

## [SPARC] Problem with "Happy Meal" drivers

*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-01/2694.html>

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*Date:* 01/10/04

To: <davem@redhat.com>

Date: Sat, 10 Jan 2004 21:39:08 +0100

Hello,

I'm using a Sun Ultra (sparc64) which is running under the kernel 2.4.24-SMP. I also use two network cards handled by your driver (sunhme) : A SunSwift (eth1) which is connected to my LAN and the onboard card (eth0) which is connected to the internet thru PPPoE. Im using this machine as a small gateway.

Unfortunately, i've got a very annoying problem : when all the computers of the network are switched off – the gateway remaining the only active computer on the LAN – it is irremediably crashing. So I switch on one PC, connect to the console port (the network isn't working anymore) and then type 'return', i get into the PROM and type 'go' and get this message :

eth1: Happy Meal out of receive descriptors, packet dropped.

I type 'return' again and the computer doesn't react anymore, I can't even access the PROM. Further more, when I reboot, this message doesn't appears in the logs. By the way, between the last computer's switch off and the reboot of the gateway, nothing at all appears in the logs, which comfort me in the idea that the computer has totally crashed.

Moreover, switching the network cards has no effects – the result is the same when the Sunswift is connected to the LAN, which leads my suspicions to the driver.

My network is composed of a 8 ports switch 100mbps which connects a PC, a laptop and the sparc. I tried to apply the patch which adds "udelay(1)" to the line 1983 (found at <http://sparclinux.net/pub/patches/U1-hme-lockup.patch>) but it doesn't change anything and the problem stays the same.

Here are a few informations that might help you :

My Kernel configuration :

#

# Automatically generated by make menuconfig: don't edit

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```
#  
  
#  
# Code maturity level options  
#  
CONFIG_EXPERIMENTAL=y  
  
#  
# Loadable module support  
#  
CONFIG_MODULES=y  
CONFIG_MODVERSIONS=y  
CONFIG_KMOD=y  
  
#  
# General setup  
#  
# CONFIG_BBC_I2C is not set  
CONFIG_VT=y  
CONFIG_VT_CONSOLE=y  
CONFIG_SMP=y  
CONFIG_NR_CPUS=32  
CONFIG_SPARC64=y  
CONFIG_HOTPLUG=y  
CONFIG_HAVE_DEC_LOCK=y  
# CONFIG_RWSEM_GENERIC_SPINLOCK is not set  
CONFIG_RWSEM_XCHGADD_ALGORITHM=y  
# CONFIG_ISA is not set  
# CONFIG_ISAPNP is not set  
# CONFIG_EISA is not set  
# CONFIG_MCA is not set  
# CONFIG_PCMCIA is not set  
CONFIG_SBUS=y  
CONFIG_SBUSCHAR=y  
CONFIG_BUSMOUSE=y  
CONFIG_SUN_MOUSE=y  
CONFIG_SERIAL=y  
CONFIG_SUN_SERIAL=y  
CONFIG_SERIAL_CONSOLE=y  
CONFIG_SUN_KEYBOARD=y  
CONFIG_SUN_CONSOLE=y  
CONFIG_SUN_AUXIO=y  
CONFIG_SUN_IO=y  
# CONFIG_PCI is not set  
CONFIG_SUN_OPENPROMFS=y  
CONFIG_NET=y  
CONFIG_SYSVIPC=y  
# CONFIG_BSD_PROCESS_ACCT is not set  
CONFIG_SYSCTL=y  
CONFIG_KCORE_ELF=y  
CONFIG_SPARC32_COMPAT=y
```

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```
CONFIG_BINFMT_ELF32=y
# CONFIG_BINFMT_AOUT32 is not set
CONFIG_BINFMT_ELF=y
CONFIG_BINFMT_MISC=m
# CONFIG_SUNOS_EMUL is not set
# CONFIG_SOLARIS_EMUL is not set

#
# Parallel port support
#
CONFIG_PARPORT=m
CONFIG_PARPORT_PC=m
CONFIG_PARPORT_PC_CML1=m
# CONFIG_PARPORT_SERIAL is not set
CONFIG_PARPORT_PC_FIFO=y
# CONFIG_PARPORT_PC_SUPERIO is not set
# CONFIG_PARPORT_AMIGA is not set
# CONFIG_PARPORT_MFC3 is not set
# CONFIG_PARPORT_ATARI is not set
# CONFIG_PARPORT_GSC is not set
# CONFIG_PARPORT_SUNBPP is not set
# CONFIG_PARPORT_OTHER is not set
CONFIG_PARPORT_1284=y
# CONFIG_PRINTER is not set

#
# Console drivers
#
CONFIG_PROM_CONSOLE=y

#
# Frame-buffer support
#
CONFIG_FB=y
CONFIG_DUMMY_CONSOLE=y
# CONFIG_FB_CYBER2000 is not set
CONFIG_FB_SBUS=y
CONFIG_FB_CREATOR=y
CONFIG_FB_CGSI6=y
# CONFIG_FB_BWTWO is not set
# CONFIG_FB_CGTHREE is not set
# CONFIG_FB_LEO is not set
# CONFIG_FB_VIRTUAL is not set
# CONFIG_FBCON_ADVANCED is not set
CONFIG_FBCON_CFB8=y
CONFIG_FBCON_CFB16=y
CONFIG_FBCON_CFB24=y
CONFIG_FBCON_CFB32=y
CONFIG_FBCON_FONTWIDTH8_ONLY=y
CONFIG_FONT_SUN8x16=y
# CONFIG_FBCON_FONTS is not set
```

## Linux-Kernel: [SPARC] Problem with "Happy Meal" drivers

```
#
# Misc Linux/SPARC drivers
#
CONFIG_SUN_OPENPROMIO=y
CONFIG_SUN_MOSTEK_RTC=y
# CONFIG_OBP_FLASH is not set
# CONFIG_SUN_BPP is not set
# CONFIG_SUN_VIDEOPIX is not set
CONFIG_SUN_AURORA=m

#
# Linux/SPARC audio subsystem (EXPERIMENTAL)
#
# CONFIG_SPARCAUDIO is not set
# CONFIG_SPARCAUDIO_CS4231 is not set
# CONFIG_SPARCAUDIO_DUMMY is not set

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

#
# Block devices
#
# CONFIG_BLK_DEV_FD is not set
CONFIG_BLK_DEV_LOOP=m
CONFIG_BLK_DEV_NBD=m

#
# Multi-device support (RAID and LVM)
#
CONFIG_MD=y
CONFIG_BLK_DEV_MD=m
CONFIG_MD_LINEAR=m
CONFIG_MD_RAID0=m
CONFIG_MD_RAID1=m
CONFIG_MD_RAID5=m
CONFIG_MD_MULTIPATH=m
CONFIG_BLK_DEV_LVM=m
CONFIG_BLK_DEV_RAM=m
CONFIG_BLK_DEV_RAM_SIZE=4096
# CONFIG_BLK_DEV_INITRD is not set

#
# Networking options
#
CONFIG_PACKET=y
CONFIG_PACKET_MMAP=y
CONFIG_NETLINK_DEV=y
CONFIG_NETFILTER=y
```

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```
# CONFIG_NETFILTER_DEBUG is not set
CONFIG_FILTER=y
CONFIG_UNIX=y
CONFIG_INET=y
CONFIG_IP_MULTICAST=y
CONFIG_IP_ADVANCED_ROUTER=y
# CONFIG_IP_MULTIPLE_TABLES is not set
# CONFIG_IP_ROUTE_MULTIPATH is not set
# CONFIG_IP_ROUTE_TOS is not set
# CONFIG_IP_ROUTE_VERBOSE is not set
# 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=y
CONFIG_INET_ECN=y
# CONFIG_SYN_COOKIES is not set

#
# IP: Netfilter Configuration
#
CONFIG_IP_NF_CONNTRACK=y
CONFIG_IP_NF_FTP=y
CONFIG_IP_NF_AMANDA=y
CONFIG_IP_NF_TFTP=y
CONFIG_IP_NF_IRC=y
CONFIG_IP_NF_QUEUE=y
CONFIG_IP_NF_IPTABLES=y
CONFIG_IP_NF_MATCH_LIMIT=y
CONFIG_IP_NF_MATCH_MAC=y
CONFIG_IP_NF_MATCH_PKTTYPE=y
CONFIG_IP_NF_MATCH_MARK=y
CONFIG_IP_NF_MATCH_MULTIPORT=y
CONFIG_IP_NF_MATCH_TOS=y
CONFIG_IP_NF_MATCH_RECENT=y
CONFIG_IP_NF_MATCH_ECN=y
CONFIG_IP_NF_MATCH_DSCP=y
CONFIG_IP_NF_MATCH_AH_ESP=y
CONFIG_IP_NF_MATCH_LENGTH=y
CONFIG_IP_NF_MATCH_TTL=y
CONFIG_IP_NF_MATCH_TCPMSS=y
CONFIG_IP_NF_MATCH_HELPER=y
CONFIG_IP_NF_MATCH_STATE=y
CONFIG_IP_NF_MATCH_CONNTRACK=y
CONFIG_IP_NF_MATCH_UNCLEAN=y
CONFIG_IP_NF_MATCH_OWNER=y
CONFIG_IP_NF_FILTER=y
CONFIG_IP_NF_TARGET_REJECT=y
```

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```
CONFIG_IP_NF_TARGET_MIRROR=y
CONFIG_IP_NF_NAT=y
CONFIG_IP_NF_NAT_NEEDED=y
CONFIG_IP_NF_TARGET_MASQUERADE=y
CONFIG_IP_NF_TARGET_REDIRECT=y
CONFIG_IP_NF_NAT_AMANDA=y
CONFIG_IP_NF_NAT_LOCAL=y
CONFIG_IP_NF_NAT_SNMP_BASIC=y
CONFIG_IP_NF_NAT_IRC=y
CONFIG_IP_NF_NAT_FTP=y
CONFIG_IP_NF_NAT_TFTP=y
CONFIG_IP_NF_MANGLE=y
CONFIG_IP_NF_TARGET_TOS=y
CONFIG_IP_NF_TARGET_ECN=y
CONFIG_IP_NF_TARGET_DSCP=y
CONFIG_IP_NF_TARGET_MARK=y
CONFIG_IP_NF_TARGET_LOG=y
CONFIG_IP_NF_TARGET_ULOG=y
CONFIG_IP_NF_TARGET_TCPMSS=y
CONFIG_IP_NF_ARPTABLES=y
CONFIG_IP_NF_ARPFILTER=y
CONFIG_IP_NF_ARP_MANGLE=y
```

```
#
# IP: Virtual Server Configuration
#
# CONFIG_IP_VS is not set
CONFIG_IPV6=m
```

```
#
# IPv6: Netfilter Configuration
#
CONFIG_IP6_NF_QUEUE=m
CONFIG_IP6_NF_IPTABLES=m
CONFIG_IP6_NF_MATCH_LIMIT=m
CONFIG_IP6_NF_MATCH_MAC=m
CONFIG_IP6_NF_MATCH_RT=m
CONFIG_IP6_NF_MATCH_OPTS=m
CONFIG_IP6_NF_MATCH_FRAG=m
CONFIG_IP6_NF_MATCH_HL=m
CONFIG_IP6_NF_MATCH_MULTIPORT=m
CONFIG_IP6_NF_MATCH_OWNER=m
CONFIG_IP6_NF_MATCH_MARK=m
CONFIG_IP6_NF_MATCH_IPV6HEADER=m
CONFIG_IP6_NF_MATCH_AHESP=m
CONFIG_IP6_NF_MATCH_LENGTH=m
CONFIG_IP6_NF_MATCH_EUI64=m
CONFIG_IP6_NF_FILTER=m
CONFIG_IP6_NF_TARGET_LOG=m
CONFIG_IP6_NF_MANGLE=m
CONFIG_IP6_NF_TARGET_MARK=m
```

## Linux-Kernel: [SPARC] Problem with "Happy Meal" drivers

```
# CONFIG_KHTTPD is not set

#
# SCTP Configuration (EXPERIMENTAL)
#
CONFIG_IPV6_SCTP__=m
CONFIG_IP_SCTP=m
# CONFIG_SCTP_ADLER32 is not set
# CONFIG_SCTP_DBG_MSG is not set
# CONFIG_SCTP_DBG_OBJCNT is not set
# CONFIG_ATM is not set
# CONFIG_VLAN_8021Q is not set
# CONFIG_IPX is not set
# CONFIG_ATALK is not set

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

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

#
# Network testing
#
# CONFIG_NET_PKTGEN is not set

#
# ATA/IDE/MFM/RLL support
#
# CONFIG_IDE is not set
# CONFIG_BLK_DEV_IDE_MODES is not set
# CONFIG_BLK_DEV_HD is not set

#
# SCSI support
#
CONFIG_SCSI=y
```

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```
CONFIG_BLK_DEV_SD=y
CONFIG_SD_EXTRA_DEVS=40
CONFIG_CHR_DEV_ST=y
CONFIG_CHR_DEV_OSST=m
CONFIG_BLK_DEV_SR=y
CONFIG_BLK_DEV_SR_VENDOR=y
CONFIG_SR_EXTRA_DEVS=2
CONFIG_CHR_DEV_SG=m
CONFIG_SCSI_MULTI_LUN=y
CONFIG_SCSI_CONSTANTS=y
# CONFIG_SCSI_LOGGING is not set

#
# SCSI low-level drivers
#
CONFIG_SCSI_SUNESP=y
CONFIG_SCSI_QLOGICPTI=m

#
# Fibre Channel support
#
CONFIG_FC4=m
CONFIG_FC4_SOC=m
CONFIG_FC4_SOCAL=m
CONFIG_SCSI_PLUTO=m
CONFIG_SCSI_FCAL=m

#
# Network device support
#
CONFIG_NETDEVICES=y

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

#
# Ethernet (10 or 100Mbit)
#
CONFIG_NET_ETHERNET=y
CONFIG_SUNLANCE=m
CONFIG_HAPPYMEAL=y
CONFIG_SUNBMAC=m
CONFIG_SUNQE=m
# CONFIG_SUNGEM is not set
```

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```
# CONFIG_NET_VENDOR_3COM is not set
# CONFIG_LANCE is not set
# CONFIG_NET_VENDOR_SMC is not set
# CONFIG_NET_VENDOR_RACAL is not set
# CONFIG_NET_ISA is not set
# CONFIG_NET_PCI is not set
# CONFIG_NET_POCKET is not set
```

```
#
# Ethernet (1000 Mbit)
#
# CONFIG_ACENIC is not set
# CONFIG_DL2K is not set
# CONFIG_E1000 is not set
# CONFIG_MYRI_SBUS is not set
# CONFIG_NS83820 is not set
# CONFIG_HAMACHI is not set
# CONFIG_YELLOWFIN is not set
# CONFIG_R8169 is not set
# CONFIG_SK98LIN is not set
# CONFIG_TIGON3 is not set
# CONFIG_FDDI is not set
# CONFIG_HIPPI is not set
# CONFIG_PLIP is not set
CONFIG_PPP=y
CONFIG_PPP_MULTILINK=y
CONFIG_PPP_FILTER=y
CONFIG_PPP_ASYNC=m
CONFIG_PPP_SYNC_TTY=m
CONFIG_PPP_DEFLATE=m
CONFIG_PPP_BSDCOMP=m
CONFIG_PPPOE=m
# CONFIG_SLIP is not set
```

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

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

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

## Linux-Kernel: [SPARC] Problem with "Happy Meal" drivers

```
#
# Unix 98 PTY support
#
CONFIG_UNIX98_PTYS=y
CONFIG_UNIX98_PTY_COUNT=256

#
# Video For Linux
#
# CONFIG_VIDEO_DEV is not set

#
# XFree86 DRI support
#
# CONFIG_DRM_NEW is not set
# CONFIG_DRM_FFB is not set
# CONFIG_DRM_TDFX is not set
# CONFIG_DRM_R128 is not set

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

#
# File systems
#
CONFIG_QUOTA=y
# CONFIG_QFMT_V2 is not set
CONFIG_AUTOFS_FS=y
CONFIG_AUTOFS4_FS=y
# CONFIG_REISERFS_FS is not set
# CONFIG_REISERFS_CHECK is not set
# CONFIG_REISERFS_PROC_INFO is not set
# CONFIG_ADFS_FS is not set
# CONFIG_ADFS_FS_RW is not set
# CONFIG_AFFS_FS is not set
# CONFIG_HFS_FS is not set
# CONFIG_HFSPLUS_FS is not set
# CONFIG_BEFS_FS is not set
# CONFIG_BEFS_DEBUG is not set
# CONFIG_BFS_FS is not set
CONFIG_EXT3_FS=m
CONFIG_JBD=m
# CONFIG_JBD_DEBUG is not set
# CONFIG_FAT_FS is not set
# CONFIG_MSDOS_FS is not set
```

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```
# CONFIG_UMSDOS_FS is not set
# CONFIG_VFAT_FS is not set
# CONFIG_EFS_FS is not set
# CONFIG_JFFS_FS is not set
# CONFIG_JFFS2_FS is not set
# CONFIG_CRAMFS is not set
# CONFIG_TMPFS is not set
CONFIG_RAMFS=y
CONFIG_ISO9660_FS=y
CONFIG_JOLIET=y
# CONFIG_ZISOFS is not set
# CONFIG_JFS_FS is not set
# CONFIG_JFS_DEBUG is not set
# CONFIG_JFS_STATISTICS is not set
# CONFIG_MINIX_FS is not set
# CONFIG_VXFS_FS is not set
# CONFIG_NTFS_FS is not set
# CONFIG_NTFS_RW is not set
# CONFIG_HPFS_FS is not set
CONFIG_PROC_FS=y
# CONFIG_DEVFS_FS is not set
# CONFIG_DEVFS_MOUNT is not set
# CONFIG_DEVFS_DEBUG is not set
CONFIG_DEVPTS_FS=y
# CONFIG_QNX4FS_FS is not set
# CONFIG_QNX4FS_RW is not set
# CONFIG_ROMFS_FS is not set
CONFIG_EXT2_FS=y
# CONFIG_SYSV_FS is not set
# CONFIG_UDF_FS is not set
# CONFIG_UDF_RW is not set
# CONFIG_UFS_FS is not set
# CONFIG_UFS_FS_WRITE is not set

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

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```
# CONFIG_NCPFS_PACKET_SIGNING is not set
# CONFIG_NCPFS_IOCTL_LOCKING is not set
# CONFIG_NCPFS_STRONG is not set
# CONFIG_NCPFS_NFS_NS is not set
# CONFIG_NCPFS_OS2_NS is not set
# CONFIG_NCPFS_SMALLDOS is not set
# CONFIG_NCPFS_NLS is not set
# CONFIG_NCPFS_EXTRAS is not set
# CONFIG_ZISOFS_FS is not set

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

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

## Linux-Kernel: [SPARC] Problem with "Happy Meal" drivers

```
# CONFIG_NLS_ISO8859_6 is not set
# CONFIG_NLS_ISO8859_7 is not set
# CONFIG_NLS_ISO8859_9 is not set
# CONFIG_NLS_ISO8859_13 is not set
# CONFIG_NLS_ISO8859_14 is not set
# CONFIG_NLS_ISO8859_15 is not set
# CONFIG_NLS_KOI8_R is not set
# CONFIG_NLS_KOI8_U is not set
# CONFIG_NLS_UTF8 is not set

#
# Sound
#
# CONFIG_SOUND is not set

#
# USB support
#
# CONFIG_USB is not set

#
# Support for USB gadgets
#
CONFIG_USB_GADGET=y
# CONFIG_USB_GADGET_CONTROLLER is not set

#
# Bluetooth support
#
# CONFIG_BLUEZ is not set

#
# Watchdog
#
# CONFIG_SOFT_WATCHDOG is not set

#
# Kernel hacking
#
# CONFIG_DEBUG_KERNEL is not set
# CONFIG_STACK_DEBUG is not set
CONFIG_LOG_BUF_SHIFT=0

#
# Cryptographic options
#
CONFIG_CRYPT=y
CONFIG_CRYPT_HMAC=y
CONFIG_CRYPT_NULL=m
CONFIG_CRYPT_MD4=y
CONFIG_CRYPT_MD5=y
```

## Linux-Kernel: [SPARC] Problem with "Happy Meal" drivers

```
CONFIG_CRYPT_SHA1=y
CONFIG_CRYPT_SHA256=m
CONFIG_CRYPT_SHA512=m
CONFIG_CRYPT_DES=y
CONFIG_CRYPT_BLOWFISH=m
CONFIG_CRYPT_TWOFISH=m
CONFIG_CRYPT_SERPENT=m
CONFIG_CRYPT_AES=m
CONFIG_CRYPT_CAST5=m
CONFIG_CRYPT_DEFLATE=y
# CONFIG_CRYPT_TEST is not set
```

```
#
# Library routines
#
CONFIG_CRC32=y
CONFIG_ZLIB_INFLATE=y
CONFIG_ZLIB_DEFLATE=y
CONFIG_FW_LOADER=m
```

The DMESG:

```
PROMLIB: Sun IEEE Boot Prom 3.11.2 1997/12/05 10:25
Linux version 2.4.24 (root@Soleil) (gcc version 3.3.3 20031229 (prerelease)
(Debian)) #1 SMP Sat Jan 10 03:35:31 CET 2004
ARCH: SUN4U
Ethernet address: 08:00:20:88:81:50
On node 0 totalpages: 81418
zone(0): 229278 pages.
zone(1): 0 pages.
zone(2): 0 pages.
Found CPU 0 (node=f00661cc,mid=0)
Found CPU 1 (node=f0066538,mid=1)
Found 2 CPU prom device tree node(s).
Kernel command line: root=/dev/sdb2 ro
Calibrating delay loop... 398.95 BogoMIPS
Memory: 629776k available (1800k kernel code, 272k data, 104k init)
[ffff800000000000,000000006ff3c000]
Dentry cache hash table entries: 131072 (order: 8, 2097152 bytes)
Inode cache hash table entries: 65536 (order: 7, 1048576 bytes)
Mount cache hash table entries: 512 (order: 0, 8192 bytes)
Buffer cache hash table entries: 32768 (order: 5, 262144 bytes)
Page-cache hash table entries: 131072 (order: 7, 1048576 bytes)
POSIX conformance testing by UNIFIX
Entering UltraSMPenguin Mode...
Calibrating delay loop... 399.76 BogoMIPS
Total of 2 processors activated (798.72 BogoMIPS).
CPU 1: synchronized TICK with master CPU (last diff -3 cycles,maxerr 386
cycles)
Waiting on wait_init_idle (map = 0x2)
All processors have done init_idle
SYSIO: UPA portID 1f, at 000001fe00000000
```

## Linux-Kernel: [SPARC] Problem with "Happy Meal" drivers

sbus0: Clock 25.0 MHz  
dma0: HME DVMA gate array  
dma1: HME DVMA gate array  
Sparc Zilog8530 serial driver version 1.68.2.2  
Sun Mouse-Systems mouse driver version 1.00  
tty00 at 0xf1100004 (irq = 12,7e8) is a Zilog8530  
tty01 at 0xf1100000 (irq = 12,7e8) is a Zilog8530  
tty02 at 0xf1000004 (irq = 12,7e8) is a Zilog8530  
tty03 at 0xf1000000 (irq = 12,7e8) is a Zilog8530  
keyboard: not present  
Console: ttyS0 (Zilog8530)  
Linux NET4.0 for Linux 2.4  
Based upon Swansea University Computer Society NET3.039  
Initializing RT netlink socket  
Starting kswapd  
VFS: Disk quotas vdquot\_6.5.1  
pty: 256 Unix98 ptys configured  
sunhme.c:v2.01 26/Mar/2002 David S. Miller (davem@redhat.com)  
eth0: HAPPY MEAL (SBUS) 10/100baseT Ethernet 08:00:20:88:81:50  
eth1: HAPPY MEAL (SBUS) 10/100baseT Ethernet 08:00:20:88:81:50  
PPP generic driver version 2.4.2  
SCSI subsystem driver Revision: 1.00  
esp0: IRQ 4,7e0 SCSI ID 7 Clk 40MHz CCYC=25000 CCF=8 TOut 167  
NCR53C9XF(espfast)  
esp1: IRQ 7,7cb SCSI ID 7 Clk 40MHz CCYC=25000 CCF=8 TOut 167  
NCR53C9XF(espfast)  
ESP: Total of 2 ESP hosts found, 2 actually in use.  
scsi0 : Sparc ESP366-HME  
scsi1 : Sparc ESP366-HME  
Vendor: SEAGATE Model: ST39102LCSUN9.0G Rev: 0828  
Type: Direct-Access ANSI SCSI revision: 02  
Vendor: SEAGATE Model: ST39102LCSUN9.0G Rev: 0828  
Type: Direct-Access ANSI SCSI revision: 02  
Vendor: TOSHIBA Model: XM5701TASUN12XCD Rev: 0997  
Type: CD-ROM ANSI SCSI revision: 02  
Attached scsi disk sda at scsi0, channel 0, id 0, lun 0  
Attached scsi disk sdb at scsi0, channel 0, id 1, lun 0  
esp0: target 0 [period 100ns offset 15 20.00MHz FAST-WIDE SCSI-II]  
SCSI device sda: 17689267 512-byte hdwr sectors (9057 MB)  
Partition check:  
sda: sda1 sda2 sda3 sda8  
esp0: target 1 [period 100ns offset 15 20.00MHz FAST-WIDE SCSI-II]  
SCSI device sdb: 17689267 512-byte hdwr sectors (9057 MB)  
sdb: sdb1 sdb2 sdb3  
Attached scsi CD-ROM sr0 at scsi0, channel 0, id 6, lun 0  
esp0: target 6 asynchronous  
sr0: scsi-1 drive  
Uniform CD-ROM driver Revision: 3.12  
Initializing Cryptographic API  
NET4: Linux TCP/IP 1.0 for NET4.0  
IP Protocols: ICMP, UDP, TCP, IGMP

## Linux-Kernel: [SPARC] Problem with "Happy Meal" drivers

IP: routing cache hash table of 8192 buckets, 128Kbytes  
TCP: Hash tables configured (established 65536 bind 65536)  
Linux IP multicast router 0.06 plus PIM-SM  
ip\_contrack version 2.1 (2460 buckets, 19680 max) – 424 bytes per contrack  
ip\_tables: (C) 2000–2002 Netfilter core team  
ipt\_recent v0.3.1: Stephen Frost <sfrost@snowman.net>.  
[http://snowman.net/projects/ipt\\_recent/](http://snowman.net/projects/ipt_recent/)  
arp\_tables: (C) 2002 David S. Miller  
NET4: Unix domain sockets 1.0/SMP for Linux NET4.0.  
EXT2-fs warning (device sd(8,18)): ext2\_read\_super: mounting ext3 filesystem  
as ext2

VFS: Mounted root (ext2 filesystem) readonly.  
Unimplemented SPARC system call 188  
Unimplemented SPARC system call 188  
Unimplemented SPARC system call 188  
Unimplemented SPARC system call 188  
Unimplemented SPARC system call 188  
Unimplemented SPARC system call 188  
Adding Swap: 87960k swap-space (priority -1)  
IPv6 v0.8 for NET4.0  
IPv6 over IPv4 tunneling driver  
PPP Deflate Compression module registered  
Journalled Block Device driver loaded  
kjournald starting. Commit interval 5 seconds  
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,17), internal journal  
EXT3-fs: mounted filesystem with ordered data mode.  
eth1: Link is up using internal transceiver at 100Mb/s, Full Duplex.  
eth0: Link is up using internal transceiver at 100Mb/s, Full Duplex.  
eth1: no IPv6 routers present  
eth0: no IPv6 routers present

You get in touch with me on freenode under the nick bath66,  
or by email : bath66@bath66.homeip.net

Thanks  
bath66.

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