

## Re: 2.6.17-rc5-mm2

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-06/msg00662.html>

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- *From:* Mel Gorman <[mel@xxxxxxxxx](mailto:mel@xxxxxxxxx)>
  - *Date:* Fri, 2 Jun 2006 19:38:36 +0100 (IST)
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On Thu, 1 Jun 2006, Andrew Morton wrote:

<ftp://ftp.kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.17-rc5/2.6.17-rc5-mm2/>

- A cfq bug was fixed in mainline, so the git-cfq tree has been restored.
- Various lock-validator and genirq fixes have been added. Should be slightly less oopsy than 2.6.17-rc5-mm1.
- I just realised that I've been accidentally not updating the PCI tree for a while. Will be restored in next -mm.
- Has been booted and has passed various stress-tests on quad x86\_64, quad ancient-Xeon, quad power4, quad ia64, dual old-PIII and a modern pentium-M laptop. So if it breaks, it's your fault.

This reliably goes kablam on an x86\_64 machine with a tg3 network card which was also happening for 2.6.17-rc5-mm1. A patch bisect found that reversing git-net.patch and git-net-git-klibc-fixup.patch on top of the -mm3 got rid of the problem. Don't ask me why.

The console log I have of the most common oops is below and the .config used is attached. The oops happens reliably but at varying times and not always the same oops either. Usually sshing into the machine and compiling the kernel is enough. On at least one occasion, sshing to the machine triggered it.

```
root (hd0,0)
Filesystem type is ext2fs, partition type 0x83
kernel /vmlinuz-autobench ro root=/dev/VolGroup00/LogVol100 rhgb quiet console=ttyS1,19200 autobench_args: root=30726124 ABAT:1149162305 earlyprintk=serial,ttys1,19200
[Linux-bzImage, setup=0x1e00, size=0x1e0682]
initrd /initrd-autobench.img
[Linux-initrd @ 0x37e60000, 0x18fdbc bytes]
```

```
Bootdata ok (command line is ro root=/dev/VolGroup00/LogVol00 rhgb quiet console=ttyS1,19200
autobench_args: root=30726124 ABAT:1149162305 earlyprintk=serial,ttyS1,19200)
Linux version 2.6.17-rc5-mm2-autokern1 (root@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)
(/usr/local/autobench/var/tmp/build/scripts/mkcompile_h: line 61:
/usr/local/autobench/sources/x86_64-cross/*/bin/x86_64-unknown-linux-gnu-gcc: No such file or
directory) #1 SMP Thu Jun 1 06:33:03 CDT 2006
BIOS-provided physical RAM map:
BIOS-e820: 0000000000000000 - 000000000009d400 (usable)
BIOS-e820: 000000000009d400 - 00000000000a0000 (reserved)
BIOS-e820: 00000000000e0000 - 0000000000100000 (reserved)
BIOS-e820: 0000000000100000 - 000000003ffcddc0 (usable)
BIOS-e820: 000000003ffcddc0 - 000000003ffd0000 (ACPI data)
BIOS-e820: 000000003ffd0000 - 0000000040000000 (reserved)
BIOS-e820: 00000000fec00000 - 0000000100000000 (reserved)
kernel direct mapping tables up to 100000000 @ 8000-8000
DMI 2.3 present.
ACPI: PM-Timer IO Port: 0x2208
ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
Processor #0 15:1 APIC version 16
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] enabled)
Processor #1 15:1 APIC version 16
ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] enabled)
Processor #2 15:1 APIC version 16
ACPI: LAPIC (acpi_id[0x03] lapic_id[0x03] enabled)
Processor #3 15:1 APIC version 16
ACPI: LAPIC_NMI (acpi_id[0x00] dfl dfl lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x01] dfl dfl lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x02] dfl dfl lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x03] dfl dfl lint[0x1])
ACPI: IOAPIC (id[0x0e] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 14, version 17, address 0xfec00000, GSI 0-23
ACPI: IOAPIC (id[0x0d] address[0xfec10000] gsi_base[24])
IOAPIC[1]: apic_id 13, version 17, address 0xfec10000, GSI 24-27
ACPI: IOAPIC (id[0x0c] address[0xfec20000] gsi_base[48])
IOAPIC[2]: apic_id 12, version 17, address 0xfec20000, GSI 48-51
ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
ACPI: INT_SRC_OVR (bus 0 bus_irq 11 global_irq 11 low level)
Setting APIC routing to physical flat
ACPI: HPET id: 0x10228203 base: 0xfecff000
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at 50000000 (gap: 40000000:bec00000)
SMP: Allowing 4 CPUs, 0 hotplug CPUs
Built 1 zonelists
Kernel command line: ro root=/dev/VolGroup00/LogVol00 rhgb quiet console=ttyS1,19200 autobench_args:
root=30726124 ABAT:1149162305 earlyprintk=serial,ttyS1,19200
powernow-k8: MP systems not supported by PSB BIOS structure
powernow-k8: MP systems not supported by PSB BIOS structure
powernow-k8: MP systems not supported by PSB BIOS structure
powernow-k8: MP systems not supported by PSB BIOS structure
Red Hat nash version 5.0.32 starting
```

Reading all physical volumes. This may take a while...  
Found volume group "VolGroup00" using metadata type lvm2  
2 logical volume(s) in volume group "VolGroup00" now active  
INIT: version 2.86 booting  
Welcome to Fedora Core  
Press 'I' to enter interactive startup.  
Setting clock (localtime): Thu Jun 1 06:49:46 CDT 2006 [ OK ]  
Starting udev: [ OK ]  
Setting hostname bl6-13.ltc.austin.ibm.com: [ OK ]  
Setting up Logical Volume Management: 2 logical volume(s) in volume group "VolGroup00" now active  
[ OK ]  
Checking filesystems  
Checking all file systems.  
[sbin/fsck.ext3 (1) -- /] fsck.ext3 -a /dev/VolGroup00/LogVol00 /dev/VolGroup00/LogVol00: clean,  
290003/7929856 files, 2612703/7929856 blocks  
[sbin/fsck.ext3 (1) -- /boot] fsck.ext3 -a /dev/sda1 /boot: clean, 62/512512 files, 43213/512064 blocks  
[ OK ]  
Remounting root filesystem in read-write mode: [ OK ]  
Mounting local filesystems: [ OK ]  
Enabling local filesystem quotas: [ OK ]  
Enabling swap space: [ OK ]  
INIT: Entering runlevel: 3  
Entering non-interactive startup  
Starting readahead\_early: Starting background readahead: [ OK ]  
[ OK ]  
FATAL: Error inserting acpi\_cpufreq  
(/lib/modules/2.6.17-rc5-mm2-autokern1/kernel/arch/x86\_64/kernel/cpufreq/acpi-cpufreq.ko): No such  
device  
Bringing up loopback interface: [ OK ]  
Bringing up interface eth1: [ OK ]  
Starting system logger: [ OK ]  
Starting kernel logger: [ OK ]  
Starting irqbalance: [ OK ]  
Starting portmap: [ OK ]  
Starting NFS statd: [ OK ]  
Starting RPC idmapd: FATAL: Module sunrpc not found.  
FATAL: Error running install command for sunrpc  
Starting system message bus: [ OK ]  
Starting Bluetooth services:[ OK ][ OK ]  
Mounting other filesystems: [ OK ]  
Starting hidd: [ OK ]  
Starting automount: [ OK ]  
Starting smartd: [ OK ]  
Starting acpi daemon: [ OK ]  
Starting hpiod: [ OK ]  
Starting hpssd: [ OK ]  
Starting cups: [ OK ]  
Starting sshd: [ OK ]  
Starting sendmail: [ OK ]  
Starting sm-client: [ OK ]  
Starting console mouse services: [ OK ]

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Starting crond: [ OK ]  
Starting xfs: [ OK ]  
Starting anacron: [ OK ]  
Starting atd: [ OK ]  
Starting Avahi daemon: [ OK ]  
Starting cups-config-daemon: [ OK ]  
Starting HAL daemon: [ OK ]

Fedora Core release 5 (Bordeaux)  
Kernel 2.6.17-rc5-mm2-autokern1 on an x86\_64

bl6-13.ltc.austin.ibm.com login: -- 0:conmux-control -- time-stamp -- Jun/01/06 4:50:00 --  
-- 0:conmux-control -- time-stamp -- Jun/01/06 4:53:30 --

Unable to handle kernel NULL pointer dereference at 0000000000000008 RIP:  
[<ffffffff812296a5>] skb\_dequeue+0x2c/0x50  
PGD 33867067 PUD 0 Oops: 0002 [1] SMP last sysfs file: /block/sda/sda1/size  
CPU 0 Modules linked in: ipv6 ppdev hidp rfcomm l2cap bluetooth video sony\_acpi button battery asus\_acpi  
ac lp parport\_pc parport nvram

Pid: 1995, comm: sshd Not tainted 2.6.17-rc5-mm2-autokern1 #1  
RIP: 0010:[<ffffffff812296a5>] [<ffffffff812296a5>] skb\_dequeue+0x2c/0x50  
RSP: 0018:ffff8100336c3c28 EFLAGS: 00010046  
RAX: 0000000000000000 RBX: ffff8100335c1c90 RCX: ffff81003ec74a00  
RDX: 000000000000003d RSI: 0000000000000246 RDI: ffff8100335c1ca8  
RBP: ffff81003d2435c0 R08: ffff810037fda828 R09: ffff81003e671ac0  
R10: 0000000000000008 R11: 0000000000000001 R12: ffff8100335c1ca8  
R13: ffff8100336c3da0 R14: ffff8100336c3d68 R15: 0000000000000000  
FS: 00002b90bfc5be0(0000) GS:ffff811463000(0000) knlGS:00000000f7ef26b0  
CS: 0010 DS: 0000 ES: 0000 CR0: 000000008005003b  
CR2: 0000000000000008 CR3: 000000003327c000 CR4: 000000000000006e0  
Process sshd (pid: 1995, threadinfo ffff8100336c2000, task ffff810037dec090)  
Stack: ffff8100335c1c90 ffff81003d2435c0 ffff8100335c1bc0 ffffffff81283767  
ffffffa100000001 0000005300000001 0000000000000000 00000040000000d0  
00000000000003fad ffff8100330630c0 Call Trace:  
[<ffffffff81283767>] unix\_stream\_recvmsg+0x101/0x4bf  
[<ffffffff8122666e>] release\_sock+0x10/0xae  
[<ffffffff812522d1>] tcp\_sendmsg+0x9d5/0xaa7  
[<ffffffff81223aaf>] do\_sock\_read+0xc6/0xd1  
[<ffffffff81223bff>] sock\_aio\_read+0x4f/0x5e  
[<ffffffff81080bc8>] do\_sync\_read+0xc9/0x106  
[<ffffffff81045d20>] autoremove\_wake\_function+0x0/0x2e  
[<ffffffff8128a3c8>] \_spin\_unlock\_irq+0x6/0xa  
[<ffffffff812882c5>] thread\_return+0x64/0xec  
[<ffffffff81080ce9>] vfs\_read+0xe4/0x172  
[<ffffffff81081037>] sys\_read+0x45/0x6e  
[<ffffffff810092be>] system\_call+0x7e/0x83

Code: 48 89 58 08 48 c7 45 00 00 00 00 00 48 c7 45 08 00 00 00 00 RIP [<ffffffff812296a5>]  
skb\_dequeue+0x2c/0x50 RSP <ffff8100336c3c28>  
CR2: 0000000000000008  
<3>BUG: sleeping function called from invalid context at include/linux/rwsem.h:53

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in\_atomic():0, irqs\_disabled():1

Call Trace:

```
[<ffffffff810299a0>] __might_sleep+0xc0/0xc2
[<ffffffff8103f5a1>] blocking_notifier_call_chain+0x1f/0x4e
[<ffffffff81034c96>] do_exit+0x22/0x8b2
[<ffffffff8117e593>] do_unblank_screen+0x29/0x121
[<ffffffff8128c5a2>] do_page_fault+0x73f/0x7ac
[<ffffffff81092a25>] __pollwait+0x0/0xdd
[<ffffffff81009f8d>] error_exit+0x0/0x84
[<ffffffff812296a5>] skb_dequeue+0x2c/0x50
[<ffffffff8122968e>] skb_dequeue+0x15/0x50
[<ffffffff81283767>] unix_stream_recvmsg+0x101/0x4bf
[<ffffffff8122666e>] release_sock+0x10/0xae
[<ffffffff812522d1>] tcp_sendmsg+0x9d5/0xaa7
[<ffffffff81223aaf>] do_sock_read+0xc6/0xd1
[<ffffffff81223bff>] sock_aio_read+0x4f/0x5e
[<ffffffff81080bc8>] do_sync_read+0xc9/0x106
[<ffffffff81045d20>] autoremove_wake_function+0x0/0x2e
[<ffffffff8128a3c8>] _spin_unlock_irq+0x6/0xa
[<ffffffff812882c5>] thread_return+0x64/0xec
[<ffffffff81080ce9>] vfs_read+0xe4/0x172
[<ffffffff81081037>] sys_read+0x45/0x6e
[<ffffffff810092be>] system_call+0x7e/0x83
```

BUG: spinlock recursion on CPU#0, sshd/1995

lock: ffff8100335c1ca8, .magic: dead4ead, .owner: sshd/1995, .owner\_cpu: 0

Call Trace:

```
[<ffffffff8113ac4f>] _raw_spin_lock+0x3a/0xf1
[<ffffffff8128a32e>] _spin_lock_irqsave+0x9/0xe
[<ffffffff8122968e>] skb_dequeue+0x15/0x50
[<ffffffff81281aff>] unix_release_sock+0x1b9/0x214
[<ffffffff812235cc>] sock_release+0x17/0x99
[<ffffffff812232a7>] sock_destroy_inode+0x0/0x10
[<ffffffff81224295>] sock_close+0x2c/0x30
[<ffffffff81081c55>] __fput+0xd0/0x1a5
[<ffffffff810806b5>] filp_close+0x59/0x61
[<ffffffff81034489>] put_files_struct+0x69/0xac
[<ffffffff81034f00>] do_exit+0x28c/0x8b2
[<ffffffff8117e593>] do_unblank_screen+0x29/0x121
[<ffffffff8128c5a2>] do_page_fault+0x73f/0x7ac
[<ffffffff81092a25>] __pollwait+0x0/0xdd
[<ffffffff81009f8d>] error_exit+0x0/0x84
[<ffffffff812296a5>] skb_dequeue+0x2c/0x50
[<ffffffff8122968e>] skb_dequeue+0x15/0x50
[<ffffffff81283767>] unix_stream_recvmsg+0x101/0x4bf
[<ffffffff8122666e>] release_sock+0x10/0xae
[<ffffffff812522d1>] tcp_sendmsg+0x9d5/0xaa7
[<ffffffff81223aaf>] do_sock_read+0xc6/0xd1
[<ffffffff81223bff>] sock_aio_read+0x4f/0x5e
```

[<ffffff81080bc8>] do\_sync\_read+0xc9/0x106  
[<ffffff81045d20>] autoremove\_wake\_function+0x0/0x2e  
[<ffffff8128a3c8>] \_spin\_unlock\_irq+0x6/0xa  
[<ffffff812882c5>] thread\_return+0x64/0xec  
[<ffffff81080ce9>] vfs\_read+0xe4/0x172  
[<ffffff81081037>] sys\_read+0x45/0x6e  
[<ffffff810092be>] system\_call+0x7e/0x83

NMI Watchdog detected LOCKUP on CPU 0

CPU 0 Modules linked in: ipv6 ppdev hidp rfcomm l2cap bluetooth video sony\_acpi button battery asus\_acpi ac lp parport\_pc parport nvram

Pid: 1995, comm: sshd Not tainted 2.6.17-rc5-mm2-autokern1 #1

RIP: 0010:<ffffff8113aca0> [<ffffff8113aca0>] \_raw\_spin\_lock+0x8b/0xf1

RSP: 0018:ffff8100336c38e8 EFLAGS: 00000002

RAX: 0000000000000008 RBX: ffff8100335c1ca8 RCX: 00000000322d6395

RDX: 00000000000000f9 RSI: fffffff812c3b89 RDI: 0000000000000001

RBP: 000000001400c898 R08: 0000000000000005 R09: 0000000000000000

R10: 0000000000000000 R11: 0000000000000000 R12: 0000000000000001

R13: 0000000000000000 R14: 0000000000000000 R15: 0000000000000000

FS: 00002b90bfcf5be0(0000) GS:ffffff81463000(0000) knlGS:00000000f7ef26b0

CS: 0010 DS: 0000 ES: 0000 CR0: 000000008005003b

CR2: 0000000000000008 CR3: 000000001001000 CR4: 00000000000006e0

Process sshd (pid: 1995, threadinfo ffff8100336c2000, task ffff810037dec090)

Stack: 0000000000000246 0000000000000000 ffff8100335c1ca8 fffffff8128a32e

ffff8100335c1c90 fffffff8122968e ffff81003df6a1c0 ffff8100335c1bc0

ffff8100335c1ef0 fffffff81281aff Call Trace:

[<ffffff8128a32e>] \_spin\_lock\_irqsave+0x9/0xe  
[<ffffff8122968e>] skb\_dequeue+0x15/0x50  
[<ffffff81281aff>] unix\_release\_sock+0x1b9/0x214  
[<ffffff812235cc>] sock\_release+0x17/0x99  
[<ffffff812232a7>] sock\_destroy\_inode+0x0/0x10  
[<ffffff81224295>] sock\_close+0x2c/0x30  
[<ffffff81081c55>] \_\_fput+0xd0/0x1a5  
[<ffffff810806b5>] filp\_close+0x59/0x61  
[<ffffff81034489>] put\_files\_struct+0x69/0xac  
[<ffffff81034f00>] do\_exit+0x28c/0x8b2  
[<ffffff8117e593>] do\_unblank\_screen+0x29/0x121  
[<ffffff8128c5a2>] do\_page\_fault+0x73f/0x7ac  
[<ffffff81092a25>] \_\_pollwait+0x0/0xdd  
[<ffffff81009f8d>] error\_exit+0x0/0x84  
[<ffffff812296a5>] skb\_dequeue+0x2c/0x50  
[<ffffff8122968e>] skb\_dequeue+0x15/0x50  
[<ffffff81283767>] unix\_stream\_recvmsg+0x101/0x4bf  
[<ffffff8122666e>] release\_sock+0x10/0xae  
[<ffffff812522d1>] tcp\_sendmsg+0x9d5/0xaa7  
[<ffffff81223aaf>] do\_sock\_read+0xc6/0xd1  
[<ffffff81223bff>] sock\_aio\_read+0x4f/0x5e  
[<ffffff81080bc8>] do\_sync\_read+0xc9/0x106  
[<ffffff81045d20>] autoremove\_wake\_function+0x0/0x2e  
[<ffffff8128a3c8>] \_spin\_unlock\_irq+0x6/0xa  
[<ffffff812882c5>] thread\_return+0x64/0xec

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[<ffffff81080ce9>] vfs\_read+0xe4/0x172  
[<ffffff81081037>] sys\_read+0x45/0x6e  
[<ffffff810092be>] system\_call+0x7e/0x83

Code: eb d9 45 85 e4 74 d2 45 31 e4 65 48 8b 04 25 00 00 00 00 65 console shuts up ...

<1>Fixing recursive fault but reboot is needed!

NMI Watchdog detected LOCKUP on CPU 1

CPU 1 Modules linked in: ipv6 ppdev hidp rfcomm l2cap bluetooth video sony\_acpi button battery asus\_acpi  
ac lp parport\_pc parport nvram

Pid: 1390, comm: klogd Not tainted 2.6.17-rc5-mm2-autokern1 #1

RIP: 0010:[<ffffff8107d426>] [<ffffff8107d426>] cache\_alloc\_refill+0x145/0x4f5

RSP: 0018:ffff81003f25bb78 EFLAGS: 00000046

RAX: 000000000000000f RBX: ffff810037e0c440 RCX: 000000000000001d

RDX: ffff810037e0c440 RSI: ffff81003c47d000 RDI: 0000000000000000

RBP: ffff810037fda400 R08: ffff810037fd7000 R09: ffff810037f820c0

R10: 00007fff164281e3 R11: 0000000000000246 R12: 000000000000001e

R13: ffff810037fd96c0 R14: 00007fff164281d0 R15: 0000000000000000

FS: 00002ae6948e06d0(0000) GS:ffff81003ff81340(0000) knlGS:00000000f7efb6b0

CS: 0010 DS: 0000 ES: 0000 CRO: 000000008005003b

CR2: 00000037a1f03088 CR3: 000000003d252000 CR4: 000000000000006e0

Process klogd (pid: 1390, threadinfo ffff81003f25a000, task ffff810037c70800)

Stack: 0000000000000000 0000000000000001 000000d0000000d0 0000000000000246

00000000000000d0 ffff810037fd96c0 ffff810037fd96c0 00007fff164281d0

0000000000000000 fffffff8107d2d7 Call Trace:

[<ffffff8107d2d7>] kmem\_cache\_alloc+0x5a/0x64

[<ffffff81227da1>] \_\_alloc\_skb+0x30/0x11d

[<ffffff81226410>] sock\_alloc\_send\_skb+0x6d/0x1ea

[<ffffff8128256e>] unix\_wait\_for\_peer+0xb7/0xc3

[<ffffff81045d20>] autoremove\_wake\_function+0x0/0x2e

[<ffffff8102bed5>] \_\_wake\_up+0x36/0x4d

[<ffffff81282de2>] unix\_dgram\_sendmsg+0x160/0x48f

[<ffffff81223cd5>] do\_sock\_write+0xc7/0xd2

[<ffffff81223e25>] sock\_aio\_write+0x4f/0x5e

[<ffffff81080e40>] do\_sync\_write+0xc9/0x106

[<ffffff81045d20>] autoremove\_wake\_function+0x0/0x2e

[<ffffff81045d20>] autoremove\_wake\_function+0x0/0x2e

[<ffffff81080f64>] vfs\_write+0xe7/0x175

[<ffffff810810a5>] sys\_write+0x45/0x6e

[<ffffff810092be>] system\_call+0x7e/0x83

Code: 48 8b 06 48 39 70 08 74 0a 0f 0b 68 4c b8 2a 81 c2 a1 00 48

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Mel Gorman

Part-time Phd Student Linux Technology Center

University of Limerick IBM Dublin Software Lab#

# Automatically generated make config: don't edit

# Linux kernel version: 2.6.17-rc5-mm2-autokern1

# Fri Jun 2 13:18:52 2006

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```
#
CONFIG_X86_64=y
CONFIG_64BIT=y
CONFIG_X86=y
CONFIG_SEMAPHORE_SLEEPERS=y
CONFIG_MMU=y
CONFIG_RWSEM_GENERIC_SPINLOCK=y
CONFIG_GENERIC_HWEIGHT=y
CONFIG_GENERIC_CALIBRATE_DELAY=y
CONFIG_X86_CMPXCHG=y
CONFIG_EARLY_PRINTK=y
CONFIG_GENERIC_ISA_DMA=y
CONFIG_GENERIC_IOMAP=y
CONFIG_ARCH_MAY_HAVE_PC_FDC=y
CONFIG_DMI=y
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 is not set
CONFIG_SWAP=y
CONFIG_SWAP_PREFETCH=y
CONFIG_SYSVIPC=y
CONFIG_POSIX_MQUEUE=y
CONFIG_BSD_PROCESS_ACCT=y
# CONFIG_BSD_PROCESS_ACCT_V3 is not set
# CONFIG_TASKSTATS is not set
CONFIG_SYSCTL=y
# CONFIG_UTS_NS is not set
CONFIG_AUDIT=y
CONFIG_AUDITSYSCALL=y
CONFIG_IKCONFIG=y
CONFIG_IKCONFIG_PROC=y
CONFIG_CPUSETS=y
# CONFIG_RELAY is not set
CONFIG_INITRAMFS_SOURCE=""
CONFIG_KLIBC_ERRLIST=y
CONFIG_KLIBC_ZLIB=y
CONFIG_UID16=y
CONFIG_CC_OPTIMIZE_FOR_SIZE=y
# CONFIG_EMBEDDED is not set
CONFIG_KALLSYMS=y
```

```
# CONFIG_KALLSYMS_ALL is not set
CONFIG_KALLSYMS_EXTRA_PASS=y
CONFIG_HOTPLUG=y
CONFIG_PRINTK=y
CONFIG_BUG=y
CONFIG_ELF_CORE=y
CONFIG_BASE_FULL=y
CONFIG_RT_MUTEXES=y
CONFIG_FUTEX=y
CONFIG_EPOLL=y
CONFIG_SHMEM=y
CONFIG_SLAB=y
# CONFIG_TINY_SHMEM is not set
CONFIG_BASE_SMALL=0
# CONFIG_SLOB is not set

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

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

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

#
# Processor type and features
#
CONFIG_X86_PC=y
```

```
# CONFIG_X86_VSMP is not set
CONFIG_MK8=y
# CONFIG_MPSC is not set
# CONFIG_GENERIC_CPU is not set
CONFIG_X86_L1_CACHE_BYTES=64
CONFIG_X86_L1_CACHE_SHIFT=6
CONFIG_X86_INTERNODE_CACHE_BYTES=64
CONFIG_X86_TSC=y
CONFIG_X86_GOOD_APIC=y
CONFIG_MICROCODE=m
CONFIG_X86_MSR=y
CONFIG_X86_CPUID=y
CONFIG_X86_IO_APIC=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_MTRR=y
CONFIG_SMP=y
CONFIG_SCHED_SMT=y
CONFIG_SCHED_MC=y
# CONFIG_PREEMPT_NONE is not set
CONFIG_PREEMPT_VOLUNTARY=y
# CONFIG_PREEMPT is not set
CONFIG_PREEMPT_BKL=y
CONFIG_NUMA=y
CONFIG_K8_NUMA=y
CONFIG_NODES_SHIFT=6
CONFIG_X86_64_ACPI_NUMA=y
# CONFIG_NUMA_EMU is not set
CONFIG_ARCH_DISCONTIGMEM_ENABLE=y
CONFIG_ARCH_DISCONTIGMEM_DEFAULT=y
CONFIG_ARCH_SPARSEMEM_ENABLE=y
CONFIG_SELECT_MEMORY_MODEL=y
# CONFIG_FLATMEM_MANUAL is not set
CONFIG_DISCONTIGMEM_MANUAL=y
# CONFIG_SPARSEMEM_MANUAL is not set
CONFIG_DISCONTIGMEM=y
CONFIG_FLAT_NODE_MEM_MAP=y
CONFIG_NEED_MULTIPLE_NODES=y
# CONFIG_SPARSEMEM_STATIC is not set
CONFIG_SPLIT_PTLOCK_CPUS=4
CONFIG_MIGRATION=y
CONFIG_UNALIGNED_ZONE_BOUNDARIES=y
CONFIG_ADAPTIVE_READAHEAD=y
CONFIG_DEBUG_READAHEAD=y
# CONFIG_READAHEAD_SMOOTH_AGING is not set
CONFIG_HAVE_ARCH_EARLY_PFN_TO_NID=y
CONFIG_OUT_OF_LINE_PFN_TO_PAGE=y
CONFIG_NR_CPUS=255
CONFIG_HOTPLUG_CPU=y
CONFIG_HPET_TIMER=y
CONFIG_HPET_EMULATE_RTC=y
CONFIG_IOMMU=y
```

```
CONFIG_CALGARY_IOMMU=y
CONFIG_SWIOTLB=y
CONFIG_X86_MCE=y
CONFIG_X86_MCE_INTEL=y
CONFIG_X86_MCE_AMD=y
CONFIG_KEXEC=y
CONFIG_CRASH_DUMP=y
CONFIG_PHYSICAL_START=0x1000000
# CONFIG_SECCOMP is not set
# CONFIG_HZ_100 is not set
CONFIG_HZ_250=y
# CONFIG_HZ_1000 is not set
CONFIG_HZ=250
# CONFIG_REORDER is not set
CONFIG_K8_NB=y
CONFIG_GENERIC_HARDIRQS=y
CONFIG_GENERIC_IRQ_PROBE=y
CONFIG_ISA_DMA_API=y
CONFIG_GENERIC_PENDING_IRQ=y

#
# Power management options
#
CONFIG_PM=y
CONFIG_PM_LEGACY=y
CONFIG_PM_DEBUG=y
CONFIG_SOFTWARE_SUSPEND=y
CONFIG_PM_STD_PARTITION=""
CONFIG_SUSPEND_SMP=y

#
# ACPI (Advanced Configuration and Power Interface) Support
#
CONFIG_ACPI=y
CONFIG_ACPI_SLEEP=y
CONFIG_ACPI_SLEEP_PROC_FS=y
# CONFIG_ACPI_SLEEP_PROC_SLEEP is not set
CONFIG_ACPI_AC=m
CONFIG_ACPI_BATTERY=m
CONFIG_ACPI_BUTTON=m
CONFIG_ACPI_VIDEO=m
# CONFIG_ACPI_HOTKEY is not set
CONFIG_ACPI_FAN=y
CONFIG_ACPI_DOCK=y
CONFIG_ACPI_PROCESSOR=y
CONFIG_ACPI_HOTPLUG_CPU=y
CONFIG_ACPI_THERMAL=y
CONFIG_ACPI_NUMA=y
CONFIG_ACPI_ASUS=m
# CONFIG_ACPI_ATLAS is not set
CONFIG_ACPI_IBM=m
```

```
# CONFIG_ACPI_IBM_DOCK is not set
CONFIG_ACPI_TOSHIBA=m
CONFIG_ACPI_SONY=m
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=y

#
# CPU Frequency scaling
#
CONFIG_CPU_FREQ=y
CONFIG_CPU_FREQ_TABLE=y
CONFIG_CPU_FREQ_DEBUG=y
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_POWERNOW_K8=y
CONFIG_X86_POWERNOW_K8_ACPI=y
CONFIG_X86_SPEEDSTEP_CENTRINO=y
CONFIG_X86_SPEEDSTEP_CENTRINO_ACPI=y
CONFIG_X86_ACPI_CPUFREQ=m

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

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

```
#
# 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=m
CONFIG_PCCARD_NONSTATIC=y

#
# PCI Hotplug Support
#
# CONFIG_HOTPLUG_PCI is not set

#
# Executable file formats / Emulations
#
CONFIG_BINFMT_ELF=y
CONFIG_BINFMT_MISC=y
CONFIG_IA32_EMULATION=y
# CONFIG_IA32_AOUT is not set
CONFIG_COMPAT=y
CONFIG_SYSVIPC_COMPAT=y

#
# Networking
#
CONFIG_NET=y

#
# Networking options
#
# CONFIG_NETDEBUG is not set
CONFIG_PACKET=y
CONFIG_PACKET_MMAP=y
CONFIG_UNIX=y
```

```
CONFIG_XFRM=y
CONFIG_XFRM_USER=y
CONFIG_NET_KEY=m
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=y
CONFIG_INET_XFRM_MODE_TUNNEL=y
CONFIG_INET_DIAG=m
CONFIG_INET_TCP_DIAG=m
# CONFIG_TCP_CONG_ADVANCED is not set
CONFIG_TCP_CONG_BIC=y
CONFIG_IPV6=m
CONFIG_IPV6_PRIVACY=y
# CONFIG_IPV6_ROUTER_PREF is not set
CONFIG_INET6_AH=m
CONFIG_INET6_ESP=m
CONFIG_INET6_IPCOMP=m
CONFIG_INET6_XFRM_TUNNEL=m
CONFIG_INET6_TUNNEL=m
CONFIG_INET6_XFRM_MODE_TRANSPORT=m
CONFIG_INET6_XFRM_MODE_TUNNEL=m
CONFIG_IPV6_TUNNEL=m
# CONFIG_NETWORK_SECMARK is not set
# CONFIG_NETFILTER is not set

#
# DCCP Configuration (EXPERIMENTAL)
#
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_CCID3=m
CONFIG_IP_DCCP_TFRC_LIB=m

#
# DCCP Kernel Hacking
#
# CONFIG_IP_DCCP_DEBUG is not set

#
# SCTP Configuration (EXPERIMENTAL)
#
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

#
# TIPC Configuration (EXPERIMENTAL)
#
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=y
# CONFIG_LLC2 is not set
CONFIG_IPX=m
# CONFIG_IPX_INTERN is not set
CONFIG_ATALK=m
CONFIG_DEV_APPLETALK=y
CONFIG_IPDDP=m
CONFIG_IPDDP_ENCAP=y
CONFIG_IPDDP_DECAP=y
# CONFIG_X25 is not set
```

```
# CONFIG_LAPB is not set
CONFIG_NET_DIVERT=y
# CONFIG_ECONET is not set
CONFIG_WAN_ROUTER=m

#
# QoS and/or fair queueing
#
CONFIG_NET_SCHED=y
# CONFIG_NET_SCH_CLK_JIFFIES is not set
CONFIG_NET_SCH_CLK_GETTIMEOFDAY=y
# CONFIG_NET_SCH_CLK_CPU is not set

#
# 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_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 is not set
```

```
CONFIG_NET_CLS_POLICE=y
CONFIG_NET_CLS_IND=y
CONFIG_NET_ESTIMATOR=y

#
# Network testing
#
CONFIG_NET_PKTGEN=m
# CONFIG_HAMRADIO is not set
CONFIG_IRDA=m

#
# IrDA protocols
#
CONFIG_IRLAN=m
CONFIG_IRCOMM=m
# CONFIG_IRDA_ULTRA is not set

#
# IrDA options
#
CONFIG_IRDA_CACHE_LAST_LSAP=y
CONFIG_IRDA_FAST_RR=y
# CONFIG_IRDA_DEBUG is not set

#
# Infrared-port device drivers
#

#
# SIR device drivers
#
CONFIG_IRTTY_SIR=m

#
# Dongle support
#
CONFIG_DONGLE=y
CONFIG_ESI_DONGLE=m
CONFIG_ACTISYS_DONGLE=m
CONFIG_TEKRAM_DONGLE=m
# CONFIG_TOIM3232_DONGLE is not set
CONFIG_LITELINK_DONGLE=m
CONFIG_MA600_DONGLE=m
CONFIG_GIRBIL_DONGLE=m
CONFIG_MCP2120_DONGLE=m
CONFIG_OLD_BELKIN_DONGLE=m
CONFIG_ACT200L_DONGLE=m

#
# Old SIR device drivers
```

```
#  
  
#  
# Old Serial dongle support  
#  
  
#  
# FIR device drivers  
#  
CONFIG_NSC_FIR=m  
CONFIG_WINBOND_FIR=m  
CONFIG_SMC_IRCC_FIR=m  
CONFIG_ALI_FIR=m  
CONFIG_VLSI_FIR=m  
CONFIG_VIA_FIR=m  
CONFIG_BT=m  
CONFIG_BT_L2CAP=m  
CONFIG_BT_SCO=m  
CONFIG_BT_RFCOMM=m  
CONFIG_BT_RFCOMM_TTY=y  
CONFIG_BT_BNEP=m  
CONFIG_BT_BNEP_MC_FILTER=y  
CONFIG_BT_BNEP_PROTO_FILTER=y  
CONFIG_BT_HIDP=m  
  
#  
# Bluetooth device drivers  
#  
CONFIG_BT_HCIUART=m  
CONFIG_BT_HCIUART_H4=y  
CONFIG_BT_HCIUART_BCSP=y  
CONFIG_BT_HCIDL1=m  
CONFIG_BT_HCIBT3C=m  
CONFIG_BT_HCIBLUECARD=m  
CONFIG_BT_HCIBTUART=m  
CONFIG_BT_HCIVHCI=m  
CONFIG_IEEE80211=m  
# CONFIG_IEEE80211_DEBUG is not set  
CONFIG_IEEE80211_CRYPT_WEP=m  
CONFIG_IEEE80211_CRYPT_CCMP=m  
CONFIG_IEEE80211_CRYPT_TKIP=m  
# CONFIG_IEEE80211_SOFTMAC is not set  
CONFIG_WIRELESS_EXT=y  
  
#  
# Device Drivers  
#  
  
#  
# Generic Driver Options  
#
```

```
CONFIG_STANDALONE=y
CONFIG_PREVENT_FIRMWARE_BUILD=y
CONFIG_FW_LOADER=y
# CONFIG_DEBUG_DRIVER is not set
# CONFIG_SYS_HYPERVISOR is not set

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

#
# Memory Technology Devices (MTD)
#
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
CONFIG_MTD_CMDLINE_PARTS=y

#
# User Modules And Translation Layers
#
CONFIG_MTD_CHAR=m
CONFIG_MTD_BLOCK=m
CONFIG_MTD_BLOCK_RO=m
CONFIG_FTL=m
CONFIG_NFTL=m
CONFIG_NFTL_RW=y
CONFIG_INFTL=m
CONFIG_RFD_FTL=m

#
# 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
# CONFIG_MTD_OBSOLETE_CHIPS is not set
```

```
#
# Mapping drivers for chip access
#
CONFIG_MTD_COMPLEX_MAPPINGS=y
# 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_SBC_GXX is not set
# CONFIG_MTD_AMD76XR0M is not set
# CONFIG_MTD_ICHXROM 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_PCI=m
# CONFIG_MTD_PLATRAM is not set
```

```
#
# Self-contained MTD device drivers
#
CONFIG_MTD_PMC551=m
# CONFIG_MTD_PMC551_BUGFIX is not set
# CONFIG_MTD_PMC551_DEBUG is not set
# CONFIG_MTD_SLRAM is not set
# CONFIG_MTD_PHRAM is not set
CONFIG_MTD_MTDDRAM=m
CONFIG_MTD_MTDDRAM_TOTAL_SIZE=4096
CONFIG_MTD_MTDDRAM_ERASE_SIZE=128
CONFIG_MTD_BLOCK2MTD=m
```

```
#
# Disk-On-Chip Device Drivers
#
CONFIG_MTD_DOC2000=m
# CONFIG_MTD_DOC2001 is not set
CONFIG_MTD_DOC2001PLUS=m
CONFIG_MTD_DOCPROBE=m
CONFIG_MTD_DOCECC=m
```

# CONFIG\_MTD\_DOCPROBE\_ADVANCED is not set  
CONFIG\_MTD\_DOCPROBE\_ADDRESS=0

#  
# NAND Flash Device Drivers  
#  
CONFIG\_MTD\_NAND=m  
# CONFIG\_MTD\_NAND\_VERIFY\_WRITE is not set  
# CONFIG\_MTD\_NAND\_ECC\_SMC is not set  
CONFIG\_MTD\_NAND\_IDS=m  
# CONFIG\_MTD\_NAND\_DISKONCHIP is not set  
# CONFIG\_MTD\_NAND\_NANDSIM is not set

#  
# OneNAND Flash Device Drivers  
#  
# CONFIG\_MTD\_ONENAND is not set

#  
# Parallel port support  
#  
CONFIG\_PARPORT=m  
CONFIG\_PARPORT\_PC=m  
CONFIG\_PARPORT\_SERIAL=m  
# CONFIG\_PARPORT\_PC\_FIFO is not set  
# CONFIG\_PARPORT\_PC\_SUPERIO is not set  
CONFIG\_PARPORT\_PC\_PCMCIA=m  
# CONFIG\_PARPORT\_GSC is not set  
# CONFIG\_PARPORT\_AX88796 is not set  
CONFIG\_PARPORT\_1284=y

#  
# 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\_PARIDE=m  
CONFIG\_PARIDE\_PARPORT=m

#  
# Parallel IDE high-level drivers

```
#
CONFIG_PARIDE_PD=m
CONFIG_PARIDE_PCD=m
CONFIG_PARIDE_PF=m
CONFIG_PARIDE_PT=m
CONFIG_PARIDE_PG=m

#
# Parallel IDE protocol modules
#
CONFIG_PARIDE_ATEN=m
CONFIG_PARIDE_BPCK=m
CONFIG_PARIDE_COMM=m
CONFIG_PARIDE_DSTR=m
CONFIG_PARIDE_FIT2=m
CONFIG_PARIDE_FIT3=m
CONFIG_PARIDE_EPAT=m
CONFIG_PARIDE_EPATC8=y
CONFIG_PARIDE_EPIA=m
CONFIG_PARIDE_FRIQ=m
CONFIG_PARIDE_FRPW=m
CONFIG_PARIDE_KBIC=m
CONFIG_PARIDE_KTTI=m
CONFIG_PARIDE_ON20=m
CONFIG_PARIDE_ON26=m
CONFIG_BLK_CPQ_DA=m
CONFIG_BLK_CPQ_CISS_DA=m
CONFIG_CISS_SCSI_TAPE=y
CONFIG_BLK_DEV_DAC960=m
CONFIG_BLK_DEV_UMEM=m
# 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_INITRD=y
CONFIG_CDROM_PKTCDVD=m
CONFIG_CDROM_PKTCDVD_BUFFERS=8
# CONFIG_CDROM_PKTCDVD_WCACHE is not set
CONFIG_ATA_OVER_ETH=m

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

#
```

```
# Please see Documentation/ide.txt for help/info on IDE drives
#
# CONFIG_BLK_DEV_IDE_SATA is not set
# CONFIG_BLK_DEV_HD_IDE is not set
CONFIG_BLK_DEV_IDEDISK=y
CONFIG_IDEDISK_MULTI_MODE=y
CONFIG_BLK_DEV_IDECS=m
CONFIG_BLK_DEV_IDECD=y
# CONFIG_BLK_DEV_IDETAPE is not set
CONFIG_BLK_DEV_IDEFLOPPY=y
CONFIG_BLK_DEV_IDESCSI=m
CONFIG_IDE_TASK_IOCTL=y

#
# IDE chipset support/bugfixes
#
CONFIG_IDE_GENERIC=y
CONFIG_BLK_DEV_CMD640=y
CONFIG_BLK_DEV_CMD640_ENHANCED=y
CONFIG_BLK_DEV_IDEPNP=y
CONFIG_BLK_DEV_IDEPCI=y
CONFIG_IDEPCI_SHARE_IRQ=y
# CONFIG_BLK_DEV_OFFBOARD is not set
CONFIG_BLK_DEV_GENERIC=y
# CONFIG_BLK_DEV_OPTI621 is not set
CONFIG_BLK_DEV_RZ1000=y
CONFIG_BLK_DEV_IDEDMA_PCI=y
# CONFIG_BLK_DEV_IDEDMA_FORCED is not set
CONFIG_IDEDMA_PCI_AUTO=y
# CONFIG_IDEDMA_ONLYDISK is not set
CONFIG_BLK_DEV_AEC62XX=y
CONFIG_BLK_DEV_ALI15X3=y
# CONFIG_WDC_ALI15X3 is not set
CONFIG_BLK_DEV_AMD74XX=y
CONFIG_BLK_DEV_ATIIXP=y
CONFIG_BLK_DEV_CMD64X=y
CONFIG_BLK_DEV_TRIFLEX=y
CONFIG_BLK_DEV_CY82C693=y
CONFIG_BLK_DEV_CS5520=y
CONFIG_BLK_DEV_CS5530=y
CONFIG_BLK_DEV_HPT34X=y
# CONFIG_HPT34X_AUTODMA is not set
CONFIG_BLK_DEV_HPT366=y
# CONFIG_BLK_DEV_SC1200 is not set
CONFIG_BLK_DEV_PIIX=y
CONFIG_BLK_DEV_IT821X=y
# CONFIG_BLK_DEV_NS87415 is not set
CONFIG_BLK_DEV_PDC202XX_OLD=y
# CONFIG_PDC202XX_BURST is not set
CONFIG_BLK_DEV_PDC202XX_NEW=y
CONFIG_BLK_DEV_SVWKS=y
```

```
CONFIG_BLK_DEV_SIIMAGE=y
CONFIG_BLK_DEV_SIS5513=y
CONFIG_BLK_DEV_SLC90E66=y
# CONFIG_BLK_DEV_TRM290 is not set
CONFIG_BLK_DEV_VIA82CXXX=y
# CONFIG_IDE_ARM is not set
CONFIG_BLK_DEV_IDEDMA=y
# CONFIG_IDEDMA_IVB is not set
CONFIG_IDEDMA_AUTO=y
# CONFIG_BLK_DEV_HD is not set

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

#
# SCSI support type (disk, tape, CD-ROM)
#
CONFIG_BLK_DEV_SD=y
CONFIG_CHR_DEV_ST=m
CONFIG_CHR_DEV_OSST=m
CONFIG_BLK_DEV_SR=y
CONFIG_BLK_DEV_SR_VENDOR=y
CONFIG_CHR_DEV_SG=y
CONFIG_CHR_DEV_SCH=m

#
# Some SCSI devices (e.g. CD jukebox) support multiple LUNs
#
CONFIG_SCSI_MULTI_LUN=y
CONFIG_SCSI_CONSTANTS=y
CONFIG_SCSI_LOGGING=y

#
# SCSI Transports
#
CONFIG_SCSI_SPI_ATTRS=y
CONFIG_SCSI_FC_ATTRS=y
CONFIG_SCSI_ISCSI_ATTRS=m
CONFIG_SCSI_SAS_ATTRS=y
# CONFIG_SCSI_SAS_DOMAIN_ATTRS 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_ENABLE_RD_STRM is not set
# CONFIG_AIC79XX_DEBUG_ENABLE is not set
CONFIG_AIC79XX_DEBUG_MASK=0
# CONFIG_AIC79XX_REG_PRETTY_PRINT is not set
# CONFIG_SCSI_AIC94XX 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_SATA=m
CONFIG_SCSI_SATA_AHCI=m
# CONFIG_SCSI_PATA_ALI is not set
# CONFIG_SCSI_PATA_AMD is not set
CONFIG_SCSI_SATA_SVW=m
# CONFIG_SCSI_PATA_TRIFLEX is not set
# CONFIG_SCSI_PATA_MPIIX is not set
# CONFIG_SCSI_PATA_OLDPIIX is not set
CONFIG_SCSI_ATA_PIIX=m
CONFIG_SCSI_SATA_MV=m
# CONFIG_SCSI_PATA_NETCELL is not set
CONFIG_SCSI_SATA_NV=m
# CONFIG_SCSI_PATA_OPTI is not set
CONFIG_SCSI_PDC_ADMA=m
# CONFIG_SCSI_HPTIOP is not set
CONFIG_SCSI_SATA_QSTOR=m
# CONFIG_SCSI_PATA_PDC2027X is not set
CONFIG_SCSI_SATA_PROMISE=m
CONFIG_SCSI_SATA_SX4=m
CONFIG_SCSI_SATA_SIL=m
CONFIG_SCSI_SATA_SIL24=m
# CONFIG_SCSI_PATA_SIL680 is not set
# CONFIG_SCSI_PATA_SIS is not set
CONFIG_SCSI_SATA_SIS=m
CONFIG_SCSI_SATA_ULI=m
# CONFIG_SCSI_PATA_VIA is not set
CONFIG_SCSI_SATA_VIA=m
```

```
CONFIG_SCSI_SATA_VITESSE=m
CONFIG_SCSI_SATA_INTEL_COMBINED=y
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=m
CONFIG_SCSI_PPA=m
CONFIG_SCSI_IMM=m
# CONFIG_SCSI_IZIP_EPP16 is not set
# CONFIG_SCSI_IZIP_SLOW_CTR is not set
# CONFIG_SCSI_STEX is not set
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_LPFC=m
CONFIG_SCSI_DC395x=m
CONFIG_SCSI_DC390T=m
# CONFIG_SCSI_DEBUG is not set
# CONFIG_SCSI_SRP is not set

#
# PCMCIA SCSI adapter support
#
# CONFIG_PCMCIA_FDOMAIN is not set
CONFIG_PCMCIA_QLOGIC=m
CONFIG_PCMCIA_SYM53C500=m

#
# Multi-device support (RAID and LVM)
#
CONFIG_MD=y
CONFIG_BLK_DEV_MD=y
CONFIG_MD_LINEAR=m
CONFIG_MD_RAID0=m
CONFIG_MD_RAID1=m
CONFIG_MD_RAID10=m
# CONFIG_MD_RAID456 is not set
CONFIG_MD_MULTIPATH=m
CONFIG_MD_FAULTY=m
CONFIG_BLK_DEV_DM=y
CONFIG_DM_CRYPT=m
```

```
CONFIG_DM_SNAPSHOT=y
CONFIG_DM_MIRROR=y
CONFIG_DM_ZERO=y
CONFIG_DM_MULTIPATH=m
CONFIG_DM_MULTIPATH_EMCM=m

#
# Fusion MPT device support
#
CONFIG_FUSION=y
CONFIG_FUSION_SPI=y
CONFIG_FUSION_FC=y
CONFIG_FUSION_SAS=y
CONFIG_FUSION_MAX_SGE=40
CONFIG_FUSION_CTL=y
CONFIG_FUSION_LAN=y

#
# IEEE 1394 (FireWire) support
#
CONFIG_IEEE1394=m

#
# Subsystem Options
#
# CONFIG_IEEE1394_VERBOSEDEBUG is not set
CONFIG_IEEE1394_OUI_DB=y
CONFIG_IEEE1394_EXTRA_CONFIG_ROMS=y
CONFIG_IEEE1394_CONFIG_ROM_IP1394=y
# CONFIG_IEEE1394_EXPORT_FULL_API is not set

#
# Device Drivers
#

#
# Texas Instruments PCILynx requires I2C
#
CONFIG_IEEE1394_OHCI1394=m

#
# Protocol Drivers
#
CONFIG_IEEE1394_VIDEO1394=m
CONFIG_IEEE1394_SBP2=m
# CONFIG_IEEE1394_SBP2_PHYS_DMA is not set
CONFIG_IEEE1394_ETH1394=m
CONFIG_IEEE1394_DV1394=m
CONFIG_IEEE1394_RAWIO=m

#
```

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

#
# Network device support
#
CONFIG_NETDEVICES=y
CONFIG_DUMMY=m
CONFIG_BONDING=m
CONFIG_EQUALIZER=m
CONFIG_TUN=m
CONFIG_NET_SB1000=m

#
# ARCnet devices
#
# CONFIG_ARCNET is not set

#
# PHY device support
#
CONFIG_PHYLIB=m

#
# MII PHY device drivers
#
CONFIG_MARVELL_PHY=m
CONFIG_DAVICOM_PHY=m
CONFIG_QSEMI_PHY=m
CONFIG_LXT_PHY=m
CONFIG_CICADA_PHY=m
# CONFIG_SMSC_PHY is not set

#
# Ethernet (10 or 100Mbit)
#
CONFIG_NET_ETHERNET=y
CONFIG_MII=m
CONFIG_HAPPYMEAL=m
CONFIG_SUNGEM=m
CONFIG_CASSINI=m
CONFIG_NET_VENDOR_3COM=y
CONFIG_VORTEX=m
CONFIG_TYPHOON=m

#
# Tulip family network device support
#
CONFIG_NET_TULIP=y
CONFIG_DE2104X=m
```

```
CONFIG_TULIP=m
# CONFIG_TULIP_MWI is not set
CONFIG_TULIP_MMIO=y
# CONFIG_TULIP_NAPI is not set
CONFIG_DE4X5=m
CONFIG_WINBOND_840=m
CONFIG_DM9102=m
CONFIG_ULI526X=m
CONFIG_PCMCIA_XIRCOM=m
# CONFIG_HP100 is not set
CONFIG_NET_PCI=y
CONFIG_PCNET32=m
CONFIG_AMD8111_ETH=m
CONFIG_AMD8111E_NAPI=y
CONFIG_ADAPTEC_STARFIRE=m
CONFIG_ADAPTEC_STARFIRE_NAPI=y
CONFIG_B44=m
CONFIG_FORCEDETH=m
CONFIG_DGRS=m
# CONFIG_EEPRO100 is not set
CONFIG_E100=m
CONFIG_FEALNX=m
CONFIG_NATSEMI=m
CONFIG_NE2K_PCI=m
CONFIG_8139CP=m
CONFIG_8139TOO=m
# CONFIG_8139TOO_PIO is not set
# CONFIG_8139TOO_TUNE_TWISTER is not set
CONFIG_8139TOO_8129=y
# CONFIG_8139_OLD_RX_RESET is not set
CONFIG_SIS900=m
CONFIG_EPIC100=m
CONFIG_SUNDANCE=m
# CONFIG_SUNDANCE_MMIO is not set
CONFIG_VIA_RHINE=m
CONFIG_VIA_RHINE_MMIO=y
CONFIG_NET_POCKET=y
CONFIG_ATP=m
CONFIG_DE600=m
CONFIG_DE620=m

#
# Ethernet (1000 Mbit)
#
CONFIG_ACENIC=m
# CONFIG_ACENIC_OMIT_TIGON_I is not set
CONFIG_DL2K=m
CONFIG_E1000=m
CONFIG_E1000_NAPI=y
# CONFIG_E1000_DISABLE_PACKET_SPLIT is not set
CONFIG_NS83820=m
```

```
CONFIG_HAMACHI=m
CONFIG_YELLOWFIN=m
CONFIG_R8169=m
CONFIG_R8169_NAPI=y
CONFIG_R8169_VLAN=y
CONFIG_SIS190=m
CONFIG_SKGE=m
CONFIG_SKY2=m
# CONFIG_SK98LIN is not set
CONFIG_VIA_VELOCITY=m
CONFIG_TIGON3=y
CONFIG_BNX2=m

#
# Ethernet (10000 Mbit)
#
CONFIG_CHELSIO_T1=m
CONFIG_IXGB=m
CONFIG_IXGB_NAPI=y
CONFIG_S2IO=m
CONFIG_S2IO_NAPI=y
# CONFIG_MYRI10GE is not set

#
# Token Ring devices
#
CONFIG_TR=y
CONFIG_IBMOL=m
CONFIG_3C359=m
# CONFIG_TMS380TR is not set

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

#
# Obsolete Wireless cards support (pre-802.11)
#
# CONFIG_STRIP is not set
CONFIG_PCMCIA_WAVELAN=m
CONFIG_PCMCIA_NETWAVE=m

#
# Wireless 802.11 Frequency Hopping cards support
#
# CONFIG_PCMCIA_RAYCS is not set

#
# Wireless 802.11b ISA/PCI cards support
```

```
#
CONFIG_IPW2100=m
CONFIG_IPW2100_MONITOR=y
# CONFIG_IPW2100_DEBUG is not set
CONFIG_IPW2200=m
# CONFIG_IPW2200_MONITOR is not set
# CONFIG_IPW2200_QOS is not set
# CONFIG_IPW2200_DEBUG is not set
CONFIG_AIRO=m
CONFIG_HERMES=m
CONFIG_PLX_HERMES=m
CONFIG_TMD_HERMES=m
CONFIG_NORTEL_HERMES=m
CONFIG_PCI_HERMES=m
CONFIG_ATMEL=m
CONFIG_PCI_ATMEL=m

#
# Wireless 802.11b Pcmcia/Cardbus cards support
#
CONFIG_PCMCIA_HERMES=m
CONFIG_PCMCIA_SPECTRUM=m
CONFIG_AIRO_CS=m
CONFIG_PCMCIA_ATMEL=m
CONFIG_PCMCIA_WL3501=m

#
# Prism GT/Duette 802.11(a/b/g) PCI/Cardbus support
#
CONFIG_PRISM54=m
CONFIG_HOSTAP=m
CONFIG_HOSTAP_FIRMWARE=y
CONFIG_HOSTAP_FIRMWARE_NVRAM=y
CONFIG_HOSTAP_PLX=m
CONFIG_HOSTAP_PCI=m
CONFIG_HOSTAP_CS=m
# CONFIG_ACX is not set
CONFIG_NET_WIRELESS=y

#
# PCMCIA network device support
#
CONFIG_NET_PCMCIA=y
CONFIG_PCMCIA_3C589=m
CONFIG_PCMCIA_3C574=m
CONFIG_PCMCIA_FMVJ18X=m
CONFIG_PCMCIA_PCNET=m
CONFIG_PCMCIA_NMCLAN=m
CONFIG_PCMCIA_SMC91C92=m
CONFIG_PCMCIA_XIRC2PS=m
CONFIG_PCMCIA_AXNET=m
```

```
#
# Wan interfaces
#
# CONFIG_WAN is not set

#
# ATM drivers
#
# CONFIG_ATM_DUMMY is not set
CONFIG_ATM_TCP=m
CONFIG_ATM_LANAI=m
CONFIG_ATM_ENI=m
# CONFIG_ATM_ENI_DEBUG is not set
# CONFIG_ATM_ENI_TUNE_BURST is not set
CONFIG_ATM_FIRESTREAM=m
# CONFIG_ATM_ZATM is not set
CONFIG_ATM_IDT77252=m
# CONFIG_ATM_IDT77252_DEBUG is not set
# CONFIG_ATM_IDT77252_RCV_ALL is not set
CONFIG_ATM_IDT77252_USE_SUNI=y
CONFIG_ATM_AMBASSADOR=m
# CONFIG_ATM_AMBASSADOR_DEBUG is not set
CONFIG_ATM_HORIZON=m
# CONFIG_ATM_HORIZON_DEBUG is not set
CONFIG_ATM_FORE200E_MAYBE=m
# CONFIG_ATM_FORE200E_PCA is not set
CONFIG_ATM_HE=m
# CONFIG_ATM_HE_USE_SUNI is not set
CONFIG_FDDI=y
# CONFIG_DEFXX is not set
CONFIG_SKFP=m
# CONFIG_HIPPI is not set
CONFIG_PLIP=m
# CONFIG_PPP is not set
CONFIG_SLIP=m
CONFIG_SLIP_COMPRESSED=y
CONFIG_SLIP_SMART=y
# CONFIG_SLIP_MODE_SLIP6 is not set
CONFIG_NET_FC=y
# CONFIG_SHAPER is not set
CONFIG_NETCONSOLE=m
CONFIG_NETPOLL=y
# CONFIG_NETPOLL_RX is not set
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_EFFECTS is not set

#
# Userland interfaces
#
CONFIG_INPUT_MOUSEDEV=y
CONFIG_INPUT_MOUSEDEV_PSAUX=y
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_INPUT_MOUSE is not set
# CONFIG_INPUT_JOYSTICK is not set
# CONFIG_INPUT_TOUCHSCREEN is not set
# CONFIG_INPUT_MISC is not set

#
# Hardware I/O ports
#
CONFIG_SERIO=y
CONFIG_SERIO_I8042=y
CONFIG_SERIO_SERPORT=y
# CONFIG_SERIO_CT82C710 is not set
# CONFIG_SERIO_PARKBD is not set
# CONFIG_SERIO_PCIPS2 is not set
CONFIG_SERIO_LIBPS2=y
# CONFIG_SERIO_RAW is not set
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_SERIAL_NONSTANDARD 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 is not set
CONFIG_SERIAL_8250_NR_UARTS=4
CONFIG_SERIAL_8250_RUNTIME_UARTS=4
# CONFIG_SERIAL_8250_EXTENDED is not set

#
# Non-8250 serial port support
#
CONFIG_SERIAL_CORE=y
CONFIG_SERIAL_CORE_CONSOLE=y
# CONFIG_SERIAL_JSM is not set
CONFIG_UNIX98_PTYS=y
# CONFIG_LEGACY_PTYS is not set
CONFIG_PRINTER=m
CONFIG_LP_CONSOLE=y
CONFIG_PPDEV=m
CONFIG_TIPAR=m

#
# 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

#
# Watchdog Cards
#
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_I8XX_TCO=m
# CONFIG_ITCO_WDT is not set
# CONFIG_SC1200_WDT is not set
# CONFIG_60XX_WDT is not set
# CONFIG_SBC8360_WDT is not set
# CONFIG_CPU5_WDT is not set
CONFIG_W83627HF_WDT=m
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=y
CONFIG_HW_RANDOM_AMD=y
CONFIG_HW_RANDOM_GEODE=y
CONFIG_NVRAM=m
CONFIG_RTC=y
CONFIG_DTLK=m
CONFIG_R3964=m
# CONFIG_APPLICOM is not set

#
# Ftape, the floppy tape device driver
#
CONFIG_AGP=y
CONFIG_AGP_AMD64=y
CONFIG_AGP_INTEL=y
# CONFIG_AGP_SIS is not set
```

```
# CONFIG_AGP_VIA is not set
# CONFIG_DRM is not set

#
# PCMCIA character devices
#
# CONFIG_SYNCLINK_CS is not set
CONFIG_CARDMAN_4000=m
CONFIG_CARDMAN_4040=m
CONFIG_MWAVE=m
# CONFIG_RAW_DRIVER is not set
CONFIG_HPET=y
# CONFIG_HPET_RTC_IRQ is not set
# CONFIG_HPET_MMAP is not set
CONFIG_HANGCHECK_TIMER=m

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

#
# I2C support
#
# CONFIG_I2C is not set

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

#
# Dallas's 1-wire bus
#
CONFIG_W1=m
CONFIG_W1_CON=y

#
# 1-wire Bus Masters
#
# CONFIG_W1_MASTER_MATROX is not set

#
# 1-wire Slaves
#
# CONFIG_W1_SLAVE_THERM is not set
# CONFIG_W1_SLAVE_SMEM is not set
# CONFIG_W1_SLAVE_DS2433 is not set
```

```
#  
# Hardware Monitoring support  
#  
CONFIG_HWMON=m  
# CONFIG_HWMON_VID is not set  
CONFIG_SENSORS_F71805F=m  
CONFIG_SENSORS_HDAPS=m  
# CONFIG_HWMON_DEBUG_CHIP is not set
```

```
#  
# Misc devices  
#  
# CONFIG_IBM_ASM is not set
```

```
#  
# Multimedia devices  
#  
# CONFIG_VIDEO_DEV is not set  
CONFIG_VIDEO_V4L2=y
```

```
#  
# Digital Video Broadcasting Devices  
#  
CONFIG_DVB=y  
CONFIG_DVB_CORE=m
```

```
#  
# Supported DVB Frontends  
#
```

```
#  
# Customise DVB Frontends  
#
```

```
#  
# DVB-S (satellite) frontends  
#  
CONFIG_DVB_STV0299=m  
CONFIG_DVB_CX24110=m  
CONFIG_DVB_CX24123=m  
CONFIG_DVB_TDA8083=m  
CONFIG_DVB_MT312=m  
CONFIG_DVB_VES1X93=m  
CONFIG_DVB_S5H1420=m
```

```
#  
# DVB-T (terrestrial) frontends  
#  
CONFIG_DVB_SP8870=m  
CONFIG_DVB_SP887X=m  
CONFIG_DVB_CX22700=m
```

```
CONFIG_DVB_CX22702=m
CONFIG_DVB_L64781=m
CONFIG_DVB_TDA1004X=m
CONFIG_DVB_NXT6000=m
CONFIG_DVB_MT352=m
# CONFIG_DVB_ZL10353 is not set
CONFIG_DVB_DIB3000MB=m
CONFIG_DVB_DIB3000MC=m

#
# DVB-C (cable) frontends
#
CONFIG_DVB_VES1820=m
CONFIG_DVB_TDA10021=m
CONFIG_DVB_STV0297=m

#
# ATSC (North American/Korean Terrestrial/Cable DTV) frontends
#
CONFIG_DVB_NXT200X=m
CONFIG_DVB_OR51211=m
CONFIG_DVB_OR51132=m
CONFIG_DVB_BCM3510=m
CONFIG_DVB_LGDT330X=m

#
# Miscellaneous devices
#
# CONFIG_DVB_LNBP21 is not set
# CONFIG_DVB_ISL6421 is not set

#
# Graphics support
#
CONFIG_FIRMWARE_EDID=y
# CONFIG_FB is not set

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

#
# Sound
#
# CONFIG_SOUND 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

#
# MMC/SD Card support
#
CONFIG_MMC=m
# CONFIG_MMC_DEBUG is not set
CONFIG_MMC_BLOCK=m
# CONFIG_MMC_SDHCI is not set
CONFIG_MMC_WBSD=m

#
# LED devices
#
# CONFIG_NEW_LEDS is not set

#
# LED drivers
#

#
# LED Triggers
#

#
# InfiniBand support
#
CONFIG_INFINIBAND=m
CONFIG_INFINIBAND_USER_MAD=m
CONFIG_INFINIBAND_USER_ACCESS=m
CONFIG_INFINIBAND_ADDR_TRANS=y
CONFIG_INFINIBAND_MTHCA=m
CONFIG_INFINIBAND_MTHCA_DEBUG=y
CONFIG_INFINIBAND_IPOIB=m
CONFIG_INFINIBAND_IPOIB_DEBUG=y
# CONFIG_INFINIBAND_IPOIB_DEBUG_DATA is not set
CONFIG_INFINIBAND_SRP=m
```

```
# CONFIG_INFINIBAND_USER is not set

#
# 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_E752X=m
CONFIG_EDAC_POLL=y

#
# Real Time Clock
#
# CONFIG_RTC_CLASS is not set

#
# DMA Engine support
#
# CONFIG_DMA_ENGINE is not set

#
# DMA Clients
#

#
# DMA Devices
#

#
# Firmware Drivers
#
CONFIG_EDD=m
CONFIG_DELL_RBU=m
CONFIG_DCDBAS=m

#
# 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 is not set
CONFIG_EXT3_FS=y
CONFIG_EXT3_FS_XATTR=y
CONFIG_EXT3_FS_POSIX_ACL=y
```

```
CONFIG_EXT3_FS_SECURITY=y
CONFIG_JBD=y
# CONFIG_JBD_DEBUG is not set
CONFIG_FS_MBCACHE=y
# CONFIG_REISER4_FS is not set
CONFIG_REISERFS_FS=y
# CONFIG_REISERFS_CHECK is not set
CONFIG_REISERFS_PROC_INFO=y
# 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=m
CONFIG_MINIX_FS=m
CONFIG_ROMFS_FS=m
CONFIG_INOTIFY=y
CONFIG_INOTIFY_USER=y
CONFIG_QUOTA=y
# CONFIG_QFMT_V1 is not set
CONFIG_QFMT_V2=y
CONFIG_QUOTACTL=y
CONFIG_DNOTIFY=y
# CONFIG_AUTOFS_FS is not set
CONFIG_AUTOFS4_FS=y
CONFIG_FUSE_FS=m

#
# CD-ROM/DVD Filesystems
#
# CONFIG_ISO9660_FS is not set
# CONFIG_UDF_FS is not set

#
# 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_SYSFS=y
CONFIG_TMPFS=y
```

```
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_ECRYPT_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=m
CONFIG_EFS_FS=m
# CONFIG_JFFS_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=m
CONFIG_SYSV_FS=m
CONFIG_UFS_FS=m
# CONFIG_UFS_FS_WRITE is not set

#
# Network File Systems
#
# CONFIG_NFS_FS is not set
# CONFIG_NFSD is not set
# CONFIG_SMB_FS is not set
# CONFIG_CIFS is not set
# CONFIG_CIFS_DEBUG2 is not set
CONFIG_NCP_FS=m
CONFIG_NCPFS_PACKET_SIGNING=y
CONFIG_NCPFS_IOCTL_LOCKING=y
CONFIG_NCPFS_STRONG=y
CONFIG_NCPFS_NFS_NS=y
CONFIG_NCPFS_OS2_NS=y
CONFIG_NCPFS_SMALLDOS=y
CONFIG_NCPFS_NLS=y
CONFIG_NCPFS_EXTRAS=y
CONFIG_CODA_FS=m
# CONFIG_CODA_FS_OLD_API 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
```

```
#
# 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 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_MAGIC_SYSRQ=y
CONFIG_UNUSED_SYMBOLS=y
# CONFIG_DEBUG_SHIRQ is not set
CONFIG_DEBUG_KERNEL=y
CONFIG_LOG_BUF_SHIFT=17
CONFIG_DETECT_SOFTLOCKUP=y
# CONFIG_SCHEDSTATS is not set
# CONFIG_DEBUG_SLAB is not set
# CONFIG_DEBUG_MUTEXES is not set
CONFIG_DEBUG_RT_MUTEXES=y
CONFIG_DEBUG_PI_LIST=y
# CONFIG_RT_MUTEX_TESTER is not set
CONFIG_DEBUG_SPINLOCK=y
# CONFIG_PROVE_SPIN_LOCKING is not set
# CONFIG_PROVE_RW_LOCKING is not set
# CONFIG_PROVE_MUTEX_LOCKING is not set
# CONFIG_PROVE_RWSEM_LOCKING is not set
CONFIG_DEBUG_SPINLOCK_SLEEP=y
CONFIG_DEBUG_LOCKING_API_SELFTESTS=y
# CONFIG_DEBUG_KOBJECT is not set
CONFIG_DEBUG_INFO=y
# CONFIG_PAGE_OWNER is not set
CONFIG_DEBUG_FS=y
```

```
# CONFIG_DEBUG_VM is not set
# CONFIG_FRAME_POINTER is not set
# CONFIG_UNWIND_INFO is not set
# CONFIG_FORCED_INLINING is not set
# CONFIG_DEBUG_SYNCHRO_TEST is not set
# CONFIG_RCU_TORTURE_TEST is not set
# CONFIG_PROFILE_LIKELY is not set
# CONFIG_WANT_EXTRA_DEBUG_INFORMATION is not set
CONFIG_DEBUG_RODATA=y
# CONFIG_IOMMU_DEBUG is not set
```

```
#
# Security options
#
CONFIG_KEYS=y
CONFIG_KEYS_DEBUG_PROC_KEYS=y
CONFIG_SECURITY=y
CONFIG_SECURITY_NETWORK=y
CONFIG_SECURITY_NETWORK_XFRM=y
CONFIG_SECURITY_CAPABILITIES=y
# CONFIG_SECURITY_SECLVL is not set
# CONFIG_SECURITY_SELINUX is not set
```

```
#
# Cryptographic options
#
CONFIG_CRYPT=y
CONFIG_CRYPT_HMAC=y
CONFIG_CRYPT_NULL=m
CONFIG_CRYPT_MD4=m
CONFIG_CRYPT_MD5=y
CONFIG_CRYPT_SHA1=y
CONFIG_CRYPT_SHA256=m
CONFIG_CRYPT_SHA512=m
CONFIG_CRYPT_WP512=m
CONFIG_CRYPT_TGR192=m
CONFIG_CRYPT_DES=m
CONFIG_CRYPT_BLOWFISH=m
CONFIG_CRYPT_TWOFISH=m
CONFIG_CRYPT_SERPENT=m
CONFIG_CRYPT_AES=m
CONFIG_CRYPT_AES_X86_64=m
CONFIG_CRYPT_CAST5=m
CONFIG_CRYPT_CAST6=m
CONFIG_CRYPT_TEA=m
CONFIG_CRYPT_ARC4=m
CONFIG_CRYPT_KHAZAD=m
CONFIG_CRYPT_ANUBIS=m
CONFIG_CRYPT_DEFLATE=m
CONFIG_CRYPT_MICHAEL_MIC=m
CONFIG_CRYPT_CRC32C=m
```

# CONFIG\_CRYPTOTO\_TEST is not set

#

# Hardware crypto devices

#

#

# Library routines

#

CONFIG\_CRC\_CCITT=m

CONFIG\_CRC16=m

CONFIG\_CRC32=y

CONFIG\_LIBCRC32C=m

CONFIG\_ZLIB\_INFLATE=m

CONFIG\_ZLIB\_DEFLATE=m

CONFIG\_TEXTSEARCH=y

CONFIG\_TEXTSEARCH\_KMP=m

CONFIG\_TEXTSEARCH\_BM=m

CONFIG\_TEXTSEARCH\_FSM=m

CONFIG\_PLIST=y