Package KERNEL_5_4
Version 4.0.0-trunk-x86_64-r60740

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Contents

1 Documentation For Package KERNEL_5_4

1.1 Kernel 5.4

This chapter documents the available drivers of the Linux kernel in version 5.4, as provided by the package kernel_5_4.

1.1.1 Network adapter drivers

This section lists all network card drivers supported by this kernel. We differentiate between LAN drivers for wired networks and WLAN drivers for wireless networks. Wireless network drivers also need the package "wlan" in addition to the base- and this kernel package.

Table 1.1: Available LAN adapter drivers in Linux 5.4

Bus	NET_DRV_x	Adapter family
pcmcia	3c574_cs	3Com 3c574 series PCMCIA ethernet
pcmcia	3c589_cs	3Com 3c589 series PCMCIA ethernet
pci	3c59x	3Com 3c59x/3c9xx ethernet
pci	8139cp	RealTek RTL-8139C+ series 10/100 PCI Ethernet
pci	8139too	RealTek RTL-8139 Fast Ethernet
pci	acenic	AceNIC/3C985/GA620 Gigabit Ethernet
pci	alx	Qualcomm Atheros(R) AR816x/AR817x PCI-E Ethernet Network
pci	amd-xgbe	AMD 10 Gigabit Ethernet
pci	amd8111e	AMD8111 based 10/100 Ethernet Controller
usb	aqc111	Aquantia AQtion USB to 5/2.5GbE Controllers
usb	asix	ASIX AX8817X based USB 2.0 Ethernet Devices
pci	atl1	Atheros L1 Gigabit Ethernet
pci	atl1c	Qualcomm Atheros 100/1000M Ethernet Network
pci	atl1e	Atheros 1000M Ethernet Network
pci	atl2	Atheros Fast Ethernet Network
pci	atlantic	aQuantia Corporation(R) Network
isa	atp	RealTek RTL8002/8012 parallel port Ethernet
usb	atusb	ATUSB IEEE 802.15.4
usb	ax88179_178a	ASIX AX88179/178A based USB 3.0/2.0 Gigabit Ethernet Devices
pcmcia	axnet_cs	Asix AX88190 PCMCIA ethernet
pci	b44	Broadcom 44xx/47xx 10/100 PCI ethernet
pci	be2net	Emulex OneConnect NIC Driver 12.0.0.0

Table 1.1: Available LAN adapter drivers in Linux 5.4 (continued)

Bus	NET_DRV_x	Adapter family
pci	bna	QLogic BR-series 10G PCIe Ethernet
pci	bnx2	QLogic BCM5706/5708/5709/5716
pci	bnx2x	Broadcom NetXtreme II BCM57710/ 57711/ 57711E/ 57712/ 57712_MF/ 57800/ 57800_MF/ 57810/ 57810_MF/ 57840/ 57840_MF
pci	bnxt_en	Broadcom BCM573xx network
pci	cassini	Sun Cassini(+) ethernet
usb	catc	CATC EL1210A NetMate USB Ethernet
usb	cdc_eem	USB CDC EEM
usb	cdc_ether	USB CDC Ethernet devices
usb	cdc_mbim	USB CDC MBIM host
usb	cdc_ncm	USB CDC NCM host
usb	cdc_subset	Simple 'CDC Subset' USB networking links
usb	ch9200	QinHeng CH9200 USB Network device
usb	cx82310_eth	Conexant CX82310-based ADSL router USB ethernet
pci	cxgb	Chelsio 10Gb Ethernet
pci	cxgb3	Chelsio T3 Network
pci	cxgb4	Chelsio T4/T5/T6 Network
pci	cxgb4vf	Chelsio T4/T5/T6 Virtual Function (VF) Network
pci	de2104x	Intel/Digital 21040/1 series PCI Ethernet
isa	de4x5	Digital DE425, DE434, DE435, DE450, DE500
pci	defxx	DEC FDDIcontroller TC/EISA/PCI (DEFTA/DEFEA/DEFPA) driver v1.11 2014/07/01
pci	dl2k	D-Link DL2000-based Gigabit Ethernet Adapter
usb	dm9601	Davicom DM96xx USB 10/100 ethernet devices
pci	dmfe	Davicom DM910X fast ethernet
virtual	dummy	Dummy Network Interface
pci	dwc-xlgmac	Synopsys DWC XLGMAC
pci	e100	Intel(R) PRO/100 Network
pci	e1000	Intel(R) PRO/1000 Network
pci	e1000e	Intel(R) PRO/1000 Network
pci	ec_bhf	
pci	ena	Elastic Network Adapter (ENA)
pci	enic	Cisco VIC Ethernet NIC
pci	epic100	SMC 83c170 EPIC series Ethernet
pci	et131x	10/100/1000 Base-T Ethernet Driver for the ET1310 by Agere Systems
pci	fealnx	Myson MTD-8xx 100/10M Ethernet PCI Adapter
pci	fm10k	Intel(R) Ethernet Switch Host Interface
pcmcia	fmvj18x_cs	fmvj18x and compatible PCMCIA ethernet
pci	forcedeth	Reverse Engineered nForce ethernet
usb	gl620a	GL620-USB-A Host-to-Host Link cables

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Table 1.1: Available LAN adapter drivers in Linux 5.4 (continued)

Bus	NET_DRV_x	Adapter family
pci	gve	gVNIC
pci	hamachi	Packet Engines 'Hamachi' GNIC-II Gigabit Ethernet
eisa,pci	hp100	HP CASCADE Architecture Driver for 100VG-AnyLan Network Adapters
usb	hso	USB High Speed Option
usb	huawei_cdc_ncm	USB CDC NCM host driver with encapsulated protocol support
pci	i40e	Intel(R) Ethernet Connection XL710 Network
pci	iavf	Intel(R) Ethernet Adaptive Virtual Function Network
pci	ice	Intel(R) Ethernet Connection E800 Series Linux
pci	igb	Intel(R) Gigabit Ethernet Network
pci	igbvf	Intel(R) Gigabit Virtual Function Network
pci	igc	Intel(R) 2.5G Ethernet Linux
usb	int51x1	Intellon usb powerline adapter
pci	ionic	Pensando Ethernet NIC
usb	ipheth	Apple iPhone USB Ethernet
pci	ixgb	Intel(R) PRO/10GbE Network
pci	ixgbe	Intel(R) 10 Gigabit PCI Express Network
pci	ixgbevf	Intel(R) 10 Gigabit Virtual Function Network
pci	jme	JMicron JMC2x0 PCI Express Ethernet
usb	kalmia	Samsung Kalmia USB network
usb	kaweth	KL5USB101 USB Ethernet
pci	ksz884x	KSZ8841/2 PCI network
usb	lan78xx	LAN78XX USB 3.0 Gigabit Ethernet Devices
usb	lg-vl600	LG-VL600 modem's ethernet link
pci	liquidio	Cavium LiquidIO Intelligent Server Adapter
pci	liquidio_vf	Cavium LiquidIO Intelligent Server Adapter Virtual Function
usb	mcs7830	USB to network adapter MCS7830)
pci	mdio-thunder	Cavium ThunderX MDIO bus
pci	mlx4_core	Mellanox ConnectX HCA low-level
pci	mlx4_en	Mellanox ConnectX HCA Ethernet
pci	mlx5_core	Mellanox 5th generation network adapters (ConnectX series) core
pci	mlxsw_spectrum	Mellanox Spectrum
pci	mlxsw_switchib	Mellanox SwitchIB and SwitchIB-2
pci	mlxsw_switchx2	Mellanox SwitchX-2
pci	myri10ge	Myricom 10G driver (10GbE)
pci	natsemi	National Semiconductor DP8381x series PCI Ethernet
pci	ne2k-pci	PCI NE2000 clone
usb	net1080	NetChip 1080 based USB Host-to-Host Links
pci	netxen_nic	QLogic/NetXen (1/10) GbE Intelligent Ethernet

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Table 1.1: Available LAN adapter drivers in Linux 5.4 (continued)

Bus	NET_DRV_x	Adapter family
pci	nfp	The Netronome Flow Processor (NFP)
pci	nicpf	Cavium Thunder NIC Physical Function
pci	nicvf	Cavium Thunder NIC Virtual Function
pci	niu	Sun Neptun Ethernet
pcmcia	nmclan_cs	New Media PCMCIA ethernet
pci	ns83820	National Semiconductor DP83820 10/100/1000
pci	pcnet32	PCnet32 and PCnetPCI based ethercards
pcmcia	pcnet_cs	NE2000 compatible PCMCIA ethernet
usb	pegasus	Pegasus/Pegasus II USB Ethernet
usb	plusb	Prolific PL-2301/2302/25A1/27A1 USB Host to Host Link
pci	qede	QLogic FastLinQ 4xxxx Ethernet
pci	qla3xxx	QLogic ISP3XXX Network Driver v2.03.00-k5
pci	qlcnic	QLogic 1/10 GbE Converged/Intelligent Ethernet
usb	qmi_wwan	Qualcomm MSM Interface (QMI) WWAN
pci	r6040	RDC R6040 NAPI PCI FastEthernet
usb	r8152	Realtek RTL8152/RTL8153 Based USB Ethernet Adapters
pci	r8169	RealTek RTL-8169 Gigabit Ethernet
usb	rndis_host	USB Host side RNDIS
usb	rtl8150	rtl8150 based usb-ethernet
pci	s2io	Neterion 10GbE Server NIC
isa	sb1000	General Instruments SB1000
pci	sc92031	Silan SC92031 PCI Fast Ethernet Adapter
pci	sfc	Solarflare network
pci	sfc-falcon	Solarflare Falcon network
pci	sis190	SiS sis190/191 Gigabit Ethernet
pci	sis900	SiS 900 PCI Fast Ethernet
pci	skfp	SysKonnect FDDI PCI adapter
pci	skge	SysKonnect Gigabit Ethernet
pci	sky2	Marvell Yukon 2 Gigabit Ethernet
pcmcia	smc91c92_cs	SMC 91c92 series PCMCIA ethernet
usb	smsc75xx	SMSC75XX USB 2.0 Gigabit Ethernet Devices
pci	smsc9420	SMSC LAN9420
usb	smsc95xx	SMSC95XX USB 2.0 Ethernet Devices
usb	sr9700	SR9700 one chip USB 1.1 USB to Ethernet device from http://www.corechip-sz.com/
usb	sr9800	SR9800 USB 2.0 USB2NET Dev : http://www.corechip-sz.com
pci	starfire	Adaptec Starfire Ethernet
pci	stmmac-pci	STMMAC 10/100/1000 Ethernet PCI
pci	sundance	Sundance Alta Ethernet

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Table 1.1: Available LAN adapter drivers in Linux 5.4 (continued)

Bus	NET_DRV_x	Adapter family
pci	sungem	Sun GEM Gbit ethernet
pci	sunhme	Sun HappyMealEthernet(HME) 10/100baseT ethernet
pci	tehuti	Tehuti Networks(R) Network
pci	tg3	Broadcom Tigon3 ethernet
pci	thunder_bgx	Cavium Thunder BGX/MAC
pci	thunder_xcv	Cavium Thunder RGX/XCV
pci	tlan	TI ThunderLAN based ethernet PCI adapters
pci	tulip	Digital 21*4* Tulip ethernet
pci	typhoon	3Com Typhoon Family (3C990, 3CR990, and variants)
pci	uli526x	ULi M5261/M5263 fast ethernet
pci	via-rhine	VIA Rhine PCI Fast Ethernet
pci	via-velocity	VIA Networking Velocity Family Gigabit Ethernet Adapter
virtio	virtio_net	Virtio network
pci	vmxnet3	VMware vmxnet3 virtual NIC
pci	vxge	Neterion's X3100 Series 10GbE PCIe I/OVirtualized Server Adapter
pci	winbond-840	Winbond W89c840 Ethernet
xen	xen-netfront	Xen virtual network device frontend
pcmcia	xirc2ps_cs	Xircom PCMCIA ethernet
pci	xircom_cb	Xircom Cardbus ethernet
pci	yellowfin	Packet Engines Yellowfin G-NIC Gigabit Ethernet
usb	zaurus	Sharp Zaurus PDA, and compatible products

Table 1.2: Available WLAN adapter drivers in Linux 5.4

Bus	NET_DRV_x	Adapter family
pci	adm8211	IEEE 802.11b wireless cards based on ADMtek ADM8211
isa,pci	airo	Cisco/Aironet 802.11 wireless ethernet cards
pcmcia	airo_cs	Cisco/Aironet 802.11 wireless ethernet cards
usb	ar5523	Atheros AR5523 based USB dongles
usb	at76c50x-usb	Atmel at76x USB Wireless LAN
pci	ath10k_pci	Driver support for Qualcomm Atheros 802.11ac WLAN PCIe/AHB devices
pci	ath5k	5xxx series of Atheros 802.11 wireless LAN cards
usb	ath6kl_usb	Driver support for Atheros AR600x USB devices
pci	ath9k	Atheros 802.11n wireless LAN cards
usb	ath9k_htc	Atheros driver 802.11n HTC based wireless devices
pcmcia	atmel_cs	Atmel at76c50x 802.11 wireless ethernet cards

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Table 1.2: Available WLAN adapter drivers in Linux 5.4 (continued)

Bus	NET_DRV_x	Adapter family
pci	atmel_pci	Atmel at76c50x 802.11 wireless ethernet cards
pci	b43	Broadcom B43 wireless
pci	b43legacy	Broadcom B43legacy wireless
pci, usb	brcmfmac	Broadcom 802.11 wireless LAN fullmac
pci	brcmsmac	Broadcom 802.11n wireless LAN
usb	carl9170	Atheros AR9170 802.11n USB wireless
pcmcia	hostap_cs	Intersil Prism2-based 802.11 wireless LAN cards (PC Card)
pci	hostap_pci	Intersil Prism2.5-based 802.11 wireless LAN PCI cards
pci	hostap_plx	Intersil Prism2-based 802.11 wireless LAN cards (PLX)
pci	ipw2100	Intel(R) PRO/Wireless 2100 Network
pci	ipw2200	Intel(R) PRO/Wireless 2200/2915 Network
pci	iwl3945	Intel(R) PRO/Wireless 3945ABG/BG Network Connection driver for Linux
pci	iwl4965	Intel(R) Wireless WiFi 4965 driver for Linux
pci	iwlwifi	Intel(R) Wireless WiFi driver for Linux
pcmcia	libertas_cs	Marvell 83xx compact flash WLAN cards
usb	libertas_tf_usb	8388 USB WLAN Thinfirm
virtual	mac80211_hwsim	Software simulator of 802.11 radio(s) for mac80211
usb	mt7601u	
pci	mt7603e	
pci	mt7615e	
pci	mt76x0e	
usb	mt76x0u	
pci	mt76x2e	
usb	mt76x2u	
pci	mwifiex_pcie	Marvell WiFi-Ex PCI-Express Driver version 1.0
usb	mwifiex_usb	Marvell WiFi-Ex USB Driver version1.0
pci	mwl8k	Marvell TOPDOG(R) 802.11 Wireless Network
pcmcia	orinoco_cs	PCMCIA Lucent Orinoco, Prism II based and similar wireless cards
pci	orinoco_nortel	wireless LAN cards using the Nortel PCI bridge
pci	orinoco_plx	wireless LAN cards using the PLX9052 PCI bridge
pci	orinoco_tmd	wireless LAN cards using the TMD7160 PCI bridge
usb	orinoco_usb	Orinoco wireless LAN cards using EZUSB bridge
pci	p54pci	Prism54 PCI wireless
usb	p54usb	Prism54 USB wireless
pcmcia	ray_cs	Raylink/WebGear wireless LAN
usb	rndis_wlan	RNDIS based USB Wireless adapters
usb	rsi_usb	Common USB layer for RSI drivers
pci	rt2400pci	Ralink RT2400 PCI & PCMCIA Wireless LAN
pci	rt2500pci	Ralink RT2500 PCI & PCMCIA Wireless LAN

Table 1.2: Available WLAN adapter drivers in Linux 5.4 (continued)

Bus	NET_DRV_x	Adapter family
usb	rt2500usb	Ralink RT2500 USB Wireless LAN
pci	rt2800pci	Ralink RT2800 PCI & PCMCIA Wireless LAN
usb	rt2800usb	Ralink RT2800 USB Wireless LAN
pci	rt61pci	Ralink RT61 PCI & PCMCIA Wireless LAN
usb	rt73usb	Ralink RT73 USB Wireless LAN
usb	rtl8187	RTL8187/RTL8187B USB wireless
pci	rtl8188ee	Realtek 8188E 802.11n PCI wireless
pci	rtl818x_pci	RTL8180 / RTL8185 / RTL8187SE PCI wireless
pci	rtl8192ce	Realtek 8192C/8188C 802.11n PCI wireless
usb	rtl8192cu	Realtek 8192C/8188C 802.11n USB wireless
pci	rtl8192de	Realtek 8192DE 802.11n Dual Mac PCI wireless
pci	rtl8192ee	Realtek 8192EE 802.11n PCI wireless
pci	rtl8192se	Realtek 8192S/8191S 802.11n PCI wireless
pci	rtl8723ae	Realtek 8723E 802.11n PCI wireless
pci	rtl8723be	Realtek 8723BE 802.11n PCI wireless
pci	rtl8821ae	Realtek 8821ae 802.11ac PCI wireless
usb	rtl8xxxu	RTL8XXXu USB mac80211 Wireless LAN
usb	sierra_net	USB-to-WWAN Driver for Sierra Wireless modems
pcmcia	spectrum_cs	Symbol Spectrum24 Trilogy cards with firmware downloader
usb	usb8xxx	8388 USB WLAN
pci	wil6210	60g WiFi WIL6210 card
pcmcia	wl3501_cs	Planet wl3501 wireless
usb	zd1201	ZyDAS ZD1201 based USB Wireless adapters
usb	zd1211rw	USB driver for devices with the ZD1211 chip

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