Subject: *SOLVED* VE: 102: failed to start with err=-17
Posted by yettyn on Thu, 10 Jan 2008 09:52:45 GMT
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What does err=-17 mean?

I can only start 1 VE, when I try to start further ones I get this error in dmesg together with some other output.
VE: 101: started
kobject_add failed for net with -EEXIST, don't try to register things with the same name in the same directory.
[<c0530b03>] kobject_shadow_add+0x113/0x1a0
[<c0530c71>] kobject_register+0x21/0x50
[<c0530e22>] kobject_kset_add_dir+0x52/0xa0
[<c05aac35>] device_add+0x75/0x4e0
[<c053076f>] kobject_get+0xf/0x20
[<c0603924>] register_netdevice+0x204/0x4b0
[<c0605279>] register_netdev+0x49/0x70
[<f8e8ba58>] real_env_create+0x918/0xb50 [vzmon]
[<f8e8c12d>] vzcalls_ioctl+0x49d/0x4d0 [vzmon]
[<f894517b>] vzctl_ioctl+0x5b/0x60 [vzdev]
[<f8e8bc90>] vzcalls_ioctl+0x0/0x4d0 [vzmon]
[<f8945120>] vzctl_ioctl+0x0/0x60 [vzdev]
[<c04877db>] do_ioctl+0x2b/0xc0
[<c0673be7>] do_page_fault+0x1d7/0x5d0
[<c0487a9e>] vfs_ioctl+0x22e/0x2b0
[<c0487b5d>] sys_ioctl+0x3d/0x70
[<c04041ca>] syscall_call+0x7/0xb
[<c0670000>] schedule+0x920/0x1180
=======================
kobject_kset_add_dir: kobject_register error: -17
kobject_add failed for lo with -EEXIST, don't try to register things with the same name in the same directory.
[<c0530b03>] kobject_shadow_add+0x113/0x1a0
[<c0530d47>] kobject_set_name+0x37/0xc0
[<c05aac70>] device_add+0xb0/0x4e0
[<c053076f>] kobject_get+0xf/0x20
[<c0603924>] register_netdevice+0x204/0x4b0
[<c0605279>] register_netdev+0x49/0x70
[<f8e8ba58>] real_env_create+0x918/0xb50 [vzmon]
[<f8e8c12d>] vzcalls_ioctl+0x49d/0x4d0 [vzmon]
[<f894517b>] vzctl_ioctl+0x5b/0x60 [vzdev]
[<f8e8bc90>] vzcalls_ioctl+0x0/0x4d0 [vzmon]
[<f8945120>] vzctl_ioctl+0x0/0x60 [vzdev]
[<c04877db>] do_ioctl+0x2b/0xc0
[<c0673be7>] do_page_fault+0x1d7/0x5d0
[<c0487a9e>] vfs_ioctl+0x22e/0x2b0
[<c0487b5d>] sys_ioctl+0x3d/0x70

[<c04041ca>] syscall_call+0x7/0xb
[<c0670000>] schedule+0x920/0x1180
=======================
VE: 102: failed to start with err=-17

and in vzctl.log
2008-01-10T10:36:14+0100 vzctl : Setting CPU units: 20000
2008-01-10T10:36:14+0100 vzctl : WARNING: Settings were not saved and will be resetted to original values on next start (use --save flag)
2008-01-10T10:36:14+0100 vzctl : VE 101 : Starting VE ...
2008-01-10T10:36:14+0100 vzctl : VE 101 : Mounting root: /vz/root/101 /vz/private/101
2008-01-10T10:36:14+0100 vzctl : VE 101 : VE is mounted
2008-01-10T10:36:14+0100 vzctl : VE 101 : Adding IP address(es): 192.168.0.101
2008-01-10T10:36:14+0100 vzctl : VE 101 : Running: /usr/lib/vzctl/scripts/vps-net_add
2008-01-10T10:36:14+0100 vzctl : VE 101 : Running VE script: /etc/vz/dists/scripts/gentoo-add_ip.sh
2008-01-10T10:36:14+0100 vzctl : VE 101 : Setting CPU units: 12705
2008-01-10T10:36:14+0100 vzctl : VE 101 : Configure meminfo: 298782
2008-01-10T10:36:14+0100 vzctl : VE 101 : Set hostname: ns.astrocalc.net
2008-01-10T10:36:14+0100 vzctl : VE 101 : Running VE script: /etc/vz/dists/scripts/gentoo-set_hostname.sh
2008-01-10T10:36:14+0100 vzctl : VE 101 : Running VE script: /etc/vz/dists/scripts/set_dns.sh
2008-01-10T10:36:14+0100 vzctl : VE 101 : File resolv.conf was modified
2008-01-10T10:36:14+0100 vzctl : VE 101 : VE start in progress...
2008-01-10T10:36:49+0100 vzctl : VE 102 : Starting VE ...
2008-01-10T10:36:49+0100 vzctl : VE 102 : Mounting root: /vz/root/102 /vz/private/102
2008-01-10T10:36:49+0100 vzctl : VE 102 : VE is mounted
2008-01-10T10:36:49+0100 vzctl : VE 102 : VE start failed
2008-01-10T10:36:49+0100 vzctl : VE 102 : Running: /usr/sbin/vzquota stat 102 -f
2008-01-10T10:36:49+0100 vzctl : VE 102 : VE is unmounted
2008-01-10T10:40:01+0100 venetclean : VE 102 : VE died, clear IPs:

I have tried so set DISK_QUOTA=no to no avail.

/Joakim

Subject: Re: VE: 102: failed to start with err=-17
Posted by vaverin on Fri, 11 Jan 2008 07:13:36 GMT
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include/asm-generic/errno-base.h
...
#define EEXIST 17 /* File exists */

As far as I see VE cannot register some network device. Do you want to use some additional network device inside VE?

If you do not tried to add something unusual -- please tell us what the kernel you use.

thank you,
Vasily Averin

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Fri, 11 Jan 2008 09:29:28 GMT
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As far as I am aware no extra network device is used/added, and I have the same setup working on another box with much less/older hw spec. I am using kernel 2.6.22-005.1 on gentoo, and I have come to understand now that kernel has no future - but using 2.6.18-stable is not really an option due to HW complications.

The problem I had on 2.6.18 is with recognition of my SATA disks as sda, I can just make them be seen as hda and running at 33Mhz bus speed - which is not acceptable. I will give 2.6.22 some more investigation on the network part, maybe there is something not so obvious that I don't see. Also a diff to the working test box apart from HW is this one is running a Shorewall 4.0.7 firewall so there might be something there as well?

If not anything else work I would have to try getting a 2.6.24 kernel running from git. I can't find any patches there to apply on vanilla rc, just prepatched source tree I think, is this correct?

/Joakim

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Fri, 11 Jan 2008 11:26:42 GMT
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I did some changes to the nnn.conf files, basically copying over values that worked with the test box and now got a bit more info in dmesg. I think I got a kernel panic now as I am connected remotely and have 2 shh terminals opened. In the one I started VE's, there I got VE101 ok and then for VE102
Starting VE ...
VE is mounted
Adding IP address(es): 192.168.0.102

and there it stops and the console hangs. Now my 2nd console still works though, however I cannot open a new connection to server with shh.

The functinal console show this with dmesg
VE: 101: started
BUG: unable to handle kernel NULL pointer dereference at virtual address 00000228
 printing eip:

c06711e0
*pde = 00000000
Oops: 0002 [#1]
SMP
Modules linked in: vznetdev vzmon iptable_raw xt_comment xt_policy ipt_TTL ipt_ttl ipt_TOS ipt_tos ipt_SAME ipt_REJECT ipt_REDIRECT ipt_recent ipt_owner ipt_NETMAP ipt_MASQUERADE ipt_LOG ipt_iprange ipt_ECN ipt_ecn ipt_CLUSTERIP ipt_ah ipt_addrtype nf_nat_tftp nf_nat_snmp_basic nf_nat_sip nf_nat_pptp nf_nat_proto_gre nf_nat_irc nf_nat_h323 nf_nat_ftp nf_nat_amanda ts_kmp nf_conntrack_amanda nf_conntrack_tftp nf_conntrack_sip nf_conntrack_proto_sctp nf_conntrack_pptp nf_conntrack_proto_gre nf_conntrack_netlink nf_conntrack_netbios_ns nf_conntrack_irc nf_conntrack_h323 nf_conntrack_ftp xt_tcpmss xt_pkttype xt_physdev xt_NFQUEUE xt_NFLOG xt_multiport xt_MARK xt_mark xt_mac xt_limit xt_length xt_helper xt_hashlimit xt_dccp xt_conntrack xt_CONNMARK xt_connmark xt_CLASSIFY xt_tcpudp xt_state iptable_nat nf_nat nf_conntrack_ipv4 nf_conntrack iptable_mangle nfnetlink iptable_filter ip_tables simfs vzdquota vzdev ipt_ULOG x_tables i2c_i801 i2c_core sr_mod r8169 cdrom pcspkr floppy
CPU: 0 VCPU: 102.0
EIP: 0060:[<c06711e0>]   Not tainted VLI
EFLAGS: 00010206   (2.6.22-ovz005 #10)
EIP is at mutex_lock+0x0/0x10
eax: 00000228   ebx: ce6b3980   ecx: ce6b3984   edx: c049e050
esi: ce6b3980   edi: d6dbb274   ebp: c049e050   esp: ce967dbc
ds: 007b   es: 007b   fs: 00d8 gs: 0033 ss: 0068
Process vzctl (pid: 23959, veid: 0, ti=ce966000 task=ce962000 task.ti=ce966000)
Stack: c04c05d6 00000000 00000000 ce6b3984 ce6b3980 ce6b3980 d6dbb274 00000000
       c04c09bd ce967de4 00000000 00000000 c0530a83 c06cf0e1 ce6b3984 ce6b3984
       ce967e2c c2304300 ce6b3980 ffffffea d6dbb274 c06cf0de c0530c71 ce6b3980
 Call Trace:
 [<c04c05d6>] create_dir+0x26/0x1b0
 [<c04c09bd>] sysfs_create_dir+0x3d/0x90
 [<c0530a83>] kobject_shadow_add+0x93/0x1a0
 [<c0530c71>] kobject_register+0x21/0x50
 [<c0530e22>] kobject_kset_add_dir+0x52/0xa0
 [<c05aac35>] device_add+0x75/0x4e0
 [<c0441703>] ub_slab_charge+0x53/0x80
 [<c053076f>] kobject_get+0xf/0x20
 [<c0603924>] register_netdevice+0x204/0x4b0
 [<c0605279>] register_netdev+0x49/0x70
 [<f8fd4a58>] real_env_create+0x918/0xb50 [vzmon]
 [<f8fd512d>] vzcalls_ioctl+0x49d/0x4d0 [vzmon]
 [<f897117b>] vzctl_ioctl+0x5b/0x60 [vzdev]
 [<f8fd4c90>] vzcalls_ioctl+0x0/0x4d0 [vzmon]
 [<f8971120>] vzctl_ioctl+0x0/0x60 [vzdev]
 [<c04877db>] do_ioctl+0x2b/0xc0
 [<c0673be7>] do_page_fault+0x1d7/0x5d0
 [<c0487a9e>] vfs_ioctl+0x22e/0x2b0
 [<c0487b5d>] sys_ioctl+0x3d/0x70
 [<c04041ca>] syscall_call+0x7/0xb

[<c0670000>] schedule+0x920/0x1180
=======================
Code: f9 c7 44 24 0c 00 00 00 00 c7 44 24 14 a0 73 43 c0 e8 35 ff ff ff 8b 5c 24 20 8b 74 24 24 8b 7c 24 28 83 c4 2c c3 00 00 00 00 00 <f0> ff 08 79 05 e8 36 01 00 00 c3 90 8d 74 26 00 f0 ff 00 7f 05
EIP: [<c06711e0>] mutex_lock+0x0/0x10 SS:ESP 0068:ce967dbc

I had this situation yesterday as well, although I didn't check dmesg but used the functional console to reboot computer. However boot down hanged and I had to visit my ISP, which luckily is onlo 150 meters away and reboot manually twice before I got it up again. It turned out it hang on firewall when boot down, and then on reset there were a lock firewall couldn't handle and I had to boot backup kernel once before I could boot openvz kernel again.

I know there is nothing further to do fixing 2.6.22, but if the above possibly give some info on what I can do to get around it I would be gratful. I am not a C programmer although I understand to read some C code, but knows very little about kernel programing and less about asm. I understand the above as therer is some conflict and that it possibly have to do with SMP and my intel core 2 duo E6750 CPU. Possibly this can be fixed by reconfig the kernel although I am not happy if I have to leave one of my cores out of duty.

Now I think I have to pay my ISP another visit as well

EDIT:
I thought tis info may be useful as well
merc ~ # ps axl | grep D
F UID PID PPID PRI NI VSZ RSS WCHAN STAT TTY TIME COMMAND
4 0 23955 15014 21 0 1788 772 rwsem_ D+ pts/1 0:00 vzctl start 102
0 0 23964 2828 18 0 7108 1776 - D ? 0:00 smtpd -n smtp -t inet -u -o cleanup_service_name pre-cleanup
4 0 23992 2587 20 0 3984 1216 - Ds ? 0:00 /usr/sbin/sshd -R
0 0 24777 21934 25 0 1644 504 - D ? 0:00 /sbin/ifconfig -a
0 0 24888 5551 18 0 1768 608 pipe_w S+ pts/0 0:00 grep --colour=auto D

Subject: Re: VE: 102: failed to start with err=-17
Posted by vaverin on Fri, 11 Jan 2008 13:49:00 GMT
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Unfortunately our 2.6.20/22/24 kernels are not stable now.
I would recommend you to check rhel5-based 2.6.18 kernel. IMHO last ones use libata drivers and have sd-like devices.
Also you can try to use debian-based kernels provided by Thorsten Schifferdecker aka crux@ http://debian.systs.org/debian

thank you,
Vasily Averin

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Fri, 11 Jan 2008 14:07:07 GMT
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you think any of these will run on Gentoo?

I have tried again with the Gentoo stable 2.6.18 kernel but I cannot make it deal with my sata.

As for 2.6.24 I am prepared to test it, even if it's unstable, in case I cannot get 2.6.22 to work. I am trying now with some alter in kernel config, noticed some diffs commpared to my test box where 2.6.22 seem to work. Proplem for me now is I need to take decision in less then 2 hours as I then can't get on place access untill monday in case it hangs, and with testing it's fair chance it does so... If my new compile doesn't work I probably will take home the server for further work although it mean an approx 48h downtime.

I simply must have this working.

/Joakim

Subject: Re: VE: 102: failed to start with err=-17
Posted by curx on Fri, 11 Jan 2008 15:23:24 GMT
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Hi Joakim,

please provide more info about:

* which kind of controller is used (output from lspci or lshw)
* used kernel config, and is this kernel from git.openvz.org or from a openvz-enabled g2 kernel-source ?

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Fri, 11 Jan 2008 17:13:20 GMT
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curx wrote on Fri, 11 January 2008 16:23Hi Joakim,

please provide more info about:

* which kind of controller is used (output from lspci or lshw)
* used kernel config, and is this kernel from git.openvz.org or from a openvz-enabled g2 kernel-source ?

Hi curx,

thanks for jumping in, here is the info.

merc ~ # lspci
00:00.0 Host bridge: Intel Corporation DRAM Controller (rev 02)
00:02.0 VGA compatible controller: Intel Corporation Integrated Graphics Controller (rev 02)
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev e1)
00:1f.0 ISA bridge: Intel Corporation 82801GB/GR (ICH7 Family) LPC Interface Bridge (rev 01)
00:1f.2 IDE interface: Intel Corporation 82801GB/GR/GH (ICH7 Family) SATA IDE Controller (rev 01)
00:1f.3 SMBus: Intel Corporation 82801G (ICH7 Family) SMBus Controller (rev 01)
01:05.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8110SC/8169SC Gigabit Ethernet (rev 10)

source for the kernel is vanilla-2.6.22 patched with patch-ovz005.1-combined.gz from ovz ftp, I also used the .config file from openvz instead of the gentoo supplied one. Reconfigured for my CPU and removed some things I am pretty use I don't use. There is of course a chance I accidently removed something needed. Here is my kernel config
merc linux # cat /usr/src/linux/.config
#
Automatically generated make config: don't edit
Linux kernel version: 2.6.22-ovz005
Fri Jan 11 17:57:30 2008
#
CONFIG_X86_32=y
CONFIG_GENERIC_TIME=y
CONFIG_CLOCKSOURCE_WATCHDOG=y
CONFIG_GENERIC_CLOCKEVENTS=y
CONFIG_GENERIC_CLOCKEVENTS_BROADCAST=y
CONFIG_LOCKDEP_SUPPORT=y
CONFIG_STACKTRACE_SUPPORT=y
CONFIG_SEMAPHORE_SLEEPERS=y
CONFIG_X86=y
CONFIG_MMU=y
CONFIG_ZONE_DMA=y
CONFIG_QUICKLIST=y
CONFIG_GENERIC_ISA_DMA=y
CONFIG_GENERIC_IOMAP=y
CONFIG_GENERIC_BUG=y
CONFIG_GENERIC_HWEIGHT=y
CONFIG_ARCH_MAY_HAVE_PC_FDC=y
CONFIG_DMI=y
CONFIG_DEFCONFIG_LIST="/lib/modules/$UNAME_RELEASE/.config"

#
Code maturity level options

```
#
CONFIG_EXPERIMENTAL=y
CONFIG_LOCK_KERNEL=y
CONFIG_INIT_ENV_ARG_LIMIT=32

#
# General setup
#
CONFIG_LOCALVERSION=""
CONFIG_LOCALVERSION_AUTO=y
CONFIG_SWAP=y
CONFIG_SYSVIPC=y
CONFIG_IPC_NS=y
CONFIG_SYSVIPC_SYSCTL=y
CONFIG_POSIX_MQUEUE=y
# CONFIG_BSD_PROCESS_ACCT is not set
# CONFIG_TASKSTATS is not set
CONFIG_UTS_NS=y
CONFIG_USER_NS=y
# CONFIG_AUDIT is not set
CONFIG_IKCONFIG=y
CONFIG_IKCONFIG_PROC=y
CONFIG_LOG_BUF_SHIFT=17
# CONFIG_CPUSETS is not set
# CONFIG_SYSFS_DEPRECATED is not set
CONFIG_RELAY=y
CONFIG_BLK_DEV_INITRD=y
CONFIG_INITRAMFS_SOURCE=""
# CONFIG_CC_OPTIMIZE_FOR_SIZE is not set
CONFIG_SYSCTL=y
# CONFIG_EMBEDDED is not set
CONFIG_UID16=y
CONFIG_SYSCTL_SYSCALL=y
CONFIG_KALLSYMS=y
CONFIG_KALLSYMS_EXTRA_PASS=y
CONFIG_HOTPLUG=y
CONFIG_PRINTK=y
CONFIG_BUG=y
CONFIG_ELF_CORE=y
CONFIG_BASE_FULL=y
CONFIG_FUTEX=y
CONFIG_ANON_INODES=y
CONFIG_EPOLL=y
CONFIG_SIGNALFD=y
CONFIG_EVENTFD=y
CONFIG_SHMEM=y
CONFIG_VM_EVENT_COUNTERS=y
CONFIG_SLUB_DEBUG=y
```

```
# CONFIG_SLAB is not set
CONFIG_SLUB=y
# CONFIG_SLOB is not set
CONFIG_RT_MUTEXES=y
# CONFIG_TINY_SHMEM is not set
CONFIG_BASE_SMALL=0

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

#
# Block layer
#
CONFIG_BLOCK=y
# CONFIG_LBD is not set
CONFIG_BLK_DEV_IO_TRACE=y
# 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_TICK_ONESHOT=y
CONFIG_NO_HZ=y
CONFIG_HIGH_RES_TIMERS=y
CONFIG_SMP=y
# CONFIG_X86_PC is not set
# CONFIG_X86_ELAN is not set
```

```
# CONFIG_X86_VOYAGER is not set
# CONFIG_X86_NUMAQ is not set
# CONFIG_X86_SUMMIT is not set
# CONFIG_X86_BIGSMP is not set
# CONFIG_X86_VISWS is not set
CONFIG_X86_GENERICARCH=y
# CONFIG_X86_ES7000 is not set
# CONFIG_PARAVIRT is not set
CONFIG_X86_CYCLONE_TIMER=y
# 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_MPENTIUMII is not set
# CONFIG_MPENTIUMIII is not set
# CONFIG_MPENTIUMM is not set
CONFIG_MCORE2=y
# CONFIG_MPENTIUM4 is not set
# CONFIG_MK6 is not set
# CONFIG_MK7 is not set
# CONFIG_MK8 is not set
# CONFIG_MCRUSOE is not set
# CONFIG_MEFFICEON is not set
# CONFIG_MWINCHIPC6 is not set
# CONFIG_MWINCHIP2 is not set
# CONFIG_MWINCHIP3D is not set
# CONFIG_MGEODEGX1 is not set
# CONFIG_MGEODE_LX is not set
# CONFIG_MCYRIXIII is not set
# CONFIG_MVIAC3_2 is not set
# CONFIG_MVIAC7 is not set
CONFIG_X86_GENERIC=y
CONFIG_X86_CMPXCHG=y
CONFIG_X86_L1_CACHE_SHIFT=7
CONFIG_X86_XADD=y
CONFIG_RWSEM_XCHGADD_ALGORITHM=y
# CONFIG_ARCH_HAS_ILOG2_U32 is not set
# CONFIG_ARCH_HAS_ILOG2_U64 is not set
CONFIG_GENERIC_CALIBRATE_DELAY=y
CONFIG_X86_WP_WORKS_OK=y
CONFIG_X86_INVLPG=y
CONFIG_X86_BSWAP=y
CONFIG_X86_POPAD_OK=y
CONFIG_X86_GOOD_APIC=y
CONFIG_X86_INTEL_USERCOPY=y
CONFIG_X86_USE_PPRO_CHECKSUM=y
```

```
CONFIG_X86_TSC=y
CONFIG_X86_MINIMUM_CPU_MODEL=4
CONFIG_HPET_TIMER=y
CONFIG_HPET_EMULATE_RTC=y
CONFIG_NR_CPUS=8
CONFIG_SCHED_VCPU=y
CONFIG_FAIRSCHED=y
# CONFIG_SCHED_SMT is not set
CONFIG_SCHED_MC=y
CONFIG_PREEMPT_NONE=y
# CONFIG_PREEMPT_VOLUNTARY is not set
# CONFIG_PREEMPT is not set
CONFIG_PREEMPT_BKL=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_X86_IO_APIC=y
CONFIG_NMI_WATCHDOG=y
CONFIG_X86_MCE=y
# CONFIG_X86_MCE_NONFATAL is not set
# CONFIG_X86_MCE_P4THERMAL is not set
CONFIG_VM86=y
# CONFIG_TOSHIBA is not set
# CONFIG_I8K is not set
# CONFIG_X86_REBOOTFIXUPS is not set
CONFIG_MICROCODE=m
CONFIG_MICROCODE_OLD_INTERFACE=y
CONFIG_X86_MSR=m
CONFIG_X86_CPUID=m

#
# Firmware Drivers
#
CONFIG_EDD=m
CONFIG_DELL_RBU=m
CONFIG_DCDBAS=m
# CONFIG_NOHIGHMEM is not set
CONFIG_HIGHMEM4G=y
# CONFIG_HIGHMEM64G is not set
CONFIG_PAGE_OFFSET=0xC0000000
CONFIG_HIGHMEM=y
CONFIG_ARCH_POPULATES_NODE_MAP=y
CONFIG_SELECT_MEMORY_MODEL=y
CONFIG_FLATMEM_MANUAL=y
# CONFIG_DISCONTIGMEM_MANUAL is not set
# CONFIG_SPARSEMEM_MANUAL is not set
CONFIG_FLATMEM=y
CONFIG_FLAT_NODE_MEM_MAP=y
# CONFIG_SPARSEMEM_STATIC is not set
CONFIG_SPLIT_PTLOCK_CPUS=4
```

```
CONFIG_RESOURCES_64BIT=y
CONFIG_ZONE_DMA_FLAG=1
CONFIG_NR_QUICK=1
CONFIG_HIGHPTE=y
# CONFIG_MATH_EMULATION is not set
CONFIG_MTRR=y
# CONFIG_EFI is not set
CONFIG_IRQBALANCE=y
# CONFIG_SECCOMP is not set
# CONFIG_HZ_100 is not set
# CONFIG_HZ_250 is not set
CONFIG_HZ_300=y
# CONFIG_HZ_1000 is not set
CONFIG_HZ=300
CONFIG_KEXEC=y
CONFIG_CRASH_DUMP=y
CONFIG_PHYSICAL_START=0x100000
CONFIG_RELOCATABLE=y
CONFIG_PHYSICAL_ALIGN=0x400000
# CONFIG_COMPAT_VDSO is not set
CONFIG_ARCH_ENABLE_MEMORY_HOTPLUG=y

#
# Power management options (ACPI, APM)
#
CONFIG_PM=y
# CONFIG_PM_LEGACY is not set
# CONFIG_PM_DEBUG is not set
# CONFIG_PM_SYSFS_DEPRECATED is not set
# CONFIG_SOFTWARE_SUSPEND is not set

#
# ACPI (Advanced Configuration and Power Interface) Support
#
CONFIG_ACPI=y
# CONFIG_ACPI_PROCFS 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_FAN=y
# CONFIG_ACPI_DOCK is not set
CONFIG_ACPI_PROCESSOR=y
CONFIG_ACPI_THERMAL=y
# CONFIG_ACPI_ASUS 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_SBS is not set
# CONFIG_APM 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=m
CONFIG_CPU_FREQ_STAT_DETAILS=y
# CONFIG_CPU_FREQ_DEFAULT_GOV_PERFORMANCE is not set
CONFIG_CPU_FREQ_DEFAULT_GOV_USERSPACE=y
CONFIG_CPU_FREQ_GOV_PERFORMANCE=y
CONFIG_CPU_FREQ_GOV_POWERSAVE=m
CONFIG_CPU_FREQ_GOV_USERSPACE=y
CONFIG_CPU_FREQ_GOV_ONDEMAND=m
CONFIG_CPU_FREQ_GOV_CONSERVATIVE=m

#
# CPUFreq processor drivers
#
CONFIG_X86_ACPI_CPUFREQ=y
# CONFIG_X86_POWERNOW_K6 is not set
# CONFIG_X86_POWERNOW_K7 is not set
# CONFIG_X86_POWERNOW_K8 is not set
# CONFIG_X86_GX_SUSPMOD is not set
# CONFIG_X86_SPEEDSTEP_CENTRINO is not set
# CONFIG_X86_SPEEDSTEP_ICH is not set
# CONFIG_X86_SPEEDSTEP_SMI is not set
CONFIG_X86_P4_CLOCKMOD=m
# CONFIG_X86_CPUFREQ_NFORCE2 is not set
# CONFIG_X86_LONGRUN is not set
# CONFIG_X86_LONGHAUL is not set
# CONFIG_X86_E_POWERSAVER is not set

#
# shared options
#
# CONFIG_X86_ACPI_CPUFREQ_PROC_INTF is not set
CONFIG_X86_SPEEDSTEP_LIB=m

#
```

```
# Bus options (PCI, PCMCIA, EISA, MCA, ISA)
#
CONFIG_PCI=y
# CONFIG_PCI_GOBIOS is not set
# CONFIG_PCI_GOMMCONFIG is not set
# CONFIG_PCI_GODIRECT is not set
CONFIG_PCI_GOANY=y
CONFIG_PCI_BIOS=y
CONFIG_PCI_DIRECT=y
CONFIG_PCI_MMCONFIG=y
CONFIG_PCIEPORTBUS=y
CONFIG_HOTPLUG_PCI_PCIE=m
# CONFIG_HOTPLUG_PCI_PCIE_POLL_EVENT_MODE is not set
CONFIG_PCIEAER=y
CONFIG_ARCH_SUPPORTS_MSI=y
# CONFIG_PCI_MSI is not set
CONFIG_HT_IRQ=y
CONFIG_ISA_DMA_API=y
# CONFIG_ISA is not set
# CONFIG_MCA is not set
# CONFIG_SCx200 is not set
CONFIG_K8_NB=y

#
# PCCARD (PCMCIA/CardBus) support
#
CONFIG_PCCARD=y
# CONFIG_PCMCIA_DEBUG is not set
CONFIG_PCMCIA=y
CONFIG_PCMCIA_LOAD_CIS=y
CONFIG_PCMCIA_IOCTL=y
CONFIG_CARDBUS=y

#
# PC-card bridges
#
CONFIG_YENTA=y
CONFIG_YENTA_O2=y
CONFIG_YENTA_RICOH=y
CONFIG_YENTA_TI=y
CONFIG_YENTA_ENE_TUNE=y
CONFIG_YENTA_TOSHIBA=y
CONFIG_PD6729=m
# CONFIG_I82092 is not set
CONFIG_PCCARD_NONSTATIC=y
CONFIG_HOTPLUG_PCI=y
CONFIG_HOTPLUG_PCI_FAKE=m
CONFIG_HOTPLUG_PCI_COMPAQ=m
```

```
# CONFIG_HOTPLUG_PCI_COMPAQ_NVRAM is not set
# CONFIG_HOTPLUG_PCI_IBM is not set
# CONFIG_HOTPLUG_PCI_ACPI is not set
# CONFIG_HOTPLUG_PCI_CPCI is not set
# CONFIG_HOTPLUG_PCI_SHPC is not set

#
# Executable file formats
#
CONFIG_BINFMT_ELF=y
# CONFIG_BINFMT_AOUT is not set
CONFIG_BINFMT_MISC=y

#
# Networking
#
CONFIG_NET=y

#
# Networking options
#
CONFIG_PACKET=y
CONFIG_PACKET_MMAP=y
CONFIG_UNIX=y
CONFIG_XFRM=y
CONFIG_XFRM_USER=y
# CONFIG_XFRM_SUB_POLICY is not set
# CONFIG_XFRM_MIGRATE is not set
CONFIG_NET_KEY=m
# CONFIG_NET_KEY_MIGRATE is not set
CONFIG_INET=y
CONFIG_IP_MULTICAST=y
CONFIG_IP_ADVANCED_ROUTER=y
CONFIG_ASK_IP_FIB_HASH=y
# CONFIG_IP_FIB_TRIE is not set
CONFIG_IP_FIB_HASH=y
CONFIG_IP_MULTIPLE_TABLES=y
CONFIG_IP_ROUTE_MULTIPATH=y
# CONFIG_IP_ROUTE_MULTIPATH_CACHED is not set
CONFIG_IP_ROUTE_VERBOSE=y
# CONFIG_IP_PNP is not set
CONFIG_NET_IPIP=m
CONFIG_NET_IPGRE=m
CONFIG_NET_IPGRE_BROADCAST=y
CONFIG_IP_MROUTE=y
CONFIG_IP_PIMSM_V1=y
CONFIG_IP_PIMSM_V2=y
# CONFIG_ARPD is not set
```

```
CONFIG_SYN_COOKIES=y
CONFIG_INET_AH=m
CONFIG_INET_ESP=m
CONFIG_INET_IPCOMP=m
CONFIG_INET_XFRM_TUNNEL=m
CONFIG_INET_TUNNEL=m
CONFIG_INET_XFRM_MODE_TRANSPORT=m
CONFIG_INET_XFRM_MODE_TUNNEL=m
# CONFIG_INET_XFRM_MODE_BEET is not set
CONFIG_INET_DIAG=m
CONFIG_INET_TCP_DIAG=m
CONFIG_TCP_CONG_ADVANCED=y
CONFIG_TCP_CONG_BIC=y
CONFIG_TCP_CONG_CUBIC=m
CONFIG_TCP_CONG_WESTWOOD=m
CONFIG_TCP_CONG_HTCP=m
CONFIG_TCP_CONG_HSTCP=m
CONFIG_TCP_CONG_HYBLA=m
CONFIG_TCP_CONG_VEGAS=m
CONFIG_TCP_CONG_SCALABLE=m
CONFIG_TCP_CONG_LP=m
CONFIG_TCP_CONG_VENO=m
# CONFIG_TCP_CONG_YEAH is not set
# CONFIG_TCP_CONG_ILLINOIS is not set
CONFIG_DEFAULT_BIC=y
# CONFIG_DEFAULT_CUBIC is not set
# CONFIG_DEFAULT_HTCP is not set
# CONFIG_DEFAULT_VEGAS is not set
# CONFIG_DEFAULT_WESTWOOD is not set
# CONFIG_DEFAULT_RENO is not set
CONFIG_DEFAULT_TCP_CONG="bic"
CONFIG_TCP_MD5SIG=y
# 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_NETWORK_SECMARK=y
CONFIG_NETFILTER=y
# CONFIG_NETFILTER_DEBUG is not set
CONFIG_BRIDGE_NETFILTER=y

#
# Core Netfilter Configuration
#
CONFIG_NETFILTER_NETLINK=m
CONFIG_NETFILTER_NETLINK_QUEUE=m
CONFIG_NETFILTER_NETLINK_LOG=m
CONFIG_NF_CONNTRACK_ENABLED=m
```

CONFIG_NF_CONNTRACK=m
CONFIG_NF_CT_ACCT=y
CONFIG_NF_CONNTRACK_MARK=y
CONFIG_NF_CONNTRACK_SECMARK=y
CONFIG_NF_CONNTRACK_EVENTS=y
CONFIG_NF_CT_PROTO_GRE=m
CONFIG_NF_CT_PROTO_SCTP=m
CONFIG_NF_CONNTRACK_AMANDA=m
CONFIG_NF_CONNTRACK_FTP=m
CONFIG_NF_CONNTRACK_H323=m
CONFIG_NF_CONNTRACK_IRC=m
CONFIG_NF_CONNTRACK_NETBIOS_NS=m
CONFIG_NF_CONNTRACK_PPTP=m
CONFIG_NF_CONNTRACK_SANE=m
CONFIG_NF_CONNTRACK_SIP=m
CONFIG_NF_CONNTRACK_TFTP=m
CONFIG_NF_CT_NETLINK=m
CONFIG_NETFILTER_XTABLES=m
CONFIG_NETFILTER_XT_TARGET_CLASSIFY=m
CONFIG_NETFILTER_XT_TARGET_CONNMARK=m
CONFIG_NETFILTER_XT_TARGET_DSCP=m
CONFIG_NETFILTER_XT_TARGET_MARK=m
CONFIG_NETFILTER_XT_TARGET_NFQUEUE=m
CONFIG_NETFILTER_XT_TARGET_NFLOG=m
CONFIG_NETFILTER_XT_TARGET_NOTRACK=m
CONFIG_NETFILTER_XT_TARGET_SECMARK=m
CONFIG_NETFILTER_XT_TARGET_CONNSECMARK=m
CONFIG_NETFILTER_XT_TARGET_TCPMSS=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_DSCP=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
CONFIG_NETFILTER_XT_MATCH_POLICY=m
CONFIG_NETFILTER_XT_MATCH_MULTIPORT=m
CONFIG_NETFILTER_XT_MATCH_PHYSDEV=m
CONFIG_NETFILTER_XT_MATCH_PKTTYPE=m
CONFIG_NETFILTER_XT_MATCH_QUOTA=m
CONFIG_NETFILTER_XT_MATCH_REALM=m
CONFIG_NETFILTER_XT_MATCH_SCTP=m
CONFIG_NETFILTER_XT_MATCH_STATE=m

```
CONFIG_NETFILTER_XT_MATCH_STATISTIC=m
CONFIG_NETFILTER_XT_MATCH_STRING=m
CONFIG_NETFILTER_XT_MATCH_TCPMSS=m
CONFIG_NETFILTER_XT_MATCH_HASHLIMIT=m

#
# IP: Netfilter Configuration
#
CONFIG_NF_CONNTRACK_IPV4=m
CONFIG_NF_CONNTRACK_PROC_COMPAT=y
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_AH=m
CONFIG_IP_NF_MATCH_TTL=m
CONFIG_IP_NF_MATCH_OWNER=m
CONFIG_IP_NF_MATCH_ADDRTYPE=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_NF_NAT=m
CONFIG_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_NF_NAT_SNMP_BASIC=m
CONFIG_NF_NAT_PROTO_GRE=m
CONFIG_NF_NAT_FTP=m
CONFIG_NF_NAT_IRC=m
CONFIG_NF_NAT_TFTP=m
CONFIG_NF_NAT_AMANDA=m
CONFIG_NF_NAT_PPTP=m
CONFIG_NF_NAT_H323=m
CONFIG_NF_NAT_SIP=m
CONFIG_IP_NF_MANGLE=m
CONFIG_IP_NF_TARGET_TOS=m
CONFIG_IP_NF_TARGET_ECN=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
```

```
#
# Bridge: Netfilter Configuration
#
CONFIG_BRIDGE_NF_EBTABLES=m
CONFIG_BRIDGE_EBT_BROUTE=m
CONFIG_BRIDGE_EBT_T_FILTER=m
CONFIG_BRIDGE_EBT_T_NAT=m
CONFIG_BRIDGE_EBT_802_3=m
CONFIG_BRIDGE_EBT_AMONG=m
CONFIG_BRIDGE_EBT_ARP=m
CONFIG_BRIDGE_EBT_IP=m
CONFIG_BRIDGE_EBT_LIMIT=m
CONFIG_BRIDGE_EBT_MARK=m
CONFIG_BRIDGE_EBT_PKTTYPE=m
CONFIG_BRIDGE_EBT_STP=m
CONFIG_BRIDGE_EBT_VLAN=m
CONFIG_BRIDGE_EBT_ARPREPLY=m
CONFIG_BRIDGE_EBT_DNAT=m
CONFIG_BRIDGE_EBT_MARK_T=m
CONFIG_BRIDGE_EBT_REDIRECT=m
CONFIG_BRIDGE_EBT_SNAT=m
CONFIG_BRIDGE_EBT_LOG=m
CONFIG_BRIDGE_EBT_ULOG=m
CONFIG_IP_DCCP=m
CONFIG_INET_DCCP_DIAG=m
CONFIG_IP_DCCP_ACKVEC=y

#
# DCCP CCIDs Configuration (EXPERIMENTAL)
#
CONFIG_IP_DCCP_CCID2=m
# CONFIG_IP_DCCP_CCID2_DEBUG is not set
CONFIG_IP_DCCP_CCID3=m
CONFIG_IP_DCCP_TFRC_LIB=m
# CONFIG_IP_DCCP_CCID3_DEBUG is not set
CONFIG_IP_DCCP_CCID3_RTO=100
CONFIG_IP_SCTP=m
# CONFIG_SCTP_DBG_MSG is not set
# CONFIG_SCTP_DBG_OBJCNT is not set
# CONFIG_SCTP_HMAC_NONE is not set
# CONFIG_SCTP_HMAC_SHA1 is not set
CONFIG_SCTP_HMAC_MD5=y
CONFIG_TIPC=m
# CONFIG_TIPC_ADVANCED is not set
# CONFIG_TIPC_DEBUG is not set
CONFIG_ATM=m
CONFIG_ATM_CLIP=m
```

```
# CONFIG_ATM_CLIP_NO_ICMP is not set
CONFIG_ATM_LANE=m
# CONFIG_ATM_MPOA is not set
CONFIG_ATM_BR2684=m
# CONFIG_ATM_BR2684_IPFILTER is not set
CONFIG_BRIDGE=m
CONFIG_VLAN_8021Q=m
# CONFIG_DECNET is not set
CONFIG_LLC=m
# 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_ECONET is not set
# CONFIG_WAN_ROUTER is not set

#
# QoS and/or fair queueing
#
CONFIG_NET_SCHED=y
CONFIG_NET_SCH_FIFO=y

#
# Queueing/Scheduling
#
CONFIG_NET_SCH_CBQ=m
CONFIG_NET_SCH_HTB=m
CONFIG_NET_SCH_HFSC=m
CONFIG_NET_SCH_ATM=m
CONFIG_NET_SCH_PRIO=m
CONFIG_NET_SCH_RED=m
CONFIG_NET_SCH_SFQ=m
CONFIG_NET_SCH_TEQL=m
CONFIG_NET_SCH_TBF=m
CONFIG_NET_SCH_GRED=m
CONFIG_NET_SCH_DSMARK=m
CONFIG_NET_SCH_NETEM=m
CONFIG_NET_SCH_INGRESS=m

#
# Classification
#
CONFIG_NET_CLS=y
CONFIG_NET_CLS_BASIC=m
CONFIG_NET_CLS_TCINDEX=m
CONFIG_NET_CLS_ROUTE4=m
CONFIG_NET_CLS_ROUTE=y
```

```
CONFIG_NET_CLS_FW=m
CONFIG_NET_CLS_U32=m
CONFIG_CLS_U32_PERF=y
CONFIG_CLS_U32_MARK=y
CONFIG_NET_CLS_RSVP=m
CONFIG_NET_CLS_RSVP6=m
CONFIG_NET_EMATCH=y
CONFIG_NET_EMATCH_STACK=32
CONFIG_NET_EMATCH_CMP=m
CONFIG_NET_EMATCH_NBYTE=m
CONFIG_NET_EMATCH_U32=m
CONFIG_NET_EMATCH_META=m
CONFIG_NET_EMATCH_TEXT=m
CONFIG_NET_CLS_ACT=y
CONFIG_NET_ACT_POLICE=m
CONFIG_NET_ACT_GACT=m
CONFIG_GACT_PROB=y
CONFIG_NET_ACT_MIRRED=m
# CONFIG_NET_ACT_IPT is not set
CONFIG_NET_ACT_PEDIT=m
CONFIG_NET_ACT_SIMP=m
CONFIG_NET_CLS_IND=y
CONFIG_NET_ESTIMATOR=y

#
# Network testing
#
CONFIG_NET_PKTGEN=m
# CONFIG_NET_TCPPROBE is not set
# CONFIG_HAMRADIO is not set
# CONFIG_IRDA is not set
# CONFIG_BT is not set
# CONFIG_AF_RXRPC is not set
CONFIG_FIB_RULES=y

#
# Wireless
#
# CONFIG_CFG80211 is not set
# CONFIG_WIRELESS_EXT is not set
# CONFIG_MAC80211 is not set
# CONFIG_IEEE80211 is not set
# CONFIG_RFKILL is not set

#
# Device Drivers
#
```

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

#
# Connector - unified userspace <-> kernelspace linker
#
CONFIG_CONNECTOR=y
CONFIG_PROC_EVENTS=y
CONFIG_MTD=m
# CONFIG_MTD_DEBUG is not set
CONFIG_MTD_CONCAT=m
CONFIG_MTD_PARTITIONS=y
CONFIG_MTD_REDBOOT_PARTS=m
CONFIG_MTD_REDBOOT_DIRECTORY_BLOCK=-1
# CONFIG_MTD_REDBOOT_PARTS_UNALLOCATED is not set
# CONFIG_MTD_REDBOOT_PARTS_READONLY is not set

#
# User Modules And Translation Layers
#
CONFIG_MTD_CHAR=m
CONFIG_MTD_BLKDEVS=m
CONFIG_MTD_BLOCK=m
CONFIG_MTD_BLOCK_RO=m
CONFIG_FTL=m
CONFIG_NFTL=m
CONFIG_NFTL_RW=y
# CONFIG_INFTL is not set
CONFIG_RFD_FTL=m
# CONFIG_SSFDC is not set

#
# RAM/ROM/Flash chip drivers
#
CONFIG_MTD_CFI=m
CONFIG_MTD_JEDECPROBE=m
CONFIG_MTD_GEN_PROBE=m
# CONFIG_MTD_CFI_ADV_OPTIONS is not set
CONFIG_MTD_MAP_BANK_WIDTH_1=y
CONFIG_MTD_MAP_BANK_WIDTH_2=y
CONFIG_MTD_MAP_BANK_WIDTH_4=y
# CONFIG_MTD_MAP_BANK_WIDTH_8 is not set
# CONFIG_MTD_MAP_BANK_WIDTH_16 is not set
```

```
# CONFIG_MTD_MAP_BANK_WIDTH_32 is not set
CONFIG_MTD_CFI_I1=y
CONFIG_MTD_CFI_I2=y
# CONFIG_MTD_CFI_I4 is not set
# CONFIG_MTD_CFI_I8 is not set
CONFIG_MTD_CFI_INTELEXT=m
CONFIG_MTD_CFI_AMDSTD=m
CONFIG_MTD_CFI_STAA=m
CONFIG_MTD_CFI_UTIL=m
CONFIG_MTD_RAM=m
CONFIG_MTD_ROM=m
CONFIG_MTD_ABSENT=m

#
# Mapping drivers for chip access
#
# CONFIG_MTD_COMPLEX_MAPPINGS is not set
# CONFIG_MTD_PHYSMAP is not set
# CONFIG_MTD_PNC2000 is not set
CONFIG_MTD_SC520CDP=m
CONFIG_MTD_NETSC520=m
CONFIG_MTD_TS5500=m
# CONFIG_MTD_AMD76XROM is not set
# CONFIG_MTD_ICHXROM is not set
# CONFIG_MTD_ESB2ROM is not set
# CONFIG_MTD_CK804XROM is not set
CONFIG_MTD_SCB2_FLASH=m
# CONFIG_MTD_NETtel is not set
# CONFIG_MTD_DILNETPC is not set
# CONFIG_MTD_L440GX is not set
# CONFIG_MTD_PLATRAM is not set

#
# Self-contained MTD device drivers
#
# CONFIG_MTD_PMC551 is not set
# CONFIG_MTD_SLRAM is not set
# CONFIG_MTD_PHRAM is not set
CONFIG_MTD_MTDRAM=m
CONFIG_MTDRAM_TOTAL_SIZE=4096
CONFIG_MTDRAM_ERASE_SIZE=128
CONFIG_MTD_BLOCK2MTD=m

#
# Disk-On-Chip Device Drivers
#
# CONFIG_MTD_DOC2000 is not set
# CONFIG_MTD_DOC2001 is not set
```

```
# CONFIG_MTD_DOC2001PLUS is not set
CONFIG_MTD_NAND=m
# CONFIG_MTD_NAND_VERIFY_WRITE is not set
CONFIG_MTD_NAND_ECC_SMC=y
# CONFIG_MTD_NAND_MUSEUM_IDS is not set
CONFIG_MTD_NAND_IDS=m
CONFIG_MTD_NAND_DISKONCHIP=m
# CONFIG_MTD_NAND_DISKONCHIP_PROBE_ADVANCED is not set
CONFIG_MTD_NAND_DISKONCHIP_PROBE_ADDRESS=0
# CONFIG_MTD_NAND_DISKONCHIP_BBTWRITE is not set
# CONFIG_MTD_NAND_CAFE is not set
CONFIG_MTD_NAND_CS553X=m
CONFIG_MTD_NAND_NANDSIM=m
# CONFIG_MTD_NAND_PLATFORM is not set
# CONFIG_MTD_ONENAND is not set

#
# UBI - Unsorted block images
#
# CONFIG_MTD_UBI 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=m
CONFIG_BLK_CPQ_DA=m
CONFIG_BLK_CPQ_CISS_DA=m
# CONFIG_CISS_SCSI_TAPE is not set
CONFIG_BLK_DEV_DAC960=m
# 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=m
CONFIG_BLK_DEV_SX8=m
CONFIG_BLK_DEV_RAM=y
CONFIG_BLK_DEV_RAM_COUNT=16
CONFIG_BLK_DEV_RAM_SIZE=16384
CONFIG_BLK_DEV_RAM_BLOCKSIZE=1024
CONFIG_CDROM_PKTCDVD=m
CONFIG_CDROM_PKTCDVD_BUFFERS=8
# CONFIG_CDROM_PKTCDVD_WCACHE is not set
# CONFIG_BLK_DEV_DRBD is not set
CONFIG_ATA_OVER_ETH=m

#
# Misc devices
#
# CONFIG_IBM_ASM is not set
# CONFIG_PHANTOM is not set
# CONFIG_SGI_IOC4 is not set
# CONFIG_TIFM_CORE is not set
# CONFIG_ASUS_LAPTOP is not set
# CONFIG_MSI_LAPTOP is not set
# CONFIG_SONY_LAPTOP is not set
# CONFIG_THINKPAD_ACPI is not set
# CONFIG_IDE is not set

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

#
# 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=m
# CONFIG_BLK_DEV_SR_VENDOR 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 is not set
# CONFIG_SCSI_LOGGING is not set
# CONFIG_SCSI_SCAN_ASYNC is not set
CONFIG_SCSI_WAIT_SCAN=m

#
# SCSI Transports
#
CONFIG_SCSI_SPI_ATTRS=m
CONFIG_SCSI_FC_ATTRS=m
CONFIG_SCSI_ISCSI_ATTRS=m
CONFIG_SCSI_SAS_ATTRS=m
CONFIG_SCSI_SAS_LIBSAS=m
# CONFIG_SCSI_SAS_LIBSAS_DEBUG is not set

#
# SCSI low-level drivers
#
CONFIG_ISCSI_TCP=m
CONFIG_BLK_DEV_3W_XXXX_RAID=m
CONFIG_SCSI_3W_9XXX=m
CONFIG_SCSI_ACARD=m
CONFIG_SCSI_AACRAID=m
CONFIG_SCSI_AIC7XXX=m
CONFIG_AIC7XXX_CMDS_PER_DEVICE=4
CONFIG_AIC7XXX_RESET_DELAY_MS=15000
# CONFIG_AIC7XXX_DEBUG_ENABLE is not set
CONFIG_AIC7XXX_DEBUG_MASK=0
# CONFIG_AIC7XXX_REG_PRETTY_PRINT is not set
CONFIG_SCSI_AIC7XXX_OLD=m
CONFIG_SCSI_AIC79XX=m
CONFIG_AIC79XX_CMDS_PER_DEVICE=4
CONFIG_AIC79XX_RESET_DELAY_MS=15000
# CONFIG_AIC79XX_DEBUG_ENABLE is not set
CONFIG_AIC79XX_DEBUG_MASK=0
# CONFIG_AIC79XX_REG_PRETTY_PRINT is not set
CONFIG_SCSI_AIC94XX=m
# CONFIG_AIC94XX_DEBUG is not set
# CONFIG_SCSI_DPT_I2O is not set
# CONFIG_SCSI_ADVANSYS is not set
# CONFIG_SCSI_ARCMSR is not set
CONFIG_MEGARAID_NEWGEN=y
CONFIG_MEGARAID_MM=m
CONFIG_MEGARAID_MAILBOX=m
CONFIG_MEGARAID_LEGACY=m
CONFIG_MEGARAID_SAS=m
```

```
CONFIG_SCSI_HPTIOP=m
CONFIG_SCSI_BUSLOGIC=m
# CONFIG_SCSI_OMIT_FLASHPOINT 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=m
CONFIG_SCSI_IPS=m
CONFIG_SCSI_INITIO=m
# CONFIG_SCSI_INIA100 is not set
CONFIG_SCSI_STEX=m
CONFIG_SCSI_SYM53C8XX_2=m
CONFIG_SCSI_SYM53C8XX_DMA_ADDRESSING_MODE=1
CONFIG_SCSI_SYM53C8XX_DEFAULT_TAGS=16
CONFIG_SCSI_SYM53C8XX_MAX_TAGS=64
CONFIG_SCSI_SYM53C8XX_MMIO=y
# CONFIG_SCSI_IPR is not set
CONFIG_SCSI_QLOGIC_1280=m
CONFIG_SCSI_QLA_FC=m
CONFIG_SCSI_QLA_ISCSI=m
CONFIG_SCSI_LPFC=m
CONFIG_SCSI_DC395x=m
# CONFIG_SCSI_DC390T is not set
# CONFIG_SCSI_NSP32 is not set
# CONFIG_SCSI_DEBUG is not set
# CONFIG_SCSI_SRP is not set

#
# PCMCIA SCSI adapter support
#
# CONFIG_PCMCIA_AHA152X is not set
# CONFIG_PCMCIA_FDOMAIN is not set
# CONFIG_PCMCIA_NINJA_SCSI is not set
# CONFIG_PCMCIA_QLOGIC is not set
# CONFIG_PCMCIA_SYM53C500 is not set
CONFIG_ATA=y
# CONFIG_ATA_NONSTANDARD is not set
CONFIG_ATA_ACPI=y
CONFIG_SATA_AHCI=y
# CONFIG_SATA_SVW is not set
CONFIG_ATA_PIIX=y
# CONFIG_SATA_MV is not set
# CONFIG_SATA_NV is not set
# CONFIG_PDC_ADMA is not set
# CONFIG_SATA_QSTOR is not set
# CONFIG_SATA_PROMISE is not set
# CONFIG_SATA_SX4 is not set
# CONFIG_SATA_SIL is not set
```

```
# CONFIG_SATA_SIL24 is not set
# CONFIG_SATA_SIS is not set
# CONFIG_SATA_ULI is not set
# CONFIG_SATA_VIA is not set
# CONFIG_SATA_VITESSE is not set
# CONFIG_SATA_INIC162X is not set
# CONFIG_PATA_ALI is not set
# CONFIG_PATA_AMD is not set
# CONFIG_PATA_ARTOP is not set
# CONFIG_PATA_ATIIXP is not set
# CONFIG_PATA_CMD640_PCI is not set
# CONFIG_PATA_CMD64X is not set
# CONFIG_PATA_CS5520 is not set
# CONFIG_PATA_CS5530 is not set
# CONFIG_PATA_CS5535 is not set
# CONFIG_PATA_CYPRESS is not set
# CONFIG_PATA_EFAR is not set
# CONFIG_ATA_GENERIC is not set
# CONFIG_PATA_HPT366 is not set
# CONFIG_PATA_HPT37X is not set
# CONFIG_PATA_HPT3X2N is not set
# CONFIG_PATA_HPT3X3 is not set
# CONFIG_PATA_IT821X is not set
# CONFIG_PATA_IT8213 is not set
# CONFIG_PATA_JMICRON is not set
# CONFIG_PATA_TRIFLEX is not set
# CONFIG_PATA_MARVELL is not set
CONFIG_PATA_MPIIX=m
# CONFIG_PATA_OLDPIIX is not set
# CONFIG_PATA_NETCELL is not set
# CONFIG_PATA_NS87410 is not set
# CONFIG_PATA_OPTI is not set
# CONFIG_PATA_OPTIDMA is not set
# CONFIG_PATA_PCMCIA is not set
# CONFIG_PATA_PDC_OLD is not set
# CONFIG_PATA_RADISYS is not set
# CONFIG_PATA_RZ1000 is not set
# CONFIG_PATA_SC1200 is not set
# CONFIG_PATA_SERVERWORKS is not set
# CONFIG_PATA_PDC2027X is not set
# CONFIG_PATA_SIL680 is not set
# CONFIG_PATA_SIS is not set
# CONFIG_PATA_VIA is not set
# CONFIG_PATA_WINBOND 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_FIREWIRE is not set
# CONFIG_IEEE1394 is not set

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

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

#
# Ethernet (10 or 100Mbit)
#
# CONFIG_NET_ETHERNET is not set
CONFIG_NETDEV_1000=y
# 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
CONFIG_R8169=m
CONFIG_R8169_NAPI=y
CONFIG_R8169_VLAN=y
```

```
# CONFIG_SIS190 is not set
# CONFIG_SKGE is not set
# 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
# CONFIG_QLA3XXX is not set
# CONFIG_ATL1 is not set
# CONFIG_NETDEV_10000 is not set
# CONFIG_TR is not set

#
# Wireless LAN
#
# CONFIG_WLAN_PRE80211 is not set
# CONFIG_WLAN_80211 is not set
# CONFIG_NET_PCMCIA is not set
# CONFIG_WAN is not set
# CONFIG_ATM_DRIVERS 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=m
CONFIG_NETPOLL=y
CONFIG_NETPOLL_TRAP=y
CONFIG_NET_POLL_CONTROLLER=y

#
# ISDN subsystem
#
# CONFIG_ISDN is not set

#
# Telephony Support
#
# CONFIG_PHONE is not set

#
# Input device support
#
CONFIG_INPUT=y
CONFIG_INPUT_FF_MEMLESS=y
# CONFIG_INPUT_POLLDEV is not set
```

```
#
# 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=m
# 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_KEYBOARD_STOWAWAY is not set
CONFIG_INPUT_MOUSE=y
CONFIG_MOUSE_PS2=y
CONFIG_MOUSE_PS2_ALPS=y
CONFIG_MOUSE_PS2_LOGIPS2PP=y
CONFIG_MOUSE_PS2_SYNAPTICS=y
CONFIG_MOUSE_PS2_LIFEBOOK=y
CONFIG_MOUSE_PS2_TRACKPOINT=y
# CONFIG_MOUSE_PS2_TOUCHKIT is not set
CONFIG_MOUSE_SERIAL=m
# CONFIG_MOUSE_APPLETOUCH is not set
CONFIG_MOUSE_VSXXXAA=m
CONFIG_INPUT_JOYSTICK=y
# CONFIG_JOYSTICK_ANALOG is not set
# CONFIG_JOYSTICK_A3D is not set
# CONFIG_JOYSTICK_ADI is not set
# CONFIG_JOYSTICK_COBRA is not set
# CONFIG_JOYSTICK_GF2K is not set
# CONFIG_JOYSTICK_GRIP is not set
# CONFIG_JOYSTICK_GRIP_MP is not set
# CONFIG_JOYSTICK_GUILLEMOT is not set
# CONFIG_JOYSTICK_INTERACT is not set
# CONFIG_JOYSTICK_SIDEWINDER is not set
# CONFIG_JOYSTICK_TMDC is not set
# CONFIG_JOYSTICK_IFORCE is not set
# CONFIG_JOYSTICK_WARRIOR is not set
# CONFIG_JOYSTICK_MAGELLAN is not set
```

```
# CONFIG_JOYSTICK_SPACEORB is not set
# CONFIG_JOYSTICK_SPACEBALL is not set
# CONFIG_JOYSTICK_STINGER is not set
CONFIG_JOYSTICK_TWIDJOY=m
CONFIG_JOYSTICK_JOYDUMP=m
# CONFIG_JOYSTICK_XPAD is not set
# CONFIG_INPUT_TABLET is not set
# CONFIG_INPUT_TOUCHSCREEN is not set
CONFIG_INPUT_MISC=y
CONFIG_INPUT_PCSPKR=m
CONFIG_INPUT_WISTRON_BTNS=m
# CONFIG_INPUT_ATLAS_BTNS is not set
# CONFIG_INPUT_ATI_REMOTE is not set
# CONFIG_INPUT_ATI_REMOTE2 is not set
# CONFIG_INPUT_KEYSPAN_REMOTE is not set
# CONFIG_INPUT_POWERMATE is not set
# CONFIG_INPUT_YEALINK is not set
CONFIG_INPUT_UINPUT=m

#
# Hardware I/O ports
#
CONFIG_SERIO=y
CONFIG_SERIO_I8042=y
CONFIG_SERIO_SERPORT=y
# CONFIG_SERIO_CT82C710 is not set
# CONFIG_SERIO_PCIPS2 is not set
CONFIG_SERIO_LIBPS2=y
CONFIG_SERIO_RAW=m
CONFIG_GAMEPORT=m
CONFIG_GAMEPORT_NS558=m
CONFIG_GAMEPORT_L4=m
CONFIG_GAMEPORT_EMU10K1=m
CONFIG_GAMEPORT_FM801=m

#
# Character devices
#
CONFIG_VT=y
CONFIG_VT_CONSOLE=y
CONFIG_HW_CONSOLE=y
CONFIG_VT_HW_CONSOLE_BINDING=y
CONFIG_SERIAL_NONSTANDARD=y
# CONFIG_COMPUTONE is not set
# CONFIG_ROCKETPORT is not set
CONFIG_CYCLADES=m
# CONFIG_CYZ_INTR is not set
# CONFIG_DIGIEPCA is not set
```

```
# CONFIG_MOXA_INTELLIO is not set
# CONFIG_MOXA_SMARTIO is not set
# CONFIG_MOXA_SMARTIO_NEW is not set
# CONFIG_ISI is not set
CONFIG_SYNCLINK=m
CONFIG_SYNCLINKMP=m
CONFIG_SYNCLINK_GT=m
CONFIG_N_HDLC=m
# CONFIG_SPECIALIX is not set
# CONFIG_SX is not set
# CONFIG_RIO is not set
# CONFIG_STALDRV is not set

#
# Serial drivers
#
CONFIG_SERIAL_8250=y
CONFIG_SERIAL_8250_CONSOLE=y
CONFIG_SERIAL_8250_PCI=y
CONFIG_SERIAL_8250_PNP=y
CONFIG_SERIAL_8250_CS=m
CONFIG_SERIAL_8250_NR_UARTS=32
CONFIG_SERIAL_8250_RUNTIME_UARTS=4
CONFIG_SERIAL_8250_EXTENDED=y
CONFIG_SERIAL_8250_MANY_PORTS=y
CONFIG_SERIAL_8250_SHARE_IRQ=y
CONFIG_SERIAL_8250_DETECT_IRQ=y
CONFIG_SERIAL_8250_RSA=y

#
# Non-8250 serial port support
#
CONFIG_SERIAL_CORE=y
CONFIG_SERIAL_CORE_CONSOLE=y
CONFIG_SERIAL_JSM=m
CONFIG_UNIX98_PTYS=y
CONFIG_LEGACY_PTYS=y
CONFIG_LEGACY_PTY_COUNT=256

#
# IPMI
#
CONFIG_IPMI_HANDLER=m
# CONFIG_IPMI_PANIC_EVENT is not set
CONFIG_IPMI_DEVICE_INTERFACE=m
CONFIG_IPMI_SI=m
CONFIG_IPMI_WATCHDOG=m
CONFIG_IPMI_POWEROFF=m
```

```
CONFIG_WATCHDOG=y
# CONFIG_WATCHDOG_NOWAYOUT is not set

#
# Watchdog Device Drivers
#
CONFIG_SOFT_WATCHDOG=m
# CONFIG_ACQUIRE_WDT is not set
# CONFIG_ADVANTECH_WDT is not set
CONFIG_ALIM1535_WDT=m
CONFIG_ALIM7101_WDT=m
# CONFIG_SC520_WDT is not set
# CONFIG_EUROTECH_WDT is not set
# CONFIG_IB700_WDT is not set
CONFIG_IBMASR=m
# CONFIG_WAFER_WDT is not set
CONFIG_I6300ESB_WDT=m
# CONFIG_ITCO_WDT is not set
# CONFIG_SC1200_WDT is not set
# CONFIG_PC87413_WDT is not set
# CONFIG_60XX_WDT is not set
# CONFIG_SBC8360_WDT is not set
# CONFIG_CPU5_WDT is not set
# CONFIG_SMSC37B787_WDT is not set
CONFIG_W83627HF_WDT=m
# CONFIG_W83697HF_WDT is not set
CONFIG_W83877F_WDT=m
CONFIG_W83977F_WDT=m
CONFIG_MACHZ_WDT=m
# CONFIG_SBC_EPX_C3_WATCHDOG is not set

#
# PCI-based Watchdog Cards
#
CONFIG_PCIPCWATCHDOG=m
CONFIG_WDTPCI=m
CONFIG_WDT_501_PCI=y
CONFIG_HW_RANDOM=y
CONFIG_HW_RANDOM_INTEL=m
CONFIG_HW_RANDOM_AMD=m
CONFIG_HW_RANDOM_GEODE=m
CONFIG_HW_RANDOM_VIA=m
CONFIG_NVRAM=y
CONFIG_RTC=y
# CONFIG_R3964 is not set
# CONFIG_APPLICOM is not set
CONFIG_SONYPI=m
CONFIG_AGP=y
```

```
CONFIG_AGP_ALI=y
CONFIG_AGP_ATI=y
CONFIG_AGP_AMD=y
CONFIG_AGP_AMD64=y
CONFIG_AGP_INTEL=y
CONFIG_AGP_NVIDIA=y
CONFIG_AGP_SIS=y
CONFIG_AGP_SWORKS=y
CONFIG_AGP_VIA=y
CONFIG_AGP_EFFICEON=y
CONFIG_DRM=m
# CONFIG_DRM_TDFX is not set
CONFIG_DRM_R128=m
CONFIG_DRM_RADEON=m
CONFIG_DRM_I810=m
CONFIG_DRM_I830=m
CONFIG_DRM_I915=m
CONFIG_DRM_MGA=m
# CONFIG_DRM_SIS is not set
CONFIG_DRM_VIA=m
CONFIG_DRM_SAVAGE=m

#
# PCMCIA character devices
#
# CONFIG_SYNCLINK_CS is not set
CONFIG_CARDMAN_4000=m
CONFIG_CARDMAN_4040=m
# CONFIG_MWAVE is not set
CONFIG_PC8736x_GPIO=m
CONFIG_NSC_GPIO=m
CONFIG_CS5535_GPIO=m
CONFIG_RAW_DRIVER=y
CONFIG_MAX_RAW_DEVS=8192
# CONFIG_HPET is not set
CONFIG_HANGCHECK_TIMER=m

#
# TPM devices
#
# CONFIG_TCG_TPM is not set
# CONFIG_TELCLOCK is not set
CONFIG_DEVPORT=y
CONFIG_I2C=m
CONFIG_I2C_BOARDINFO=y
CONFIG_I2C_CHARDEV=m

#
```

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

#
# I2C Hardware Bus support
#
CONFIG_I2C_ALI1535=m
CONFIG_I2C_ALI1563=m
CONFIG_I2C_ALI15X3=m
CONFIG_I2C_AMD756=m
CONFIG_I2C_AMD756_S4882=m
CONFIG_I2C_AMD8111=m
CONFIG_I2C_I801=m
CONFIG_I2C_I810=m
CONFIG_I2C_PIIX4=m
CONFIG_I2C_ISA=m
CONFIG_I2C_NFORCE2=m
# CONFIG_I2C_OCORES is not set
CONFIG_I2C_PARPORT_LIGHT=m
CONFIG_I2C_PROSAVAGE=m
CONFIG_I2C_SAVAGE4=m
# CONFIG_I2C_SIMTEC is not set
# CONFIG_SCx200_ACB is not set
CONFIG_I2C_SIS5595=m
CONFIG_I2C_SIS630=m
CONFIG_I2C_SIS96X=m
CONFIG_I2C_STUB=m
CONFIG_I2C_VIA=m
CONFIG_I2C_VIAPRO=m
CONFIG_I2C_VOODOO3=m

#
# Miscellaneous I2C Chip support
#
CONFIG_SENSORS_DS1337=m
CONFIG_SENSORS_DS1374=m
CONFIG_SENSORS_EEPROM=m
CONFIG_SENSORS_PCF8574=m
CONFIG_SENSORS_PCA9539=m
CONFIG_SENSORS_PCF8591=m
CONFIG_SENSORS_MAX6875=m
# 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
CONFIG_HWMON=m
CONFIG_HWMON_VID=m
CONFIG_SENSORS_ABITUGURU=m
# CONFIG_SENSORS_AD7418 is not set
CONFIG_SENSORS_ADM1021=m
CONFIG_SENSORS_ADM1025=m
CONFIG_SENSORS_ADM1026=m
# CONFIG_SENSORS_ADM1029 is not set
CONFIG_SENSORS_ADM1031=m
CONFIG_SENSORS_ADM9240=m
# CONFIG_SENSORS_K8TEMP is not set
CONFIG_SENSORS_ASB100=m
CONFIG_SENSORS_ATXP1=m
CONFIG_SENSORS_DS1621=m
CONFIG_SENSORS_F71805F=m
CONFIG_SENSORS_FSCHER=m
CONFIG_SENSORS_FSCPOS=m
CONFIG_SENSORS_GL518SM=m
CONFIG_SENSORS_GL520SM=m
# CONFIG_SENSORS_CORETEMP is not set
CONFIG_SENSORS_IT87=m
CONFIG_SENSORS_LM63=m
CONFIG_SENSORS_LM75=m
CONFIG_SENSORS_LM77=m
CONFIG_SENSORS_LM78=m
CONFIG_SENSORS_LM80=m
CONFIG_SENSORS_LM83=m
CONFIG_SENSORS_LM85=m
CONFIG_SENSORS_LM87=m
CONFIG_SENSORS_LM90=m
CONFIG_SENSORS_LM92=m
CONFIG_SENSORS_MAX1619=m
# CONFIG_SENSORS_MAX6650 is not set
CONFIG_SENSORS_PC87360=m
# CONFIG_SENSORS_PC87427 is not set
CONFIG_SENSORS_SIS5595=m
CONFIG_SENSORS_SMSC47M1=m
```

```
CONFIG_SENSORS_SMSC47M192=m
CONFIG_SENSORS_SMSC47B397=m
CONFIG_SENSORS_VIA686A=m
# CONFIG_SENSORS_VT1211 is not set
CONFIG_SENSORS_VT8231=m
CONFIG_SENSORS_W83781D=m
CONFIG_SENSORS_W83791D=m
CONFIG_SENSORS_W83792D=m
# CONFIG_SENSORS_W83793 is not set
CONFIG_SENSORS_W83L785TS=m
CONFIG_SENSORS_W83627HF=m
CONFIG_SENSORS_W83627EHF=m
CONFIG_SENSORS_HDAPS=m
# CONFIG_SENSORS_APPLESMC is not set
# CONFIG_HWMON_DEBUG_CHIP is not set

#
# Multifunction device drivers
#
# CONFIG_MFD_SM501 is not set

#
# Multimedia devices
#
CONFIG_VIDEO_DEV=m
CONFIG_VIDEO_V4L1=y
CONFIG_VIDEO_V4L1_COMPAT=y
CONFIG_VIDEO_V4L2=y
CONFIG_VIDEO_CAPTURE_DRIVERS=y
# CONFIG_VIDEO_ADV_DEBUG is not set
# CONFIG_VIDEO_HELPER_CHIPS_AUTO is not set

#
# Encoders/decoders and other helper chips
#

#
# Audio decoders
#
# CONFIG_VIDEO_TVAUDIO is not set
# CONFIG_VIDEO_TDA7432 is not set
# CONFIG_VIDEO_TDA9840 is not set
# CONFIG_VIDEO_TDA9875 is not set
# CONFIG_VIDEO_TEA6415C is not set
# CONFIG_VIDEO_TEA6420 is not set
# CONFIG_VIDEO_MSP3400 is not set
# CONFIG_VIDEO_CS53L32A is not set
# CONFIG_VIDEO_TLV320AIC23B is not set
```

```
CONFIG_VIDEO_WM8775=m
# CONFIG_VIDEO_WM8739 is not set

#
# Video decoders
#
# CONFIG_VIDEO_BT819 is not set
# CONFIG_VIDEO_BT856 is not set
# CONFIG_VIDEO_BT866 is not set
# CONFIG_VIDEO_KS0127 is not set
# CONFIG_VIDEO_OV7670 is not set
# CONFIG_VIDEO_SAA7110 is not set
# CONFIG_VIDEO_SAA7111 is not set
# CONFIG_VIDEO_SAA7114 is not set
# CONFIG_VIDEO_SAA711X is not set
# CONFIG_VIDEO_SAA7191 is not set
# CONFIG_VIDEO_TVP5150 is not set
# CONFIG_VIDEO_VPX3220 is not set

#
# Video and audio decoders
#
CONFIG_VIDEO_CX25840=m

#
# MPEG video encoders
#
CONFIG_VIDEO_CX2341X=m

#
# Video encoders
#
# CONFIG_VIDEO_SAA7127 is not set
# CONFIG_VIDEO_SAA7185 is not set
# CONFIG_VIDEO_ADV7170 is not set
# CONFIG_VIDEO_ADV7175 is not set

#
# Video improvement chips
#
# CONFIG_VIDEO_UPD64031A is not set
# CONFIG_VIDEO_UPD64083 is not set
# CONFIG_VIDEO_VIVI is not set
CONFIG_VIDEO_BT848=m
CONFIG_VIDEO_SAA6588=m
# CONFIG_VIDEO_CPIA 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 is not set
# 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
# CONFIG_VIDEO_CX88 is not set
# CONFIG_VIDEO_IVTV is not set
# CONFIG_VIDEO_CAFE_CCIC is not set
CONFIG_RADIO_ADAPTERS=y
# CONFIG_RADIO_GEMTEK_PCI is not set
# CONFIG_RADIO_MAXIRADIO is not set
# CONFIG_RADIO_MAESTRO is not set
# CONFIG_DVB_CORE is not set
CONFIG_VIDEO_TUNER=m
CONFIG_VIDEO_BUF=m
CONFIG_VIDEO_BTCX=m
CONFIG_VIDEO_IR=m
CONFIG_VIDEO_TVEEPROM=m
CONFIG_DAB=y

#
# Graphics support
#
CONFIG_BACKLIGHT_LCD_SUPPORT=y
CONFIG_BACKLIGHT_CLASS_DEVICE=y
CONFIG_LCD_CLASS_DEVICE=m
# CONFIG_BACKLIGHT_PROGEAR is not set

#
# Display device support
#
# CONFIG_DISPLAY_SUPPORT is not set
CONFIG_VGASTATE=m
CONFIG_FB=y
# CONFIG_FIRMWARE_EDID is not set
CONFIG_FB_DDC=m
CONFIG_FB_CFB_FILLRECT=m
CONFIG_FB_CFB_COPYAREA=m
CONFIG_FB_CFB_IMAGEBLIT=m
# CONFIG_FB_SYS_FILLRECT is not set
# CONFIG_FB_SYS_COPYAREA is not set
# CONFIG_FB_SYS_IMAGEBLIT is not set
# CONFIG_FB_SYS_FOPS is not set
CONFIG_FB_DEFERRED_IO=y
# CONFIG_FB_SVGALIB is not set
```

```
# CONFIG_FB_MACMODES is not set
CONFIG_FB_BACKLIGHT=y
CONFIG_FB_MODE_HELPERS=y
CONFIG_FB_TILEBLITTING=y

#
# Frame buffer hardware drivers
#
CONFIG_FB_CIRRUS=m
# CONFIG_FB_PM2 is not set
# CONFIG_FB_CYBER2000 is not set
# CONFIG_FB_ARC is not set
# CONFIG_FB_ASILIANT is not set
# CONFIG_FB_IMSTT is not set
CONFIG_FB_VGA16=m
# CONFIG_FB_VESA is not set
# CONFIG_FB_HECUBA is not set
# CONFIG_FB_HGA is not set
# CONFIG_FB_S1D13XXX is not set
CONFIG_FB_NVIDIA=m
CONFIG_FB_NVIDIA_I2C=y
# CONFIG_FB_NVIDIA_DEBUG is not set
CONFIG_FB_NVIDIA_BACKLIGHT=y
CONFIG_FB_RIVA=m
# CONFIG_FB_RIVA_I2C is not set
# CONFIG_FB_RIVA_DEBUG is not set
CONFIG_FB_RIVA_BACKLIGHT=y
CONFIG_FB_I810=m
CONFIG_FB_I810_GTF=y
CONFIG_FB_I810_I2C=y
# CONFIG_FB_LE80578 is not set
CONFIG_FB_INTEL=m
# CONFIG_FB_INTEL_DEBUG is not set
# CONFIG_FB_INTEL_I2C is not set
# CONFIG_FB_MATROX is not set
# CONFIG_FB_RADEON is not set
# CONFIG_FB_ATY128 is not set
# CONFIG_FB_ATY is not set
# CONFIG_FB_S3 is not set
CONFIG_FB_SAVAGE=m
CONFIG_FB_SAVAGE_I2C=y
CONFIG_FB_SAVAGE_ACCEL=y
# CONFIG_FB_SIS is not set
# CONFIG_FB_NEOMAGIC is not set
CONFIG_FB_KYRO=m
# CONFIG_FB_3DFX is not set
# CONFIG_FB_VOODOO1 is not set
# CONFIG_FB_VT8623 is not set
```

```
CONFIG_FB_CYBLA=m
# CONFIG_FB_TRIDENT is not set
# CONFIG_FB_ARK is not set
# CONFIG_FB_PM3 is not set
# CONFIG_FB_GEODE is not set
# CONFIG_FB_VIRTUAL is not set

#
# Console display driver support
#
CONFIG_VGA_CONSOLE=y
CONFIG_VGACON_SOFT_SCROLLBACK=y
CONFIG_VGACON_SOFT_SCROLLBACK_SIZE=64
CONFIG_VIDEO_SELECT=y
CONFIG_DUMMY_CONSOLE=y
CONFIG_FRAMEBUFFER_CONSOLE=y
CONFIG_FRAMEBUFFER_CONSOLE_ROTATION=y
# CONFIG_FONTS is not set
CONFIG_FONT_8x8=y
CONFIG_FONT_8x16=y
CONFIG_LOGO=y
# CONFIG_LOGO_LINUX_MONO is not set
# CONFIG_LOGO_LINUX_VGA16 is not set
CONFIG_LOGO_LINUX_CLUT224=y

#
# Sound
#
# CONFIG_SOUND is not set

#
# HID Devices
#
CONFIG_HID=y
# CONFIG_HID_DEBUG 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 is not set

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

```
#
# USB Gadget Support
#
# CONFIG_USB_GADGET is not set
# CONFIG_MMC is not set

#
# LED devices
#
CONFIG_NEW_LEDS=y
CONFIG_LEDS_CLASS=y

#
# LED drivers
#

#
# LED Triggers
#
CONFIG_LEDS_TRIGGERS=y
CONFIG_LEDS_TRIGGER_TIMER=m
CONFIG_LEDS_TRIGGER_HEARTBEAT=m

#
# InfiniBand support
#
CONFIG_INFINIBAND=m
CONFIG_INFINIBAND_USER_MAD=m
CONFIG_INFINIBAND_USER_ACCESS=m
CONFIG_INFINIBAND_USER_MEM=y
CONFIG_INFINIBAND_ADDR_TRANS=y
CONFIG_INFINIBAND_MTHCA=m
CONFIG_INFINIBAND_MTHCA_DEBUG=y
# CONFIG_INFINIBAND_AMSO1100 is not set
# CONFIG_MLX4_INFINIBAND is not set
CONFIG_INFINIBAND_IPOIB=m
# CONFIG_INFINIBAND_IPOIB_CM is not set
CONFIG_INFINIBAND_IPOIB_DEBUG=y
# CONFIG_INFINIBAND_IPOIB_DEBUG_DATA is not set
CONFIG_INFINIBAND_SRP=m
CONFIG_INFINIBAND_ISER=m

#
# EDAC - error detection and reporting (RAS) (EXPERIMENTAL)
#
CONFIG_EDAC=y

#
```

```
# Reporting subsystems
#
# CONFIG_EDAC_DEBUG is not set
CONFIG_EDAC_MM_EDAC=m
CONFIG_EDAC_AMD76X=m
CONFIG_EDAC_E7XXX=m
CONFIG_EDAC_E752X=m
CONFIG_EDAC_I82875P=m
CONFIG_EDAC_I82860=m
CONFIG_EDAC_R82600=m
CONFIG_EDAC_POLL=y

#
# Real Time Clock
#
CONFIG_RTC_LIB=m
CONFIG_RTC_CLASS=m

#
# RTC interfaces
#
CONFIG_RTC_INTF_SYSFS=y
CONFIG_RTC_INTF_PROC=y
CONFIG_RTC_INTF_DEV=y
# CONFIG_RTC_INTF_DEV_UIE_EMUL is not set
# CONFIG_RTC_DRV_TEST is not set

#
# I2C RTC drivers
#
CONFIG_RTC_DRV_DS1307=m
CONFIG_RTC_DRV_DS1672=m
# CONFIG_RTC_DRV_MAX6900 is not set
CONFIG_RTC_DRV_RS5C372=m
CONFIG_RTC_DRV_ISL1208=m
CONFIG_RTC_DRV_X1205=m
CONFIG_RTC_DRV_PCF8563=m
CONFIG_RTC_DRV_PCF8583=m

#
# SPI RTC drivers
#

#
# Platform RTC drivers
#
# CONFIG_RTC_DRV_CMOS is not set
CONFIG_RTC_DRV_DS1553=m
```

```
CONFIG_RTC_DRV_DS1742=m
# CONFIG_RTC_DRV_M48T86 is not set
CONFIG_RTC_DRV_V3020=m

#
# on-CPU RTC drivers
#

#
# DMA Engine support
#
CONFIG_DMA_ENGINE=y

#
# DMA Clients
#
CONFIG_NET_DMA=y

#
# DMA Devices
#
CONFIG_INTEL_IOATDMA=m

#
# Virtualization
#
CONFIG_KVM=m
CONFIG_KVM_INTEL=m
# CONFIG_KVM_AMD is not set

#
# File systems
#
CONFIG_EXT2_FS=y
CONFIG_EXT2_FS_XATTR=y
CONFIG_EXT2_FS_POSIX_ACL=y
CONFIG_EXT2_FS_SECURITY=y
CONFIG_EXT2_FS_XIP=y
CONFIG_FS_XIP=y
CONFIG_EXT3_FS=y
CONFIG_EXT3_FS_XATTR=y
CONFIG_EXT3_FS_POSIX_ACL=y
CONFIG_EXT3_FS_SECURITY=y
# CONFIG_EXT4DEV_FS is not set
CONFIG_JBD=y
# CONFIG_JBD_DEBUG is not set
CONFIG_FS_MBCACHE=y
CONFIG_REISERFS_FS=y
```

```
# CONFIG_REISERFS_CHECK is not set
# CONFIG_REISERFS_PROC_INFO is not set
# CONFIG_REISERFS_FS_XATTR is not set
# CONFIG_JFS_FS is not set
CONFIG_FS_POSIX_ACL=y
# CONFIG_XFS_FS is not set
# CONFIG_GFS2_FS is not set
# CONFIG_OCFS2_FS is not set
# CONFIG_MINIX_FS is not set
# CONFIG_ROMFS_FS is not set
CONFIG_INOTIFY=y
CONFIG_INOTIFY_USER=y
CONFIG_QUOTA=y
CONFIG_QUOTA_COMPAT=y
# CONFIG_QFMT_V1 is not set
CONFIG_QFMT_V2=y
CONFIG_SIM_FS=m
CONFIG_VZ_QUOTA=m
# CONFIG_VZ_QUOTA_UNLOAD is not set
CONFIG_VZ_QUOTA_UGID=y
CONFIG_QUOTACTL=y
CONFIG_DNOTIFY=y
# CONFIG_AUTOFS_FS is not set
CONFIG_AUTOFS4_FS=m
# CONFIG_FUSE_FS is not set

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

#
# DOS/FAT/NT Filesystems
#
CONFIG_FAT_FS=m
CONFIG_MSDOS_FS=m
CONFIG_VFAT_FS=m
CONFIG_FAT_DEFAULT_CODEPAGE=437
CONFIG_FAT_DEFAULT_IOCHARSET="ascii"
# CONFIG_NTFS_FS is not set

#
# Pseudo filesystems
#
```

```
CONFIG_PROC_FS=y
CONFIG_PROC_KCORE=y
CONFIG_PROC_VMCORE=y
CONFIG_PROC_SYSCTL=y
CONFIG_SYSFS=y
CONFIG_TMPFS=y
# CONFIG_TMPFS_POSIX_ACL is not set
CONFIG_HUGETLBFS=y
CONFIG_HUGETLB_PAGE=y
CONFIG_RAMFS=y
CONFIG_CONFIGFS_FS=m

#
# 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_JFFS2_FS is not set
CONFIG_CRAMFS=m
CONFIG_VXFS_FS=m
# 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=m
CONFIG_NFS_V3=y
CONFIG_NFS_V3_ACL=y
CONFIG_NFS_V4=y
CONFIG_NFS_DIRECTIO=y
CONFIG_NFSD=m
CONFIG_NFSD_V2_ACL=y
CONFIG_NFSD_V3=y
CONFIG_NFSD_V3_ACL=y
CONFIG_NFSD_V4=y
CONFIG_NFSD_TCP=y
CONFIG_LOCKD=m
CONFIG_LOCKD_V4=y
CONFIG_EXPORTFS=m
CONFIG_NFS_ACL_SUPPORT=m
```

```
CONFIG_NFS_COMMON=y
CONFIG_SUNRPC=m
CONFIG_SUNRPC_GSS=m
# CONFIG_SUNRPC_BIND34 is not set
CONFIG_RPCSEC_GSS_KRB5=m
CONFIG_RPCSEC_GSS_SPKM3=m
# CONFIG_SMB_FS is not set
CONFIG_CIFS=m
# CONFIG_CIFS_STATS is not set
CONFIG_CIFS_WEAK_PW_HASH=y
CONFIG_CIFS_XATTR=y
CONFIG_CIFS_POSIX=y
# CONFIG_CIFS_DEBUG2 is not set
# CONFIG_CIFS_EXPERIMENTAL 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

#
# Partition Types
#
CONFIG_PARTITION_ADVANCED=y
# CONFIG_ACORN_PARTITION is not set
CONFIG_OSF_PARTITION=y
CONFIG_AMIGA_PARTITION=y
# CONFIG_ATARI_PARTITION is not set
CONFIG_MAC_PARTITION=y
CONFIG_MSDOS_PARTITION=y
CONFIG_BSD_DISKLABEL=y
CONFIG_MINIX_SUBPARTITION=y
CONFIG_SOLARIS_X86_PARTITION=y
CONFIG_UNIXWARE_DISKLABEL=y
# CONFIG_LDM_PARTITION is not set
CONFIG_SGI_PARTITION=y
# CONFIG_ULTRIX_PARTITION is not set
CONFIG_SUN_PARTITION=y
CONFIG_KARMA_PARTITION=y
CONFIG_EFI_PARTITION=y
# CONFIG_SYSV68_PARTITION is not set

#
# Native Language Support
#
CONFIG_NLS=y
CONFIG_NLS_DEFAULT="utf8"
CONFIG_NLS_CODEPAGE_437=y
CONFIG_NLS_CODEPAGE_737=m
```

```
CONFIG_NLS_CODEPAGE_775=m
CONFIG_NLS_CODEPAGE_850=m
CONFIG_NLS_CODEPAGE_852=m
CONFIG_NLS_CODEPAGE_855=m
CONFIG_NLS_CODEPAGE_857=m
CONFIG_NLS_CODEPAGE_860=m
CONFIG_NLS_CODEPAGE_861=m
CONFIG_NLS_CODEPAGE_862=m
CONFIG_NLS_CODEPAGE_863=m
CONFIG_NLS_CODEPAGE_864=m
CONFIG_NLS_CODEPAGE_865=m
CONFIG_NLS_CODEPAGE_866=m
CONFIG_NLS_CODEPAGE_869=m
CONFIG_NLS_CODEPAGE_936=m
CONFIG_NLS_CODEPAGE_950=m
CONFIG_NLS_CODEPAGE_932=m
CONFIG_NLS_CODEPAGE_949=m
CONFIG_NLS_CODEPAGE_874=m
CONFIG_NLS_ISO8859_8=m
CONFIG_NLS_CODEPAGE_1250=m
CONFIG_NLS_CODEPAGE_1251=m
CONFIG_NLS_ASCII=y
CONFIG_NLS_ISO8859_1=m
CONFIG_NLS_ISO8859_2=m
CONFIG_NLS_ISO8859_3=m
CONFIG_NLS_ISO8859_4=m
CONFIG_NLS_ISO8859_5=m
CONFIG_NLS_ISO8859_6=m
CONFIG_NLS_ISO8859_7=m
CONFIG_NLS_ISO8859_9=m
CONFIG_NLS_ISO8859_13=m
CONFIG_NLS_ISO8859_14=m
CONFIG_NLS_ISO8859_15=m
CONFIG_NLS_KOI8_R=m
CONFIG_NLS_KOI8_U=m
CONFIG_NLS_UTF8=m

#
# Distributed Lock Manager
#
CONFIG_DLM=m
# CONFIG_DLM_DEBUG is not set

#
# Instrumentation Support
#
CONFIG_PROFILING=y
CONFIG_OPROFILE=m
```

```
CONFIG_KPROBES=y

#
# Kernel hacking
#
CONFIG_TRACE_IRQFLAGS_SUPPORT=y
# CONFIG_PRINTK_TIME is not set
# CONFIG_ENABLE_MUST_CHECK is not set
CONFIG_MAGIC_SYSRQ=y
# CONFIG_UNUSED_SYMBOLS is not set
CONFIG_DEBUG_FS=y
# CONFIG_HEADERS_CHECK is not set
# CONFIG_SYSRQ_DEBUG is not set
# CONFIG_DEBUG_KERNEL is not set
# CONFIG_SLUB_DEBUG_ON is not set
CONFIG_DEBUG_BUGVERBOSE=y
CONFIG_EARLY_PRINTK=y
CONFIG_X86_FIND_SMP_CONFIG=y
CONFIG_X86_MPPARSE=y
CONFIG_DOUBLEFAULT=y

#
# OpenVZ
#
CONFIG_VE=y
CONFIG_VE_CALLS=m
CONFIG_VZ_GENCALLS=y
CONFIG_VE_NETDEV=m
CONFIG_VE_ETHDEV=m
CONFIG_VZ_DEV=m
CONFIG_VE_IPTABLES=y
CONFIG_VZ_WDOG=m
# CONFIG_VZ_CHECKPOINT is not set

#
# Security options
#
# CONFIG_KEYS is not set

#
# Cryptographic options
#
CONFIG_CRYPTO=y
CONFIG_CRYPTO_ALGAPI=y
CONFIG_CRYPTO_BLKCIPHER=m
CONFIG_CRYPTO_HASH=y
CONFIG_CRYPTO_MANAGER=y
CONFIG_CRYPTO_HMAC=y
```

```
# CONFIG_CRYPTO_XCBC is not set
CONFIG_CRYPTO_NULL=m
CONFIG_CRYPTO_MD4=m
CONFIG_CRYPTO_MD5=y
CONFIG_CRYPTO_SHA1=y
CONFIG_CRYPTO_SHA256=m
CONFIG_CRYPTO_SHA512=m
CONFIG_CRYPTO_WP512=m
CONFIG_CRYPTO_TGR192=m
# CONFIG_CRYPTO_GF128MUL is not set
CONFIG_CRYPTO_ECB=m
CONFIG_CRYPTO_CBC=m
CONFIG_CRYPTO_PCBC=m
# CONFIG_CRYPTO_LRW is not set
# CONFIG_CRYPTO_CRYPTD is not set
CONFIG_CRYPTO_DES=m
# CONFIG_CRYPTO_FCRYPT is not set
CONFIG_CRYPTO_BLOWFISH=m
CONFIG_CRYPTO_TWOFISH=m
CONFIG_CRYPTO_TWOFISH_COMMON=m
# CONFIG_CRYPTO_TWOFISH_586 is not set
CONFIG_CRYPTO_SERPENT=m
CONFIG_CRYPTO_AES=m
CONFIG_CRYPTO_AES_586=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=y
# CONFIG_CRYPTO_CAMELLIA is not set
# CONFIG_CRYPTO_TEST is not set

#
# Hardware crypto devices
#
CONFIG_CRYPTO_DEV_PADLOCK=m
CONFIG_CRYPTO_DEV_PADLOCK_AES=m
# CONFIG_CRYPTO_DEV_PADLOCK_SHA is not set
# CONFIG_CRYPTO_DEV_GEODE is not set

#
# Library routines
#
CONFIG_BITREVERSE=y
```

```
CONFIG_CRC_CCITT=m
CONFIG_CRC16=m
# CONFIG_CRC_ITU_T is not set
CONFIG_CRC32=y
CONFIG_LIBCRC32C=y
CONFIG_ZLIB_INFLATE=y
CONFIG_ZLIB_DEFLATE=m
CONFIG_REED_SOLOMON=m
CONFIG_REED_SOLOMON_DEC16=y
CONFIG_TEXTSEARCH=y
CONFIG_TEXTSEARCH_KMP=m
CONFIG_TEXTSEARCH_BM=m
CONFIG_TEXTSEARCH_FSM=m
CONFIG_PLIST=y
CONFIG_HAS_IOMEM=y
CONFIG_HAS_IOPORT=y
CONFIG_HAS_DMA=y

#
# User resources
#
CONFIG_BEANCOUNTERS=y
CONFIG_BC_RSS_ACCOUNTING=y
CONFIG_BC_IO_ACCOUNTING=y
CONFIG_BC_IO_SCHED=y
CONFIG_BC_SWAP_ACCOUNTING=y
CONFIG_BC_PROC=y
# CONFIG_BC_DEBUG is not set
CONFIG_GENERIC_HARDIRQS=y
CONFIG_GENERIC_IRQ_PROBE=y
CONFIG_GENERIC_PENDING_IRQ=y
CONFIG_X86_SMP=y
CONFIG_X86_HT=y
CONFIG_X86_BIOS_REBOOT=y
CONFIG_X86_TRAMPOLINE=y
CONFIG_KTIME_SCALAR=y
```

I hope it sheed some light

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Fri, 11 Jan 2008 17:37:38 GMT
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This might be of importance as well, even when just VE101 is started only (it starts ok) the EEXIST message is spitted out in dmesg

VE: 101: stopped
kobject_add failed for net with -EEXIST, don't try to register things with the same name in the same directory.
 [<c052f593>] kobject_shadow_add+0x113/0x1a0
 [<c052f701>] kobject_register+0x21/0x50
 [<c052f8b2>] kobject_kset_add_dir+0x52/0xa0
 [<c05a8755>] device_add+0x75/0x4e0
 [<c0442383>] ub_slab_charge+0x53/0x80
 [<c052f1ff>] kobject_get+0xf/0x20
 [<c0601464>] register_netdevice+0x204/0x4b0
 [<c0602db9>] register_netdev+0x49/0x70
 [<f8e8aa58>] real_env_create+0x918/0xb50 [vzmon]
 [<f8e8b12d>] vzcalls_ioctl+0x49d/0x4d0 [vzmon]
 [<c043ce14>] getnstimeofday+0x34/0xf0
 [<f896917b>] vzctl_ioctl+0x5b/0x60 [vzdev]
 [<f8e8ac90>] vzcalls_ioctl+0x0/0x4d0 [vzmon]
 [<f8969120>] vzctl_ioctl+0x0/0x60 [vzdev]
 [<c048628b>] do_ioctl+0x2b/0xc0
 [<c06716e7>] do_page_fault+0x1d7/0x5d0
 [<c048654e>] vfs_ioctl+0x22e/0x2b0
 [<c048660d>] sys_ioctl+0x3d/0x70
 [<c04051ca>] syscall_call+0x7/0xb
 [<c0660000>] __xfrm_find_acq_byseq+0x10/0x60
 =======================
kobject_kset_add_dir: kobject_register error: -17
kobject_add failed for net with -EEXIST, don't try to register things with the same name in the same directory.
 [<c052f593>] kobject_shadow_add+0x113/0x1a0
 [<c052f701>] kobject_register+0x21/0x50
 [<c052f8b2>] kobject_kset_add_dir+0x52/0xa0
 [<c05a8755>] device_add+0x75/0x4e0
 [<c052f1ff>] kobject_get+0xf/0x20
 [<c0601464>] register_netdevice+0x204/0x4b0
 [<c04602f9>] __kzalloc+0x19/0x50
 [<c0602db9>] register_netdev+0x49/0x70
 [<f8f99791>] venet_dev_start+0x41/0x80 [vznetdev]
 [<f8f99129>] veip_start+0x59/0x80 [vznetdev]
 [<f8f9980c>] venet_start+0x3c/0x50 [vznetdev]
 [<c04482f6>] ve_hook_iterate_init+0x76/0xf0
 [<f8e8abcb>] real_env_create+0xa8b/0xb50 [vzmon]
 [<f8e8b12d>] vzcalls_ioctl+0x49d/0x4d0 [vzmon]
 [<c043ce14>] getnstimeofday+0x34/0xf0
 [<f896917b>] vzctl_ioctl+0x5b/0x60 [vzdev]
 [<f8e8ac90>] vzcalls_ioctl+0x0/0x4d0 [vzmon]
 [<f8969120>] vzctl_ioctl+0x0/0x60 [vzdev]
 [<c048628b>] do_ioctl+0x2b/0xc0
 [<c06716e7>] do_page_fault+0x1d7/0x5d0
 [<c048654e>] vfs_ioctl+0x22e/0x2b0

[<c048660d>] sys_ioctl+0x3d/0x70
[<c04051ca>] syscall_call+0x7/0xb
[<c0660000>] __xfrm_find_acq_byseq+0x10/0x60
=======================
kobject_kset_add_dir: kobject_register error: -17
VE: 101: started

and I can access internet after
#vzctrl enter 101

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Fri, 11 Jan 2008 20:38:00 GMT
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I decided to yet another time get the 2.6.18 kernel configured to see and boot my SATA disk and guess what I did it! The trick was to select some options in SCSI were I found an option for SATA in the low-level drivers. But then I also had to select the depreciated sata option in in the IDE config section. So now I can boot this kernel which is a big step forward... however...

Now it refuses to see my built in NIC RTL-8110SC/8169SC, well it show up in lspci but it doesn't bother about r8169.ko driver, although I load it with autoload.d/kernel-2.6 it doesn't attach to the eth0 interface, it simply doesn't exists!

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Fri, 11 Jan 2008 21:20:58 GMT
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hmm something must be really wrong as not even if I plugin a 3Com905C and load the driver eth0 exist, only lo - really wired. lspci sees it though so hw must be functional and I been over the config and can't see anything missing or that shouldn't be there. Anyone have an idea what can cause such thing?

Subject: Re: VE: 102: failed to start with err=-17
Posted by yettyn on Sat, 12 Jan 2008 01:07:03 GMT
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Well it appear 2.6.18 kernel is a dead end for me. I have now tried with a vanilla-2.6.18 and it show same problem - it doesn't even try to load my nic's so there must be some kind of hw problem here.

So not sure which road to go now as 2.6.22 also seem to be a dead road due to being a frosen ovz tree, remains 2.6.24 but how unstable is it?

Subject: I am sooo happy!
Posted by yettyn on Sat, 12 Jan 2008 14:09:10 GMT
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Yes! I got it working with the 2.6.22 kernel. I am not sure what I have done differently but it doesn't matter as I am sooo happy now!

I was on the edge to give up as not even vanilla-2.6.18 would load and use my nic drivers and all the dispersing attempts to get 2.6.22-005.1 working properly. But I thought I would give it a last chance. So I brought home the box from my ISP over the weekend, cleaned out the old kernels and started fresh anew with 2.6.22, and made sure to use ovz config file, made my necessary changes for hardware and removed stuff I definitively not need like for Notebooks, Compac, Dell etc. etc. as the config loads pretty much everything, although mostly as modules. Recompiled kernel and wops! now it works.

Yes, I did one other thing, I plugged in another nic card although I haven't decided if to use it or not yet - but I will certainly leave it in as everything work as is now! Finally I can start to rearrange the box.