

# Getting software RAID to work, help!

**Source:** <http://linux.derkeiler.com/Newsgroups/comp.os.linux.setup/2003-11/0517.html>

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We have a Gigabyte Athlon SMP motherboard, which has a Promise ATA Raid on board controller. We have two IDE drives we want to use for RAID-1 (mirrored). I cannot get the Linux native raid in the kernel to work. There is a driver by Promise, for RedHat 7.3. That worked, but this meant using RH7.3, which used kernel 2.4.18. After running happily for four months, it suddenly bumped into an ext3 bug that was in that kernel, crashing the system; that is unacceptable, we'll need to upgrade to a kernel version in which this is fixed.

Which means I'll have to either

- a) Use the Promise driver with the new kernel, or
- b) Get native software RAID to work.

Neither of which I know how to do.

As for option a), the only way I know how to use the binary driver was giving it to the Redhat install program at install time. If someone can describe to me how to fit it into a 2.4.22 I compiled myself, that is probably the easiest, since I know the Promise driver worked. It can't really be loaded as a module after bootup since the RAID drives are the only drives in the system (correct me if I'm wrong).

We also get a scary looking error message at bootup, which we initially ignored since the system worked well. We get it no matter what the configuration, it seems. Perhaps it has something to do with this. The rest of the post is hardware info, and a description of what I tried so far.

The error:

```
AMD7441: IDE controller on PCI bus 00 dev 39
AMD7441: chipset revision 4
AMD7441: not 100% native mode: will probe irqs later
AMD7441: disabling single-word DMA support (revision < C4)
ide0: BM-DMA at 0xf000-0xf007, BIOS settings: hda:prio, hdb:prio
ide1: BM-DMA at 0xf008-0xf00f, BIOS settings: hdc:DMA, hdd:prio
hda: IRQ probe failed (0xffffef8)
hda: IRQ probe failed (0xffffef8)
hda: no response (status = 0x0a), resetting drive
```

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```
hda: IRQ probe failed (0xffffef8)
hda: no response (status = 0x0a)
hdb: IRQ probe failed (0xffffef8)
hdb: IRQ probe failed (0xffffef8)
hdb: no response (status = 0x0a), resetting drive
hdb: IRQ probe failed (0xffffef8)
hdb: no response (status = 0x0a)
```

With some options (trying to use native RAID) it later identifies the drives as /dev/hde and /dev/hdf... I have no idea why it would say that it's not in 100% native mode, I'm not a hardware man :-).

Hardware information:

Gigabyte GA-7DPXDW-P motherboard  
(AMD 762+768 chipset, Promise 20276 ATA-133 RAID controller)  
Dual Athlon 2400 cpus  
Two Samsung 160GB ide hard drives

My tries with kernel 2.4.22:

I tried following the chapter 6 of the Linux ATA RAID HOWTO (Installing Native Linux RAID).

In the list of options I needed to check, "Support for IDE RAID controllers" and "Support Promise Software RAID (fasttrack)", weren't even in make menuconfig. I found them in the .config file and turned them on there.

I turned "Multiple devices support", "RAID support" and "RAID-1" on. It doesn't mention this in the HOWTO, so I don't know if it's necessary, but it sounds logical.

In the IDE options, I use "Include IDE/ATA-2 DISK support", "Use multi-mode by default", "Generic PCI support", "Sharing PCI IDE interrupt support", "Generic PCI bus master support", "AMD and Nvidia IDE support", "PCI DMA by default", "PROMISE 202{46|...}", "Special UDMA feature", "PROMISE 202{68...}" and "Special FastTrak feature".

With the PROMISE options I checked both, even though the chip I actually have is in the second list, because the HOWTO said I needed the special UDMA feature which is only available with the first. I did try doing the second one only, both with and without the special fasttrak feature.

With these settings (which are my best guess, but I've tried many others) I tried to boot using lilo and setting boot=/dev/ataraid/d0p1 and d0p3 (the root partition is the third partition on the drive). These partitions weren't found, so there is a kernel panic, and I don't know what happened exactly. I haven't seen a single message considering specifically ata raid, but md (the normal raid driver, I believe) does not find any raid partitions.

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I would be really grateful if someone could help me since I have really been frustrated by this problem, it's hard to find what the trouble is when you get a kernel panic on boot :-( I can grab all the extra info you may need.

The full .config for 2.4.22 is appended below:

```
#
# 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 is not set

#
# Loadable module support
#
# CONFIG_MODULES is not set

#
# 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=y
# 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 is not set
# 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=6
CONFIG_X86_HAS_TSC=y
CONFIG_X86_GOOD_APIC=y
CONFIG_X86_USE_3DNOW=y
CONFIG_X86_PGE=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_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 is not set
CONFIG_SMP=y
# CONFIG_X86_NUMA is not set
# CONFIG_X86_TSC_DISABLE is not set
CONFIG_X86_TSC=y
CONFIG_HAVE_DEC_LOCK=y
```

```
#
# General setup
#
CONFIG_NET=y
CONFIG_X86_IO_APIC=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_PCI=y
# CONFIG_PCI_GOBIOS is not set
# CONFIG_PCI_GODIRECT is not set
CONFIG_PCI_GOANY=y
CONFIG_PCI_BIOS=y
CONFIG_PCI_DIRECT=y
# CONFIG_ISA is not set
CONFIG_PCI_NAMES=y
# CONFIG_EISA is not set
# CONFIG_MCA is not set
CONFIG_HOTPLUG=y
```

```
#
# PCMCIA/CardBus support
#
# CONFIG_PCMCIA is not set
```

```
#
# PCI Hotplug Support
#
# CONFIG_HOTPLUG_PCI is not set
# CONFIG_HOTPLUG_PCI_COMPAQ is not set
# CONFIG_HOTPLUG_PCI_COMPAQ_NVRAM is not set
# CONFIG_HOTPLUG_PCI_IBM 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=y
CONFIG_BINFMT_ELF=y
CONFIG_BINFMT_MISC=y
CONFIG_PM=y
# 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=y
CONFIG_ISAPNP=y

#
# Block devices
#
CONFIG_BLK_DEV_FD=y
# 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_BLK_DEV_DAC960 is not set
# CONFIG_BLK_DEV_UMEM is not set
CONFIG_BLK_DEV_LOOP=y
```

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```
# CONFIG_BLK_DEV_NBD is not set
# CONFIG_BLK_DEV_RAM is not set
# CONFIG_BLK_DEV_INITRD is not set
CONFIG_BLK_STATS=y

#
# Multi-device support (RAID and LVM)
#
CONFIG_MD=y
CONFIG_BLK_DEV_MD=y
# CONFIG_MD_LINEAR is not set
# CONFIG_MD_RAID0 is not set
CONFIG_MD_RAID1=y
# 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 is not set
# CONFIG_FILTER is not set
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_INET_ECN is not set
CONFIG_SYN_COOKIES=y
# CONFIG_VLAN_8021Q is not set
# 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 is not set

#
# 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=y
# CONFIG_IDEDISK_STROKE is not set
# CONFIG_BLK_DEV_IDECS 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
# 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=y
CONFIG_IDEPCI_SHARE_IRQ=y
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 is not set
# CONFIG_BLK_DEV_ADMA100 is not set
# CONFIG_BLK_DEV_AEC62XX is not set
# CONFIG_BLK_DEV_ALI15X3 is not set
# CONFIG_WDC_ALI15X3 is not set
CONFIG_BLK_DEV_AMD74XX=y
# CONFIG_AMD74XX_OVERRIDE is not set
```

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```
# 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_IDE_MODES=y
# 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_SII is not set

#
# SCSI support
#
CONFIG_SCSI=y
CONFIG_BLK_DEV_SD=y
CONFIG_SD_EXTRA_DEVS=40
# 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_SCSI_DEBUG_QUEUES=y
CONFIG_SCSI_MULTI_LUN=y
CONFIG_SCSI_CONSTANTS=y
# CONFIG_SCSI_LOGGING is not set

#
# SCSI low-level drivers
#
# CONFIG_BLK_DEV_3W_XXXX_RAID is not set
# CONFIG_SCSI_7000FASST is not set
```

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```
# CONFIG_SCSI_ACARD is not set
# CONFIG_SCSI_AHA152X is not set
# CONFIG_SCSI_AHA1542 is not set
# CONFIG_SCSI_AHA1740 is not set
# CONFIG_SCSI_AIC7XXX is not set
# CONFIG_SCSI_AIC79XX is not set
# CONFIG_SCSI_AIC7XXX_OLD is not set
# CONFIG_SCSI_DPT_I2O is not set
# CONFIG_SCSI_ADVANSYS is not set
# CONFIG_SCSI_IN2000 is not set
# CONFIG_SCSI_AM53C974 is not set
# CONFIG_SCSI_MEGARAID is not set
# CONFIG_SCSI_BUSLOGIC is not set
# CONFIG_SCSI_CPQFCTS is not set
# CONFIG_SCSI_DMX3191D is not set
# CONFIG_SCSI_DTC3280 is not set
# CONFIG_SCSI_EATA is not set
# CONFIG_SCSI_EATA_DMA is not set
# CONFIG_SCSI_EATA_PIO is not set
# CONFIG_SCSI_FUTURE_DOMAIN is not set
# CONFIG_SCSI_GDTH is not set
# CONFIG_SCSI_GENERIC_NCR5380 is not set
# CONFIG_SCSI_IPS is not set
# CONFIG_SCSI_INITIO is not set
# CONFIG_SCSI_INIA100 is not set
# CONFIG_SCSI_NCR53C406A is not set
# CONFIG_SCSI_NCR53C7xx is not set
# CONFIG_SCSI_SYM53C8XX_2 is not set
# CONFIG_SCSI_NCR53C8XX is not set
CONFIG_SCSI_SYM53C8XX=y
CONFIG_SCSI_NCR53C8XX_DEFAULT_TAGS=4
CONFIG_SCSI_NCR53C8XX_MAX_TAGS=32
CONFIG_SCSI_NCR53C8XX_SYNC=20
# CONFIG_SCSI_NCR53C8XX_PROFILE is not set
# CONFIG_SCSI_NCR53C8XX_IOMAPPED is not set
# CONFIG_SCSI_NCR53C8XX_PQS_PDS is not set
# CONFIG_SCSI_PAS16 is not set
# CONFIG_SCSI_PCI2000 is not set
# CONFIG_SCSI_PCI2220I is not set
# CONFIG_SCSI_PSI240I is not set
# CONFIG_SCSI_QLOGIC_FAS is not set
# CONFIG_SCSI_QLOGIC_ISP is not set
# CONFIG_SCSI_QLOGIC_FC is not set
# CONFIG_SCSI_QLOGIC_1280 is not set
# CONFIG_SCSI_SEAGATE is not set
# CONFIG_SCSI_SIM710 is not set
# CONFIG_SCSI_SYM53C416 is not set
# CONFIG_SCSI_DC390T is not set
# CONFIG_SCSI_T128 is not set
# CONFIG_SCSI_U14_34F is not set
# CONFIG_SCSI_ULTRASTOR is not set
```

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```
# CONFIG_SCSI_NSP32 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

#
# 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_NET_SB1000 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_HP100 is not set
# CONFIG_NET_ISA 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_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=y
# CONFIG_LNE390 is not set
# CONFIG_FEALNX is not set
# CONFIG_NATSEMI is not set
# CONFIG_NE2K_PCI is not set
# CONFIG_NE3210 is not set
# CONFIG_ES3210 is not set
# CONFIG_8139CP is not set
# CONFIG_8139TOO is not set
# 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 is not set
# 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_PLIP is not set
```

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```
# CONFIG_PPP is not set
# 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

#
# 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

#
# Input core support
#
CONFIG_INPUT=y
CONFIG_INPUT_KEYBDEV=y
# CONFIG_INPUT_MOUSEDEV is not set
# CONFIG_INPUT_JOYDEV is not set
CONFIG_INPUT_EVDEV=y

#
# Character devices
#
CONFIG_VT=y
CONFIG_VT_CONSOLE=y
CONFIG_SERIAL=y
CONFIG_SERIAL_CONSOLE=y
# CONFIG_SERIAL_EXTENDED is not set
```

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```
# 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
# 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
```

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```
# 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_GPIO is not set
CONFIG_AMD_RNG=y
# CONFIG_INTEL_RNG is not set
CONFIG_AMD_PM768=y
# CONFIG_NVRAM is not set
# CONFIG_RTC is not set
# 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_INTEL=y
CONFIG_AGP_I810=y
CONFIG_AGP_VIA=y
CONFIG_AGP_AMD=y
# CONFIG_AGP_AMD_8151 is not set
CONFIG_AGP_SIS=y
CONFIG_AGP_ALI=y
# CONFIG_AGP_SWORKS is not set
# CONFIG_AGP_NVIDIA is not set
CONFIG_DRM=y
# CONFIG_DRM_OLD is not set
CONFIG_DRM_NEW=y
CONFIG_DRM_TDFX=y
# CONFIG_DRM_R128 is not set
CONFIG_DRM_RADEON=y
CONFIG_DRM_I810=y
CONFIG_DRM_I810_XFREE_41=y
# CONFIG_DRM_I830 is not set
# CONFIG_DRM_MGA is not set
# CONFIG_DRM_SIS is not set
# CONFIG_MWAVE is not set
```

```
#
# Multimedia devices
#
# CONFIG_VIDEO_DEV is not set
```

```
#
# File systems
#
CONFIG_QUOTA=y
# CONFIG_QFMT_V2 is not set
# CONFIG_AUTOFS_FS is not set
CONFIG_AUTOFS4_FS=y
CONFIG_REISERFS_FS=y
# CONFIG_REISERFS_CHECK is not set
CONFIG_REISERFS_PROC_INFO=y
# 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=y
CONFIG_JBD=y
CONFIG_JBD_DEBUG=y
CONFIG_FAT_FS=y
CONFIG_MSDOS_FS=y
# CONFIG_UMSDOS_FS is not set
CONFIG_VFAT_FS=y
# 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=y
CONFIG_JOLIET=y
# CONFIG_ZISOFS is not set
CONFIG_JFS_FS=y
# CONFIG_JFS_DEBUG is not set
CONFIG_JFS_STATISTICS=y
# 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

#
# Network File Systems
#
# CONFIG_CODA_FS is not set
# CONFIG_INTERMEZZO_FS is not set
# CONFIG_NFS_FS is not set
# CONFIG_NFS_V3 is not set
# 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 is not set
# CONFIG_LOCKD is not set
CONFIG_SMB_FS=y
CONFIG_SMB_NLS_DEFAULT=y
CONFIG_SMB_NLS_REMOTE="cp437"
# 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
# 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 is not set
# 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
```

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```
# 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 is not set
# 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 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=y
# CONFIG_VIDEO_SELECT is not set

#
# Sound
#
# CONFIG_SOUND is not set

#
# USB support
#
CONFIG_USB=y
# CONFIG_USB_DEBUG is not set
# CONFIG_USB_DEVICEFS is not set
# CONFIG_USB_BANDWIDTH is not set
```

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```
# CONFIG_USB_EHCI_HCD is not set
CONFIG_USB_UHCI_ALT=y
# CONFIG_USB_OHCI is not set
# CONFIG_USB_AUDIO is not set
# CONFIG_USB_EMI26 is not set
# CONFIG_USB_MIDI is not set
CONFIG_USB_STORAGE=y
# 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_JUMPSHOT is not set
# CONFIG_USB_ACM is not set
# CONFIG_USB_PRINTER is not set
# CONFIG_USB_HID is not set
# CONFIG_USB_HIDINPUT is not set
# CONFIG_USB_HIDDEV is not set
# CONFIG_USB_KBD is not set
# CONFIG_USB_MOUSE 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_AX8817X 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
```

```
#  
# 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=y  
# CONFIG_DEBUG_SPINLOCK is not set  
CONFIG_FRAME_POINTER=y  
  
#  
# 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
```