG_SCSI_SATA=y
CONFIG_SCSI_SATA_AHCI=y
# CONFIG_SCSI_SATA_SVW is not set
# CONFIG_SCSI_ATA_PIIX is not set
# CONFIG_SCSI_SATA_MV is not set
CONFIG_SCSI_SATA_NV=y
# CONFIG_SCSI_PDC_ADMA is not set
# CONFIG_SCSI_SATA_QSTOR is not set
# CONFIG_SCSI_SATA_PROMISE is not set
# CONFIG_SCSI_SATA_SX4 is not set
# CONFIG_SCSI_SATA_SIL is not set
# CONFIG_SCSI_SATA_SIL24 is not set
# CONFIG_SCSI_SATA_SIS is not set
# CONFIG_SCSI_SATA_ULI is not set
# CONFIG_SCSI_SATA_VIA is not set
# CONFIG_SCSI_SATA_VITESSE is not set
CONFIG_SCSI_SATA_INTEL_COMBINED=y
# CONFIG_SCSI_BUSLOGIC is not set
# CONFIG_SCSI_DMX3191D is not set
# CONFIG_SCSI_EATA is not set
# CONFIG_SCSI_FUTURE_DOMAIN is not set
# CONFIG_SCSI_GDTH is not set
# CONFIG_SCSI_IPS is not set
# CONFIG_SCSI_INITIO is not set
# CONFIG_SCSI_INIA100 is not set
# CONFIG_SCSI_SYM53C8XX_2 is not set
# CONFIG_SCSI_IPR is not set
```

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```
# CONFIG_SCSI_QLOGIC_1280 is not set
# CONFIG_SCSI_QLA_FC is not set
# CONFIG_SCSI_LPFC is not set
# CONFIG_SCSI_DC395x is not set
# CONFIG_SCSI_DC390T is not set
# CONFIG_SCSI_DEBUG is not set
```

```
#
# Multi-device support (RAID and LVM)
#
# CONFIG_MD is not set
```

```
#
# Fusion MPT device support
#
# CONFIG_FUSION is not set
# CONFIG_FUSION_SPI is not set
# CONFIG_FUSION_FC is not set
# CONFIG_FUSION_SAS is not set
```

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

```
#
# I2O device support
#
# CONFIG_I2O is not set
```

```
#
# Network device support
#
CONFIG_NETDEVICES=y
CONFIG_DUMMY=y
# CONFIG_BONDING is not set
# CONFIG_EQUALIZER is not set
CONFIG_TUN=m
# CONFIG_NET_SB1000 is not set
```

```
#
# ARCnet devices
#
# CONFIG_ARCNET is not set
```

```
#
# PHY device support
#
CONFIG_PHYLIB=y
```

```
#
```

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```
# MII PHY device drivers
#
# CONFIG_MARVELL_PHY is not set
# CONFIG_DAVICOM_PHY is not set
# CONFIG_QSEMI_PHY is not set
# CONFIG_LXT_PHY is not set
# CONFIG_CICADA_PHY is not set

#
# Ethernet (10 or 100Mbit)
#
CONFIG_NET_ETHERNET=y
CONFIG_MII=y
# CONFIG_HAPPYMEAL is not set
# CONFIG_SUNGEM is not set
# CONFIG_CASSINI is not set
# CONFIG_NET_VENDOR_3COM is not set

#
# Tulip family network device support
#
# CONFIG_NET_TULIP is not set
# CONFIG_HP100 is not set
CONFIG_NET_PCI=y
# CONFIG_PCNET32 is not set
# CONFIG_AMD8111_ETH is not set
# CONFIG_ADAPTEC_STARFIRE is not set
# CONFIG_B44 is not set
CONFIG_FORCEDETH=y
# CONFIG_DGRS is not set
# CONFIG_EEPRO100 is not set
# CONFIG_E100 is not set
# CONFIG_FEALNX is not set
# CONFIG_NATSEMI is not set
# CONFIG_NE2K_PCI is not set
# CONFIG_8139CP is not set
# CONFIG_8139TOO is not set
# CONFIG_SIS900 is not set
# CONFIG_EPIC100 is not set
# CONFIG_SUNDANCE is not set
# CONFIG_VIA_RHINE is not set

#
# Ethernet (1000 Mbit)
#
# CONFIG_ACENIC is not set
# CONFIG_DL2K is not set
# CONFIG_E1000 is not set
# CONFIG_NS83820 is not set
# CONFIG_HAMACHI is not set
# CONFIG_YELLOWFIN is not set
```

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```
# CONFIG_R8169 is not set
# CONFIG_SIS190 is not set
CONFIG_SKGE=m
# CONFIG_SKY2 is not set
# CONFIG_SK98LIN is not set
# CONFIG_VIA_VELOCITY is not set
# CONFIG_TIGON3 is not set
# CONFIG_BNX2 is not set

#
# Ethernet (10000 Mbit)
#
# CONFIG_CHELSIO_T1 is not set
# CONFIG_IXGB is not set
# CONFIG_S2IO is not set

#
# Token Ring devices
#
# CONFIG_TR is not set

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

#
# Wan interfaces
#
# CONFIG_WAN is not set
# CONFIG_FDDI is not set
# CONFIG_HIPPI is not set
# CONFIG_PPP is not set
# CONFIG_SLIP is not set
# CONFIG_NET_FC is not set
# CONFIG_SHAPER is not set
# CONFIG_NETCONSOLE is not set
# CONFIG_NETPOLL is not set
# CONFIG_NET_POLL_CONTROLLER is not set

#
# ISDN subsystem
#
# CONFIG_ISDN is not set

#
# Telephony Support
#
# CONFIG_PHONE is not set

#
```

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```
# Input device support
#
CONFIG_INPUT=y

#
# Userland interfaces
#
CONFIG_INPUT_MOUSEDEV=y
# CONFIG_INPUT_MOUSEDEV_PSAUX is not set
CONFIG_INPUT_MOUSEDEV_SCREEN_X=1024
CONFIG_INPUT_MOUSEDEV_SCREEN_Y=768
# CONFIG_INPUT_JOYDEV is not set
# CONFIG_INPUT_TSDEV is not set
CONFIG_INPUT_EVDEV=y
# CONFIG_INPUT_EVBUG is not set

#
# Input Device Drivers
#
CONFIG_INPUT_KEYBOARD=y
CONFIG_KEYBOARD_ATKBD=y
# CONFIG_KEYBOARD_SUNKBD is not set
# CONFIG_KEYBOARD_LKKBD is not set
# CONFIG_KEYBOARD_XTKBD is not set
# CONFIG_KEYBOARD_NEWTON is not set
CONFIG_INPUT_MOUSE=y
CONFIG_MOUSE_PS2=y
# CONFIG_MOUSE_SERIAL is not set
# CONFIG_MOUSE_VSXXXAA is not set
# CONFIG_INPUT_JOYSTICK is not set
# CONFIG_INPUT_TOUCHSCREEN is not set
CONFIG_INPUT_MISC=y
# CONFIG_INPUT_PCSPKR is not set
CONFIG_INPUT_UINPUT=y

#
# Hardware I/O ports
#
CONFIG_SERIO=y
CONFIG_SERIO_I8042=y
# CONFIG_SERIO_SERPORT is not set
# CONFIG_SERIO_CT82C710 is not set
# CONFIG_SERIO_PCIPS2 is not set
CONFIG_SERIO_LIBPS2=y
# CONFIG_SERIO_RAW is not set
# CONFIG_GAMEPORT is not set

#
# Character devices
#
CONFIG_VT=y
```

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```
CONFIG_VT_CONSOLE=y
CONFIG_HW_CONSOLE=y
# CONFIG_SERIAL_NONSTANDARD is not set
```

```
#
# Serial drivers
#
# CONFIG_SERIAL_8250 is not set
```

```
#
# Non-8250 serial port support
#
# CONFIG_SERIAL_JSM is not set
CONFIG_UNIX98_PTYS=y
# CONFIG_LEGACY_PTYS is not set
```

```
#
# IPMI
#
# CONFIG_IPMI_HANDLER is not set
```

```
#
# Watchdog Cards
#
# CONFIG_WATCHDOG is not set
CONFIG_HW_RANDOM=y
CONFIG_NVRAM=m
CONFIG_RTC=y
# CONFIG_DTLK is not set
# CONFIG_R3964 is not set
# CONFIG_APPLICOM is not set
```

```
#
# Ftape, the floppy tape device driver
#
# CONFIG_FTAPE is not set
CONFIG_AGP=y
CONFIG_AGP_AMD64=y
# CONFIG_AGP_INTEL is not set
# CONFIG_AGP_SIS is not set
# CONFIG_AGP_VIA is not set
CONFIG_DRM=m
# CONFIG_DRM_TDFX is not set
# CONFIG_DRM_R128 is not set
# CONFIG_DRM_RADEON is not set
# CONFIG_DRM_MGA is not set
# CONFIG_DRM_SIS is not set
# CONFIG_DRM_VIA is not set
# CONFIG_DRM_SAVAGE is not set
# CONFIG_MWAVE is not set
# CONFIG_RAW_DRIVER is not set
```

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```
# CONFIG_HPET is not set
# CONFIG_HANGCHECK_TIMER is not set
```

```
#
# TPM devices
#
# CONFIG_TCG_TPM is not set
# CONFIG_TELCLOCK is not set
```

```
#
# I2C support
#
CONFIG_I2C=y
CONFIG_I2C_CHARDEV=y
```

```
#
# I2C Algorithms
#
CONFIG_I2C_ALGOBIT=y
CONFIG_I2C_ALGOPCF=y
CONFIG_I2C_ALGOPCA=y
```

```
#
# I2C Hardware Bus support
#
# CONFIG_I2C_ALI1535 is not set
# CONFIG_I2C_ALI1563 is not set
# CONFIG_I2C_ALI15X3 is not set
CONFIG_I2C_AMD756=m
# CONFIG_I2C_AMD756_S4882 is not set
# CONFIG_I2C_AMD8111 is not set
# CONFIG_I2C_I801 is not set
# CONFIG_I2C_I810 is not set
# CONFIG_I2C_PIIX4 is not set
CONFIG_I2C_ISA=m
CONFIG_I2C_NFORCE2=m
# CONFIG_I2C_PARPORT_LIGHT is not set
# CONFIG_I2C_PROSAVAGE is not set
# CONFIG_I2C_SAVAGE4 is not set
# CONFIG_I2C_SIS5595 is not set
# CONFIG_I2C_SIS630 is not set
# CONFIG_I2C_SIS96X is not set
# CONFIG_I2C_STUB is not set
# CONFIG_I2C_VIA is not set
# CONFIG_I2C_VIAPRO is not set
# CONFIG_I2C_VOODOO3 is not set
# CONFIG_I2C_PCA_ISA is not set
```

```
#
# Miscellaneous I2C Chip support
#
```

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```
# CONFIG_SENSORS_DS1337 is not set
# CONFIG_SENSORS_DS1374 is not set
CONFIG_SENSORS_EEPROM=m
# CONFIG_SENSORS_PCF8574 is not set
# CONFIG_SENSORS_PCA9539 is not set
# CONFIG_SENSORS_PCF8591 is not set
# CONFIG_SENSORS_MAX6875 is not set
# CONFIG_I2C_DEBUG_CORE is not set
# CONFIG_I2C_DEBUG_ALGO is not set
# CONFIG_I2C_DEBUG_BUS is not set
# CONFIG_I2C_DEBUG_CHIP is not set
```

```
#
# SPI support
#
# CONFIG_SPI is not set
# CONFIG_SPI_MASTER is not set
```

```
#
# Dallas's 1-wire bus
#
# CONFIG_W1 is not set
```

```
#
# Hardware Monitoring support
#
CONFIG_HWMON=y
CONFIG_HWMON_VID=m
# CONFIG_SENSORS_ADM1021 is not set
# CONFIG_SENSORS_ADM1025 is not set
# CONFIG_SENSORS_ADM1026 is not set
# CONFIG_SENSORS_ADM1031 is not set
# CONFIG_SENSORS_ADM9240 is not set
# CONFIG_SENSORS_ASB100 is not set
# CONFIG_SENSORS_ATXP1 is not set
# CONFIG_SENSORS_DS1621 is not set
# CONFIG_SENSORS_F71805F is not set
# CONFIG_SENSORS_FSCHER is not set
# CONFIG_SENSORS_FSCPOS is not set
# CONFIG_SENSORS_GL518SM is not set
# CONFIG_SENSORS_GL520SM is not set
CONFIG_SENSORS_IT87=m
# CONFIG_SENSORS_LM63 is not set
# CONFIG_SENSORS_LM75 is not set
# CONFIG_SENSORS_LM77 is not set
# CONFIG_SENSORS_LM78 is not set
# CONFIG_SENSORS_LM80 is not set
# CONFIG_SENSORS_LM83 is not set
# CONFIG_SENSORS_LM85 is not set
# CONFIG_SENSORS_LM87 is not set
# CONFIG_SENSORS_LM90 is not set
```

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```
# CONFIG_SENSORS_LM92 is not set
# CONFIG_SENSORS_MAX1619 is not set
# CONFIG_SENSORS_PC87360 is not set
# CONFIG_SENSORS_SIS5595 is not set
# CONFIG_SENSORS_SMSC47M1 is not set
# CONFIG_SENSORS_SMSC47B397 is not set
# CONFIG_SENSORS_VIA686A is not set
# CONFIG_SENSORS_VT8231 is not set
# CONFIG_SENSORS_W83781D is not set
# CONFIG_SENSORS_W83792D is not set
# CONFIG_SENSORS_W83L785TS is not set
# CONFIG_SENSORS_W83627HF is not set
# CONFIG_SENSORS_W83627EHF is not set
# CONFIG_SENSORS_HDAPS is not set
# CONFIG_HWMON_DEBUG_CHIP is not set

#
# Misc devices
#
# CONFIG_IBM_ASM is not set

#
# Multimedia devices
#
CONFIG_VIDEO_DEV=y
CONFIG_VIDEO_V4L1=y
CONFIG_VIDEO_V4L1_COMPAT=y
CONFIG_VIDEO_V4L2=y

#
# Video Capture Adapters
#

#
# Video Capture Adapters
#
# CONFIG_VIDEO_ADV_DEBUG is not set
# CONFIG_VIDEO_VIVI is not set
# CONFIG_VIDEO_BT848 is not set
# CONFIG_VIDEO_CPIA is not set
# CONFIG_VIDEO_CPIA2 is not set
# CONFIG_VIDEO_SAA5246A is not set
# CONFIG_VIDEO_SAA5249 is not set
# CONFIG_TUNER_3036 is not set
# CONFIG_VIDEO_STRADIS is not set
# CONFIG_VIDEO_ZORAN is not set
CONFIG_VIDEO_SAA7134=m
# CONFIG_VIDEO_MXB is not set
# CONFIG_VIDEO_DPC is not set
# CONFIG_VIDEO_HEXIUM_ORION is not set
# CONFIG_VIDEO_HEXIUM_GEMINI is not set
```

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```
# CONFIG_VIDEO_CX88 is not set
# CONFIG_VIDEO_OVCAMCHIP is not set
```

```
#
# Encoders and Decoders
#
# CONFIG_VIDEO_MSP3400 is not set
# CONFIG_VIDEO_CS53L32A is not set
# CONFIG_VIDEO_WM8775 is not set
# CONFIG_VIDEO_WM8739 is not set
# CONFIG_VIDEO_CX25840 is not set
# CONFIG_VIDEO_SAA711X is not set
# CONFIG_VIDEO_SAA7127 is not set
# CONFIG_VIDEO_UPD64031A is not set
# CONFIG_VIDEO_UPD64083 is not set
```

```
#
# V4L USB devices
#
# CONFIG_VIDEO_EM28XX is not set
# CONFIG_USB_DSBR is not set
# CONFIG_USB_VICAM is not set
# CONFIG_USB_IBMCAM is not set
# CONFIG_USB_KONICAWC is not set
# CONFIG_USB_ET61X251 is not set
# CONFIG_USB_OV511 is not set
# CONFIG_USB_SE401 is not set
# CONFIG_USB_SN9C102 is not set
# CONFIG_USB_STV680 is not set
# CONFIG_USB_W9968CF is not set
# CONFIG_USB_ZC0301 is not set
# CONFIG_USB_PWC is not set
```

```
#
# Radio Adapters
#
# CONFIG_RADIO_GEMTEK_PCI is not set
# CONFIG_RADIO_MAXIRADIO is not set
# CONFIG_RADIO_MAESTRO is not set
```

```
#
# Digital Video Broadcasting Devices
#
# CONFIG_DVB is not set
CONFIG_VIDEO_TUNER=m
CONFIG_VIDEO_BUF=m
CONFIG_VIDEO_IR=m
# CONFIG_USB_DABUSB is not set
```

```
#
# Graphics support
```

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```
#
# CONFIG_FB is not set
# CONFIG_VIDEO_SELECT is not set

#
# Console display driver support
#
CONFIG_VGA_CONSOLE=y
# CONFIG_VGACON_SOFT_SCROLLBACK is not set
CONFIG_DUMMY_CONSOLE=y

#
# Speakup console speech
#
# CONFIG_SPEAKUP is not set
CONFIG_SPEAKUP_DEFAULT="none"

#
# Sound
#
CONFIG_SOUND=m

#
# Advanced Linux Sound Architecture
#
# CONFIG_SND is not set

#
# Open Sound System
#
# CONFIG_SOUND_PRIME is not set

#
# USB support
#
CONFIG_USB_ARCH_HAS_HCD=y
CONFIG_USB_ARCH_HAS_OHCI=y
CONFIG_USB_ARCH_HAS_EHCI=y
CONFIG_USB=y
# CONFIG_USB_DEBUG is not set

#
# Miscellaneous USB options
#
CONFIG_USB_DEVICEFS=y
# CONFIG_USB_BANDWIDTH is not set
# CONFIG_USB_DYNAMIC_MINORS is not set
CONFIG_USB_SUSPEND=y
# CONFIG_USB_OTG is not set

#
```

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```
# USB Host Controller Drivers
#
CONFIG_USB_EHCI_HCD=y
# CONFIG_USB_EHCI_SPLIT_ISO is not set
CONFIG_USB_EHCI_ROOT_HUB_TT=y
# CONFIG_USB_ISP116X_HCD is not set
CONFIG_USB_OHCI_HCD=y
# CONFIG_USB_OHCI_BIG_ENDIAN is not set
CONFIG_USB_OHCI_LITTLE_ENDIAN=y
# CONFIG_USB_UHCI_HCD is not set
# CONFIG_USB_SL811_HCD is not set

#
# USB Device Class drivers
#
# CONFIG_USB_ACM is not set
CONFIG_USB_PRINTER=m

#
# NOTE: USB_STORAGE enables SCSI, and 'SCSI disk support'
#

#
# may also be needed; see USB_STORAGE Help for more information
#
CONFIG_USB_STORAGE=m
# 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_USBAT is not set
# CONFIG_USB_STORAGE_SDDR09 is not set
# CONFIG_USB_STORAGE_SDDR55 is not set
# CONFIG_USB_STORAGE_JUMPHOT is not set
# CONFIG_USB_STORAGE_ALAUDA is not set
# CONFIG_USB_LIBUSUAL is not set

#
# USB Input Devices
#
CONFIG_USB_HID=y
CONFIG_USB_HIDINPUT=y
# CONFIG_USB_HIDINPUT_POWERBOOK is not set
# CONFIG_HID_FF is not set
CONFIG_USB_HIDDEV=y
# CONFIG_USB_AIPTEK is not set
# CONFIG_USB_WACOM is not set
# CONFIG_USB_ACECAD is not set
# CONFIG_USB_KBTAB is not set
# CONFIG_USB_POWERMATE is not set
```

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```
# CONFIG_USB_TOUCHSCREEN is not set
# CONFIG_USB_YEALINK is not set
# CONFIG_USB_XPAD is not set
# CONFIG_USB_ATI_REMOTE is not set
# CONFIG_USB_ATI_REMOTE2 is not set
# CONFIG_USB_KEYSPAN_REMOTE is not set
# CONFIG_USB_APPLETOUCH is not set
```

```
#
# USB Imaging devices
#
# CONFIG_USB_MDC800 is not set
# CONFIG_USB_MICROTEK is not set
```

```
#
# USB Network Adapters
#
# CONFIG_USB_CATC is not set
# CONFIG_USB_KAWETH is not set
# CONFIG_USB_PEGASUS is not set
# CONFIG_USB_RTL8150 is not set
# CONFIG_USB_USBNET is not set
# CONFIG_USB_MON is not set
```

```
#
# USB port drivers
#
```

```
#
# USB Serial Converter support
#
# CONFIG_USB_SERIAL is not set
```

```
#
# USB Miscellaneous drivers
#
# CONFIG_USB_EMI62 is not set
# CONFIG_USB_EMI26 is not set
# CONFIG_USB_AUERSWALD is not set
# CONFIG_USB_RIO500 is not set
# CONFIG_USB_LEGOTOWER is not set
# CONFIG_USB_LCD is not set
# CONFIG_USB_LED is not set
# CONFIG_USB_CYTHERM is not set
# CONFIG_USB_PHIDGETKIT is not set
# CONFIG_USB_PHIDGETSERVO is not set
# CONFIG_USB_IDMOUSE is not set
# CONFIG_USB_SISUSBVGA is not set
# CONFIG_USB_LD is not set
# CONFIG_USB_TEST is not set
```

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```
#
# USB DSL modem support
#

#
# USB Gadget Support
#
# CONFIG_USB_GADGET is not set

#
# MMC/SD Card support
#
# CONFIG_MMC is not set

#
# LED devices
#
# CONFIG_NEW_LEDS is not set

#
# LED drivers
#

#
# LED Triggers
#

#
# InfiniBand support
#
# CONFIG_INFINIBAND is not set
# CONFIG_IPATH_CORE is not set

#
# EDAC – error detection and reporting (RAS) (EXPERIMENTAL)
#
# CONFIG_EDAC is not set

#
# Real Time Clock
#
# CONFIG_RTC_CLASS is not set

#
# Firmware Drivers
#
# CONFIG_EDD is not set
# CONFIG_DELL_RBU is not set
# CONFIG_DCDBAS is not set

#
```

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```
# File systems
#
CONFIG_EXT2_FS=m
CONFIG_EXT2_FS_XATTR=y
CONFIG_EXT2_FS_POSIX_ACL=y
CONFIG_EXT2_FS_SECURITY=y
# CONFIG_EXT2_FS_XIP is not set
CONFIG_EXT3_FS=y
CONFIG_EXT3_FS_XATTR=y
CONFIG_EXT3_FS_POSIX_ACL=y
CONFIG_EXT3_FS_SECURITY=y
CONFIG_JBD=y
# CONFIG_JBD_DEBUG is not set
CONFIG_FS_MBCACHE=y
CONFIG_REISERFS_FS=m
# CONFIG_REISERFS_CHECK is not set
# CONFIG_REISERFS_PROC_INFO is not set
CONFIG_REISERFS_FS_XATTR=y
CONFIG_REISERFS_FS_POSIX_ACL=y
CONFIG_REISERFS_FS_SECURITY=y
# CONFIG_JFS_FS is not set
CONFIG_FS_POSIX_ACL=y
CONFIG_XFS_FS=m
# CONFIG_XFS_QUOTA is not set
CONFIG_XFS_SECURITY=y
CONFIG_XFS_POSIX_ACL=y
CONFIG_XFS_RT=y
# CONFIG_OCFS2_FS is not set
# CONFIG_MINIX_FS is not set
# CONFIG_ROMFS_FS is not set
CONFIG_INOTIFY=y
# CONFIG_QUOTA is not set
CONFIG_DNOTIFY=y
# CONFIG_AUTOFS_FS is not set
# CONFIG_AUTOFS4_FS is not set
CONFIG_FUSE_FS=m

#
# CD-ROM/DVD Filesystems
#
CONFIG_ISO9660_FS=m
CONFIG_JOLIET=y
CONFIG_ZISOFS=y
CONFIG_ZISOFS_FS=m
CONFIG_UDF_FS=m
CONFIG_UDF_NLS=y

#
# DOS/FAT/NT Filesystems
#
CONFIG_FAT_FS=m
```

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```
CONFIG_MSDOS_FS=m
CONFIG_VFAT_FS=m
CONFIG_FAT_DEFAULT_CODEPAGE=850
CONFIG_FAT_DEFAULT_IOCHARSET="iso8859-15"
CONFIG_NTFS_FS=m
# CONFIG_NTFS_DEBUG is not set
# CONFIG_NTFS_RW is not set

#
# Pseudo filesystems
#
CONFIG_PROC_FS=y
CONFIG_PROC_KCORE=y
CONFIG_SYSFS=y
CONFIG_TMPFS=y
# CONFIG_HUGETLBFS is not set
# CONFIG_HUGETLB_PAGE is not set
CONFIG_RAMFS=y
CONFIG_CONFIGFS_FS=y

#
# Miscellaneous filesystems
#
# CONFIG_ADFS_FS 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_BFS_FS is not set
# CONFIG_EFS_FS is not set
# CONFIG_CRAMFS is not set
# CONFIG_SQUASHFS is not set
# CONFIG_VXFS_FS is not set
# CONFIG_HPFS_FS is not set
# CONFIG_QNX4FS_FS is not set
# CONFIG_SYSV_FS is not set
# CONFIG_UFS_FS is not set

#
# Network File Systems
#
# CONFIG_NFS_FS is not set
# CONFIG_NFSD is not set
CONFIG_SMB_FS=m
# CONFIG_SMB_NLS_DEFAULT is not set
# CONFIG_CIFS is not set
# CONFIG_NCP_FS is not set
# CONFIG_CODA_FS is not set
# CONFIG_AFS_FS is not set
# CONFIG_9P_FS is not set
```

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```
#
# Partition Types
#
# CONFIG_PARTITION_ADVANCED is not set
CONFIG_MSDOS_PARTITION=y

#
# Native Language Support
#
CONFIG_NLS=y
CONFIG_NLS_DEFAULT="iso8859-15"
CONFIG_NLS_CODEPAGE_437=y
# CONFIG_NLS_CODEPAGE_737 is not set
# CONFIG_NLS_CODEPAGE_775 is not set
CONFIG_NLS_CODEPAGE_850=y
CONFIG_NLS_CODEPAGE_852=y
# 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=y
# CONFIG_NLS_CODEPAGE_1251 is not set
# CONFIG_NLS_ASCII 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
# CONFIG_NLS_ISO8859_14 is not set
CONFIG_NLS_ISO8859_15=y
# CONFIG_NLS_KOI8_R is not set
# CONFIG_NLS_KOI8_U is not set
CONFIG_NLS_UTF8=y

#
```

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```
# Instrumentation Support
#
# CONFIG_PROFILING is not set
# CONFIG_KPROBES is not set

#
# Kernel hacking
#
# CONFIG_PRINTK_TIME is not set
CONFIG_MAGIC_SYSRQ=y
CONFIG_DEBUG_KERNEL=y
CONFIG_LOG_BUF_SHIFT=15
# CONFIG_DETECT_SOFTLOCKUP is not set
# CONFIG_SCHEDSTATS is not set
# CONFIG_DEBUG_SLAB is not set
# CONFIG_DEBUG_PREEMPT is not set
# CONFIG_DEBUG_MUTEXES is not set
# CONFIG_DEBUG_SPINLOCK is not set
# CONFIG_DEBUG_SPINLOCK_SLEEP is not set
# CONFIG_DEBUG_KOBJECT is not set
# CONFIG_DEBUG_INFO is not set
# CONFIG_DEBUG_FS is not set
# CONFIG_DEBUG_VM is not set
# CONFIG_FRAME_POINTER is not set
# CONFIG_UNWIND_INFO is not set
CONFIG_FORCED_INLINING=y
# CONFIG_RCU_TORTURE_TEST is not set
# CONFIG_DEBUG_RODATA is not set
# CONFIG_IOMMU_DEBUG is not set

#
# Security options
#
# CONFIG_KEYS is not set
# CONFIG_SECURITY is not set

#
# Cryptographic options
#
CONFIG_CRYPT=y
CONFIG_CRYPT_HMAC=y
CONFIG_CRYPT_NULL=m
CONFIG_CRYPT_MD4=m
CONFIG_CRYPT_MD5=m
CONFIG_CRYPT_SHA1=m
CONFIG_CRYPT_SHA256=m
CONFIG_CRYPT_SHA512=m
CONFIG_CRYPT_WP512=m
CONFIG_CRYPT_TGR192=m
CONFIG_CRYPT_DES=m
CONFIG_CRYPT_BLOWFISH=m
```

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```
CONFIG_CRYPTO_TWOFISH=m
CONFIG_CRYPTO_SERPENT=m
CONFIG_CRYPTO_AES=m
CONFIG_CRYPTO_AES_X86_64=m
CONFIG_CRYPTO_CAST5=m
CONFIG_CRYPTO_CAST6=m
CONFIG_CRYPTO_TEA=m
CONFIG_CRYPTO_ARC4=m
CONFIG_CRYPTO_KHAZAD=m
CONFIG_CRYPTO_ANUBIS=m
CONFIG_CRYPTO_DEFLATE=m
CONFIG_CRYPTO_MICHAEL_MIC=m
CONFIG_CRYPTO_CRC32C=m
# CONFIG_CRYPTO_TEST is not set
```

```
#
# Hardware crypto devices
#
```

```
#
# Library routines
#
CONFIG_CRC_CCITT=y
CONFIG_CRC16=y
CONFIG_CRC32=y
CONFIG_LIBCRC32C=y
CONFIG_ZLIB_INFLATE=m
CONFIG_ZLIB_DEFLATE=m
CONFIG_TEXTSEARCH=y
CONFIG_TEXTSEARCH_KMP=m
CONFIG_TEXTSEARCH_BM=m
CONFIG_TEXTSEARCH_FSM=m
```

```
Bootdata ok (command line is root=/dev/sda3 elevator=cfq)
Linux version 2.6.17-gentoo-r4 (root@dreamgate) (gcc version 4.1.1 (Gentoo
4.1.1)) #1 PREEMPT Fri Jul 28 23:31:21 CEST 2006
BIOS-provided physical RAM map:
BIOS-e820: 0000000000000000 - 000000000009f800 (usable)
BIOS-e820: 000000000009f800 - 00000000000a0000 (reserved)
BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
BIOS-e820: 0000000000100000 - 000000003fff0000 (usable)
BIOS-e820: 000000003fff0000 - 000000003fff3000 (ACPI NVS)
BIOS-e820: 000000003fff3000 - 0000000040000000 (ACPI data)
BIOS-e820: 00000000d0000000 - 00000000e0000000 (reserved)
BIOS-e820: 00000000fec00000 - 0000000100000000 (reserved)
DMI 2.3 present.
ACPI: RSDP (v000 Nvidia ) @ 0x00000000000f6e80
ACPI: RSDT (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x01010101) @
0x000000003fff3000
ACPI: FADT (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x01010101) @
0x000000003fff3040
```

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ACPI: MCFG (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x01010101) @
0x000000003fff7d80
ACPI: MADT (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x01010101) @
0x000000003fff7d00
ACPI: DSDT (v001 NVIDIA AWRDACPI 0x00001000 MSFT 0x0100000c) @
0x0000000000000000
On node 0 totalpages: 257262
DMA zone: 2757 pages, LIFO batch:0
DMA32 zone: 254505 pages, LIFO batch:31
Nvidia board detected. Ignoring ACPI timer override.
ACPI: PM-Timer IO Port: 0x1008
ACPI: Local APIC address 0xfe00000
ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
Processor #0 15:15 APIC version 16
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
ACPI: LAPIC_NMI (acpi_id[0x00] dfl dfl lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x01] dfl dfl lint[0x1])
ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 2, version 17, address 0xfec00000, GSI 0-23
ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
ACPI: BIOS IRQ0 pin2 override ignored.
ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
ACPI: INT_SRC_OVR (bus 0 bus_irq 14 global_irq 14 high edge)
ACPI: INT_SRC_OVR (bus 0 bus_irq 15 global_irq 15 high edge)
ACPI: IRQ9 used by override.
ACPI: IRQ14 used by override.
ACPI: IRQ15 used by override.
Setting APIC routing to flat
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at 50000000 (gap: 40000000:90000000)
Checking aperture...
CPU 0: aperture @ 88a0000000 size 32 MB
Aperture from northbridge cpu 0 too small (32 MB)
No AGP bridge found
Built 1 zonelists
Kernel command line: root=/dev/sda3 elevator=cfq
Initializing CPU#0
PID hash table entries: 4096 (order: 12, 32768 bytes)
time.c: Using 3.579545 MHz WALL PM GTOD PIT/TSC timer.
time.c: Detected 2264.479 MHz processor.
Console: colour VGA+ 80x25
Dentry cache hash table entries: 131072 (order: 8, 1048576 bytes)
Inode-cache hash table entries: 65536 (order: 7, 524288 bytes)
Memory: 1027068k/1048512k available (2304k kernel code, 20680k reserved, 892k
data, 168k init)
Calibrating delay using timer specific routine.. 4531.62 BogoMIPS
(lpj=9063256)
Mount-cache hash table entries: 256
CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)
CPU: L2 Cache: 512K (64 bytes/line)
CPU: AMD Athlon(tm) 64 Processor 3500+ stepping 00

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Using local APIC timer interrupts.
result 12866358
Detected 12.866 MHz APIC timer.
testing NMI watchdog ... OK.
NET: Registered protocol family 16
ACPI: bus type pci registered
PCI: Using MMCONFIG at d0000000
PCI: No mmconfig possible on device 0:18
ACPI: Subsystem revision 20060127
ACPI: Interpreter enabled
ACPI: Using IOAPIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (0000:00)
PCI: Probing PCI hardware (bus 00)
PCI: Transparent bridge - 0000:00:09.0
Boot video device is 0000:05:00.0
ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.HUB0._PRT]
ACPI: PCI Interrupt Link [LNK1] (IRQs 3 4 5 7 9 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNK2] (IRQs 3 4 *5 7 9 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK3] (IRQs 3 4 5 *7 9 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK4] (IRQs 3 *4 5 7 9 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK5] (IRQs 3 4 5 7 9 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LUBA] (IRQs 3 4 5 7 9 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LUBB] (IRQs 3 4 5 7 9 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LMAC] (IRQs 3 4 5 7 9 10 11 *12 14 15)
ACPI: PCI Interrupt Link [LACI] (IRQs *3 4 5 7 9 10 11 12 14 15)
ACPI: PCI Interrupt Link [LMCI] (IRQs 3 4 5 7 9 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LSMB] (IRQs 3 4 5 7 9 10 11 *12 14 15)
ACPI: PCI Interrupt Link [LUB2] (IRQs 3 4 5 7 9 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LIDE] (IRQs 3 4 5 7 9 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LSID] (IRQs 3 4 5 7 9 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LFID] (IRQs 3 4 5 7 9 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LPCA] (IRQs 3 4 5 7 9 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [APC1] (IRQs 16) *0, disabled.
ACPI: PCI Interrupt Link [APC2] (IRQs 17) *0, disabled.
ACPI: PCI Interrupt Link [APC3] (IRQs 18) *0, disabled.
ACPI: PCI Interrupt Link [APC4] (IRQs 19) *0, disabled.
ACPI: PCI Interrupt Link [APC5] (IRQs *16), disabled.
ACPI: PCI Interrupt Link [APCF] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCG] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCH] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCJ] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCK] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCS] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCL] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCZ] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APSI] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APSJ] (IRQs 20 21 22 23) *0, disabled.
ACPI: PCI Interrupt Link [APCP] (IRQs 20 21 22 23) *0, disabled.
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI init

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```
pnp: PnP ACPI: found 9 devices
Generic PHY: Registered new driver
SCSI subsystem initialized
usbcore: registered new driver usbfs
usbcore: registered new driver hub
PCI: Using ACPI for IRQ routing
PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
PCI-DMA: Disabling IOMMU.
pnp: 00:01: ioport range 0x1000-0x107f could not be reserved
pnp: 00:01: ioport range 0x1080-0x10ff has been reserved
pnp: 00:01: ioport range 0x1400-0x147f has been reserved
pnp: 00:01: ioport range 0x1480-0x14ff could not be reserved
pnp: 00:01: ioport range 0x1800-0x187f has been reserved
pnp: 00:01: ioport range 0x1880-0x18ff has been reserved
PCI: Bridge: 0000:00:09.0
IO window: disabled.
MEM window: f2000000-f20fffff
PREFETCH window: disabled.
PCI: Bridge: 0000:00:0b.0
IO window: a000-afff
MEM window: f0000000-f1ffffff
PREFETCH window: 50000000-500fffff
PCI: Bridge: 0000:00:0c.0
IO window: 9000-9fff
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:00:0d.0
IO window: 8000-8fff
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:00:0e.0
IO window: disabled.
MEM window: e8000000-efffffff
PREFETCH window: e0000000-e7ffffff
PCI: Setting latency timer of device 0000:00:09.0 to 64
PCI: Setting latency timer of device 0000:00:0b.0 to 64
PCI: Setting latency timer of device 0000:00:0c.0 to 64
PCI: Setting latency timer of device 0000:00:0d.0 to 64
PCI: Setting latency timer of device 0000:00:0e.0 to 64
NET: Registered protocol family 2
IP route cache hash table entries: 32768 (order: 6, 262144 bytes)
TCP established hash table entries: 131072 (order: 8, 1048576 bytes)
TCP bind hash table entries: 65536 (order: 7, 524288 bytes)
TCP: Hash tables configured (established 131072 bind 65536)
TCP reno registered
IA32 emulation $Id: sys_ia32.c,v 1.32 2002/03/24 13:02:28 ak Exp $
Initializing Cryptographic API
io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered (default)
```

sluggish system responsiveness under higher IO load

```
PCI: Setting latency timer of device 0000:00:0b.0 to 64
pcie_portdrv_probe->Dev[005d:10de] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:0b.0:pcie00]
Allocate Port Service[0000:00:0b.0:pcie03]
PCI: Setting latency timer of device 0000:00:0c.0 to 64
pcie_portdrv_probe->Dev[005d:10de] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:0c.0:pcie00]
Allocate Port Service[0000:00:0c.0:pcie03]
PCI: Setting latency timer of device 0000:00:0d.0 to 64
pcie_portdrv_probe->Dev[005d:10de] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:0d.0:pcie00]
Allocate Port Service[0000:00:0d.0:pcie03]
PCI: Setting latency timer of device 0000:00:0e.0 to 64
pcie_portdrv_probe->Dev[005d:10de] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:0e.0:pcie00]
Allocate Port Service[0000:00:0e.0:pcie03]
Real Time Clock Driver v1.12ac
Linux agpgart interface v0.101 (c) Dave Jones
ACPI: Power Button (FF) [PWRFB]
ACPI: Power Button (CM) [PWRB]
PNP: No PS/2 controller found. Probing ports directly.
serio: i8042 AUX port at 0x60,0x64 irq 12
serio: i8042 KBD port at 0x60,0x64 irq 1
mice: PS/2 mouse device common for all mice
forcedeth.c: Reverse Engineered nForce ethernet driver. Version 0.54.
ACPI: PCI Interrupt Link [APCH] enabled at IRQ 23
GSI 16 sharing vector 0xD9 and IRQ 16
ACPI: PCI Interrupt 0000:00:0a.0[A] -> Link [APCH] -> GSI 23 (level, low) ->
IRQ 217
PCI: Setting latency timer of device 0000:00:0a.0 to 64
forcedeth: using HIGHDMA
eth0: forcedeth.c: subsystem: 01458:e000 bound to 0000:00:0a.0
Linux video capture interface: v1.00
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
NFORCE-CK804: IDE controller at PCI slot 0000:00:06.0
NFORCE-CK804: chipset revision 242
NFORCE-CK804: not 100% native mode: will probe irqs later
NFORCE-CK804: 0000:00:06.0 (rev f2) UDMA133 controller
ide0: BM-DMA at 0xf000-0xf007, BIOS settings: hda:DMA, hdb:DMA
ide1: BM-DMA at 0xf008-0xf00f, BIOS settings: hdc:DMA, hdd:DMA
Probing IDE interface ide0...
hda: AOPEN DVD1648/AAP PRO, ATAPI CD/DVD-ROM drive
hdb: TOSHIBA DVD-ROM SD-M1612, ATAPI CD/DVD-ROM drive
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Probing IDE interface ide1...
hdc: HL-DT-ST DVDROM GSA-4163B, ATAPI CD/DVD-ROM drive
```

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```
ide1 at 0x170–0x177,0x376 on irq 15
hda: ATAPI 48X DVD–ROM drive, 512kB Cache
Uniform CD–ROM driver Revision: 3.20
hdb: ATAPI 48X DVD–ROM drive, 512kB Cache, UDMA(33)
hdc: ATAPI 40X DVD–ROM DVD–R–RAM CD–R/RW drive, 2048kB Cache, UDMA(33)
libata version 1.20 loaded.
sata_nv 0000:00:07.0: version 0.8
ACPI: PCI Interrupt Link [APSI] enabled at IRQ 22
GSI 17 sharing vector 0xE1 and IRQ 17
ACPI: PCI Interrupt 0000:00:07.0[A] -> Link [APSI] -> GSI 22 (level, low) ->
IRQ 225
PCI: Setting latency timer of device 0000:00:07.0 to 64
ata1: SATA max UDMA/133 cmd 0x9F0 ctl 0xBF2 bmdma 0xD000 irq 225
ata2: SATA max UDMA/133 cmd 0x970 ctl 0xB72 bmdma 0xD008 irq 225
ata1: SATA link down (SStatus 0)
scsi0 : sata_nv
ata2: SATA link up 1.5 Gbps (SStatus 113)
ata2: dev 0 cfg 49:2f00 82:346b 83:7f01 84:4003 85:3c69 86:3c01 87:4003
88:40ff
ata2: dev 0 ATA–7, max UDMA7, 312581808 sectors: LBA48
nv_sata: Primary device added
nv_sata: Primary device removed
nv_sata: Secondary device added
nv_sata: Secondary device removed
ata2: dev 0 configured for UDMA/133
scsi1 : sata_nv
Vendor: ATA Model: SAMSUNG SP1614C Rev: SW10
Type: Direct–Access ANSI SCSI revision: 05
ACPI: PCI Interrupt Link [APSJ] enabled at IRQ 21
GSI 18 sharing vector 0xE9 and IRQ 18
ACPI: PCI Interrupt 0000:00:08.0[A] -> Link [APSJ] -> GSI 21 (level, low) ->
IRQ 233
PCI: Setting latency timer of device 0000:00:08.0 to 64
ata3: SATA max UDMA/133 cmd 0x9E0 ctl 0xBE2 bmdma 0xE400 irq 233
ata4: SATA max UDMA/133 cmd 0x960 ctl 0xB62 bmdma 0xE408 irq 233
ata3: SATA link down (SStatus 0)
scsi2 : sata_nv
ata4: SATA link down (SStatus 0)
scsi3 : sata_nv
SCSI device sda: 312581808 512–byte hdwr sectors (160042 MB)
sda: Write Protect is off
sda: Mode Sense: 00 3a 00 00
SCSI device sda: drive cache: write back
SCSI device sda: 312581808 512–byte hdwr sectors (160042 MB)
sda: Write Protect is off
sda: Mode Sense: 00 3a 00 00
SCSI device sda: drive cache: write back
sda: sda1 sda2 sda3
sd 1:0:0:0: Attached scsi disk sda
ACPI: PCI Interrupt Link [APCL] enabled at IRQ 20
GSI 19 sharing vector 0x32 and IRQ 19
```

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```
ACPI: PCI Interrupt 0000:00:02.1[B] -> Link [APCL] -> GSI 20 (level, low) ->
IRQ 50
PCI: Setting latency timer of device 0000:00:02.1 to 64
ehci_hcd 0000:00:02.1: EHCI Host Controller
ehci_hcd 0000:00:02.1: new USB bus registered, assigned bus number 1
ehci_hcd 0000:00:02.1: debug port 1
PCI: cache line size of 64 is not supported by device 0000:00:02.1
ehci_hcd 0000:00:02.1: irq 50, io mem 0xfeb00000
ehci_hcd 0000:00:02.1: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb1: configuration #1 chosen from 1 choice
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 10 ports detected
ohci_hcd: 2005 April 22 USB 1.1 'Open' Host Controller (OHCI) Driver (PCI)
ACPI: PCI Interrupt Link [APCF] enabled at IRQ 23
ACPI: PCI Interrupt 0000:00:02.0[A] -> Link [APCF] -> GSI 23 (level, low) ->
IRQ 217
PCI: Setting latency timer of device 0000:00:02.0 to 64
ohci_hcd 0000:00:02.0: OHCI Host Controller
ohci_hcd 0000:00:02.0: new USB bus registered, assigned bus number 2
ohci_hcd 0000:00:02.0: irq 217, io mem 0xf2101000
usb usb2: configuration #1 chosen from 1 choice
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 10 ports detected
usb 2-9: new low speed USB device using ohci_hcd and address 2
usb 2-9: configuration #1 chosen from 1 choice
usb 2-10: new low speed USB device using ohci_hcd and address 3
usb 2-10: configuration #1 chosen from 1 choice
usbcore: registered new driver hiddev
input: HID 046a:000c as /class/input/input0
input: USB HID v1.00 Mouse [HID 046a:000c] on usb-0000:00:02.0-9
input: HID 046a:0023 as /class/input/input1
input: USB HID v1.11 Keyboard [HID 046a:0023] on usb-0000:00:02.0-10
input: HID 046a:0023 as /class/input/input2
input: USB HID v1.11 Device [HID 046a:0023] on usb-0000:00:02.0-10
usbcore: registered new driver usbhid
drivers/usb/input/hid-core.c: v2.6:USB HID core driver
i2c /dev entries driver
TCP bic registered
Initializing IPsec netlink socket
NET: Registered protocol family 1
NET: Registered protocol family 17
NET: Registered protocol family 15
powernow-k8: Found 1 AMD Athlon 64 / Opteron processors (version 1.60.2)
powernow-k8: 0 : fid 0xe (2200 MHz), vid 0x6 (1400 mV)
powernow-k8: 1 : fid 0xc (2000 MHz), vid 0x8 (1350 mV)
powernow-k8: 2 : fid 0xa (1800 MHz), vid 0xa (1300 mV)
powernow-k8: 3 : fid 0x2 (1000 MHz), vid 0x12 (1100 mV)
cpu_init done, current fid 0xe, vid 0x6
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
VFS: Mounted root (ext3 filesystem) readonly.
```

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```
Freeing unused kernel memory: 168k freed
i2c_adapter i2c-0: nForce2 SMBus adapter at 0x1c00
i2c_adapter i2c-1: nForce2 SMBus adapter at 0x1c40
saa7130/34: v4l2 driver version 0.2.14 loaded
ACPI: PCI Interrupt Link [APC4] enabled at IRQ 19
GSI 20 sharing vector 0x3A and IRQ 20
ACPI: PCI Interrupt 0000:01:07.0[A] -> Link [APC4] -> GSI 19 (level, low) ->
IRQ 58
saa7134[0]: found at 0000:01:07.0, rev: 1, irq: 58, latency: 32, mmio:
0xf2005000
saa7134[0]: subsystem: 153b:1142, board: Terratec Cinergy 400 TV
[card=8,autodetected]
saa7134[0]: board init: gpio is 50000
input: saa7134 IR (Terratec Cinergy 40 as /class/input/input3
saa7134[0]: i2c eeprom 00: 3b 15 42 11 10 28 ff ff ff ff ff ff ff ff ff
saa7134[0]: i2c eeprom 10: ff ff ff ff ff ff ff ff ff ff ff ff ff ff
saa7134[0]: i2c eeprom 20: ff ff ff ff ff ff ff ff ff ff ff ff ff ff
saa7134[0]: i2c eeprom 30: ff ff ff ff ff ff ff ff ff ff ff ff ff ff
saa7134[0]: i2c eeprom 40: ff ff ff ff ff ff ff ff ff ff ff ff ff ff
saa7134[0]: i2c eeprom 50: ff ff ff ff ff ff ff ff ff ff ff ff ff ff
saa7134[0]: i2c eeprom 60: ff ff ff ff ff ff ff ff ff ff ff ff ff ff
saa7134[0]: i2c eeprom 70: ff ff ff ff ff ff ff ff ff ff ff ff ff ff
tuner 2-0060: All bytes are equal. It is not a TEA5767
tuner 2-0060: chip found @ 0xc0 (saa7134[0])
tuner 2-0060: type set to 5 (Philips PAL_BG (FI1216 and compatibles))
saa7134[0]: registered device video0 [v4l2]
saa7134[0]: registered device vbi0
ACPI: PCI Interrupt Link [APCJ] enabled at IRQ 22
ACPI: PCI Interrupt 0000:00:04.0[A] -> Link [APCJ] -> GSI 22 (level, low) ->
IRQ 225
PCI: Setting latency timer of device 0000:00:04.0 to 64
intel8x0_measure_ac97_clock: measured 56462 usecs
intel8x0: clocking to 46997
nvidia: module license 'NVIDIA' taints kernel.
ACPI: PCI Interrupt Link [APC3] enabled at IRQ 18
GSI 21 sharing vector 0x42 and IRQ 21
ACPI: PCI Interrupt 0000:05:00.0[A] -> Link [APC3] -> GSI 18 (level, low) ->
IRQ 66
PCI: Setting latency timer of device 0000:05:00.0 to 64
NVRM: loading NVIDIA Linux x86_64 Kernel Module 1.0-8762 Mon May 15 13:58:14
PDT 2006
EXT3 FS on sda3, internal journal
Adding 987988k swap on /dev/sda2. Priority:-1 extents:1 across:987988k
it87: Found IT8712F chip at 0x290, revision 5
i2c_adapter i2c-3: SMBus Quick command not supported, can't probe for chips
i2c_adapter i2c-4: SMBus Quick command not supported, can't probe for chips
i2c_adapter i2c-5: SMBus Quick command not supported, can't probe for chips
ip_tables: (C) 2000-2006 Netfilter Core Team
Netfilter messages via NETLINK v0.30.
ip_conntrack version 2.4 (4095 buckets, 32760 max) - 304 bytes per conntrack
ClusterIP Version 0.8 loaded successfully
```

sluggish system responsiveness under higher IO load

ipt_recent v0.3.1: Stephen Frost <sfrost@xxxxxxxxxx>.

http://snowman.net/projects/ipt_recent/

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