WLAN Treiber für realtek Chipsatz unter Raspbian installieren

!/bin/bash set -e # install-wifi - v5 - by MrEngman. display_help() { echo "#" echo "# usage:" echo "#" echo "# install-wifi [[-h | --help] |" echo "# [-c | --check [driver] [rpi-update | commit_id]] |" echo "# [-u | --update [driver] [rpi-update | commit_id]] |" echo "# [driver [rpi-update | commit_id]]]" echo "#" echo "# options:" echo "# none - install the driver for the wifi module connected to the Pi for the currently running kernel." echo "#" echo "# -h|--help - display usage." echo "#" echo "# -c|--check [driver] [option] - check if a driver is available, does not install it." echo "# driver - specific driver to check for, one of: 8188eu, 8192eu, 8812au, mt7601, mt7610 or mt7612" echo "# [option]:- blank - check driver for currently running kernel" echo "# rpi-update - check driver for latest version of rpi-update" echo "# commit-id - check driver for specific commit-id of rpi-update" echo "#" echo "# -u|--update [driver] [option] - update/install driver, can be used after running, but before rebooting, rpi-update" echo "# to update the driver to the one needed for the new kernel installed by rpi-update." echo "# driver - specific driver to update/install, one of: 8188eu, 8192eu, 8812au, mt7601, mt7610 or mt7612" echo "# [option]:- blank - update/install driver for currently running kernel" echo "# rpi-update - update/install driver for latest version of rpi-update" echo "# commit-id - update/install driver for specific commit-id of rpi-update" echo "#" echo "# driver [option] - install specific driver, enables installing the driver for a module not currently connected to" echo "# the Pi, or installing a driver for a different module if you want to change your wifi module." echo "# driver - specific driver to install, one of: 8188eu, 8192eu, 8812au, mt7601, mt7610 or mt7612" echo "# [option]:- blank

- update/install driver for currently running kernel" echo "# rpi-update - update/install driver for latest version of rpi-update" echo "# commit-id - update/install driver for specific commit-id of rpi-update" echo "#" read -n1 -r -p "Press any key to continue..." echo echo "#" echo "# install-wifi examples:" echo "#" echo "# Install/update the wifi driver for the wifi module connected to the Pi for the currently running kernel" echo "#" echo "# install-wifi" echo "#" echo "# If you want to change your wifi module to one using a different driver that is compatible with this script" echo "# you can install the driver for the new wifi module, one of: 8188eu, 8192eu, 8812au, mt7601, mt7610 or mt7612" echo "# In this example it will install the 8192eu wifi module driver. After installing the driver shutdown the" echo "# Pi, remove the currently connected wifi module and connect the new 8192eu wifi module and restart your Pi" echo "# and it should start up with the new wifi adapter connected to your network." echo "#" echo "# install-wifi 8192eu - this will install the 8192eu module for the current kernel" echo "#" echo "# if you want to run rpi-update, first check a driver is available before you update your code. If the check" echo "# indicates a driver is available run rpi-update to update the firmware/kernel and then before rebooting" echo "# update the wifi driver." echo "#" echo "# install-wifi -c rpi-update - check for driver if rpi-update is run." echo "# sudo rpi-update - if a driver is available you can run rpi-update to update firmware." echo "# install-wifi -u rpi-update - then update the driver for the new kernel installed by rpi-update." echo "# sudo reboot - now reboot to update the kernel with the new wifi driver." echo "#" echo "# if you want to run, say rpi-update b2f6c103e5 to install 3.18.7+ #755, first check a driver is available" echo "# before you update your code. Then, if a driver is

available update the code, and then before rebooting" echo "# update the wifi driver." echo "#" echo "# install-wifi -c b2f6c103e5 - check for driver if rpi-update b2f6c103e5 is run to install kernel 3.18.7+ #755." echo "# sudo rpi-update b2f6c103e5 - if a driver is available you can run rpi-update b2f6c103e5 to update firmware." echo "# install-wifi -u b2f6c103e5 - then update the driver for the new kernel installed by rpi-update b2f6c103e5." echo "# sudo reboot - now reboot to update the kernel with the new wifi driver." echo "#" echo "# and finally, you can change the wifi module you are using and install the new driver for it as well as" echo "# running rpi-update to update the kernel, and assuming in this example the new adapter uses the 8812au" echo "# driver, using something like:" echo "#" echo "# install-wifi -c 8812au rpi-update - check for 8812au driver if rpi-update is run." echo "# sudo rpi-update - if a driver is available you can run rpi-update to update firmware." echo "# install-wifi -u 8812au rpi-update - install the 8812au driver for the new kernel installed by rpi-update." echo "# sudo halt - shutdown the Pi, replace the wifi adapter with the 8812au wifi adapter." echo "# - restart the Pi with the new kernel and new 8812au wifi module." echo "#" } fetch_driver() { echo "Checking for a wifi module to determine the driver to install." echo echo -n "Your wifi module is " lsusb > .lsusb # check for rtl8188eu compatible driver if cat .lsusb | grep -i '056E:4008\|2001:3311\|0DF6:0076\|2001:3310\|2001:330F\|07B8:8179\|0BDA:0179\|0BDA:8179' ; then driver=8188eu # check for rtl8812au compatible driver elif cat .lsusb | grep -i "0BDA:8812\|0BDA:881A\|0BDA:881B\|0BDA:881C\|050D:1106\|050D:1109\|2001:330E\|7392:A822\| / \|0DF6:0074\|04BB:0952\|0789:016E\|0409:0408\|0B05:17D2\|0E66:0022\|0586:3426\|2001:3313\| / \|1058:0632\|1740:0100\|2019:AB30\|07B8:8812\|2001:3315\|2001:3316\|2357:0101\|20f4:805b\| /

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\|13B1:003F\|148F:9097\|2357:0103\|0BDA:0811\|0BDA:0821\|0BDA:8822\|0BDA:0820\|0BDA:0823\| /  \|7392:A811\|04BB:0953\|0BDA:A811\|7392:A812\|7392:A813\|2001:3314\|0846:9052\|2001:3318\| /  \|0E66:0023\|0411:0242\|2019:AB32" ; then
driver=8812au  # check for rtl8192eu compatible driver  elif cat .lsusb | grep -i '2001:3319\|0BDA:818C\|0BDA:818B\|2357:0107\|2357:0108\|2357:0109' ; then
driver=8192eu  # check for mt7601Usta compatible driver  elif cat .lsusb | grep -i '148F:7650\|0B05:17D3\|0E8D:760A\|0E8D:760B\|13D3:3431\|13D3:3434\|148F:6370\|148F:7601\| /  \|148F:760A\|148F:760B\|148F:760C\|148F:760D\|2001:3D04\|2717:4106\|2955:0001\|2955:1001\| /  \|2955:1003\|2A5F:1000\|7392:7710' ; then
driver=mt7601  # check for mt7610u compatible driver  elif cat .lsusb | grep -i '148F:7610\|0E8D:7610\|0E8D:7650\|0E8D:7630\|13B1:003E\|7392:A711\|7392:B711\|148F:761A\| /  \|148F:760A\|0B05:17D1\|0B05:17DB\|0DF6:0075\|2001:3D02\|0586:3425\|07B8:7610\|04BB:0951\| /  \|057C:8502\|293C:5702\|2019:AB31\|20F4:806B' ; then
driver=mt7610  # check for mt7612u compatible driver  elif cat .lsusb | grep -i '0E8D:7662\|0E8D:7632\|0B05:17C9\|0B05:180B\|0E8D:7612\|0846:9053' ; then
driver=mt7612  fi  if [[ ! $driver ]] ; then  echo "unrecognised."  echo  echo "**** Unable to identify your wifi module ****"  echo  echo "The script only works for wifi modules using the rtl8188eu, rtl8192eu, rtl8812au, mt7601, mt7610 and mt7612 drivers."  echo  echo "Looking for your wifi module the script detected the following USB devices:-"  echo  cat .lsusb  echo  echo "If you are certain your module uses one of the drivers the script installs check the output of command"  echo "'lsusb' shows your wifi module. If lsusb shows your wifi module try running the script again. If the"  echo "script fails to detect your wifi module again the driver may need updating to add your
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module USB id." echo echo "If lsusb does not show your wifi module you will need to resolve that issue before the script can be" echo "used to install the driver you need." echo exit 1 else echo echo "And it uses the $driver driver." echo fi } check_driver() { if [[$kernelcommit == "rpi-update"]] ; then rpi_firmware_commit_id=master elif [[$kernelcommit]] ; then rpi_firmware_commit_id=$kernelcommit fi if [[$kernelcommit]] ; then # check if Pi2 B or earlier version of Pi and select the relevant kernel image if (grep -Fq BCM2709 /proc/cpuinfo) ; then pi=2 image=kernel7.img elif (grep -Fq BCM2708 /proc/cpuinfo) ; then pi=1 image=kernel.img else echo "Processor type unknown - you do not appear to be running this script on a Raspberry Pi. Exiting the script" exit 1 fi echo -n "Please wait ... checking the kernel revision and build you will have after running command 'sudo rpi-update" if [[$kernelcommit != "rpi-update"]] ; then echo " $kernelcommit'." else echo "'." fi # download the relevant kernel image if ! (wget -q https://github.com/Hexxeh/rpi-firmware/raw/$rpi_firmware_commit_id/$image -O .kernel) ; then echo "Invalid commit-id, kernel not available for your version of the Pi, Pi $pi." exit 1 fi # extract uname_string from kernel image strings -n 10 .kernel | grep "Linux version" > .uname_string kernel=$(cat .uname_string | awk '{print $3}' | tr -d '+') build=$(grep -Po '(?<=#)[^[]*' .uname_string | awk '{print $1}') echo if [[$kernelcommit == "rpi-update"]] ; then echo -n "Running command 'sudo rpi-update" elif [[$kernelcommit]] ; then echo -n "Running command 'sudo rpi-update $kernelcommit" fi echo "' will load:" echo echo " kernel revision = $kernel+" echo " kernel build = #$build" echo fi echo -n "Checking for a new $driver wifi driver module" if [[$kernelcommit]] ; then if [[$kernelcommit == "rpi-update"]] ; then echo " if you

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run command 'sudo rpi-update'."   else    echo " if you
run command 'sudo rpi-update
$rpi_firmware_commit_id'."   fi  else   echo " for your
current kernel."  fi   if (wget --spider -o .wgetlog https://
dl.dropboxusercontent.com/u/80256631/$driver\-$kerne
l\-$build.tar.gz) ; then   echo "There is a driver module
available for this kernel revision."  else   if cat .wgetlog
| grep -iq "404 Not Found" ; then    echo "A driver does
not yet exist for this update."   else    echo "The script
cannot access Dropbox to check a driver is available."
fi  exit 2  fi }  install_driver() {   echo "Downloading the
$driver driver."   if (wget -q https://dl.dropboxuserconte
nt.com/u/80256631/$driver\-$kernel\-$build.tar.gz -O
wifi-driver.tar.gz) ; then   echo "Installing the $driver
driver."   echo   tar xzf wifi-driver.tar.gz   if [[ $driver
== mt7601 ]] ; then    driver=mt7601Usta    sudo mkdir
-p /etc/Wireless/RT2870STA/    sudo cp RT2870STA.dat
/etc/Wireless/RT2870STA/    sudo cp 95-ralink.rules
/etc/udev/rules.d/   elif [[ $driver == mt7610 ]] ; then
driver=mt7610u_sta    sudo mkdir -p
/etc/Wireless/RT2870STA/    sudo cp RT2870STA.dat
/etc/Wireless/RT2870STA/    sudo cp 95-ralink.rules
/etc/udev/rules.d/   elif [[ $driver == mt7612 ]] ; then
driver=mt7662u_sta    sudo mkdir -p
/etc/Wireless/RT2870STA/    sudo cp RT2870STA.dat
/etc/Wireless/RT2870STA/    sudo cp 95-ralink.rules
/etc/udev/rules.d/   else    sudo cp $driver.conf
/etc/modprobe.d/.   fi   sudo install -p -m 644 $driver.ko
/lib/modules/$kernel+/kernel/drivers/net/wireless   sudo
depmod $kernel+   if (lsmod | grep $driver > /dev/null) ;
then    echo "A version of the driver $driver.ko is
already loaded and running. You will need to reboot to
load the new driver."    exit   else    sudo modprobe
$driver   fi  else   echo   echo "A driver does not yet
exist for this kernel."  fi }  display_current() {  echo
echo "Your current kernel revision = $kernel+"  echo
"Your current kernel build    = #$build"  echo }
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tmpdir=$(mktemp -d) trap "\rm -rf $tmpdir" EXIT cd $tmpdir  #initialise some variables command=$0 option=$1 kernelcommit=$2 $1" in 8188eu|8192eu|8812au|mt7601|mt7610|mt7612) driver=$1   display_current   check_driver   install_driver   ;;  -c|--check)   case "$2" in 8188eu|8192eu|8812au|mt7601|mt7610|mt7612) driver=$2    kernelcommit=$3    ;;   esac   display_current   if [ ! $driver ] ; then    fetch_driver   fi   check_driver   ;;  -u|--update)   case "$2" in 8188eu|8192eu|8812au|mt7601|mt7610|mt7612) driver=$2    kernelcommit=$3    ;;   esac   display_current   if [ ! $driver ] ; then    fetch_driver   fi   check_driver   install_driver   ;;  -h|--help)   display_help   exit 0   ;;  "")   display_current   fetch_driver   check_driver   install_driver   ;; # proceed to install  *)   echo "unknown command: $1" >&2   ~/$command --help   exit 1   ;; esac  exit 0
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Das Script lädt den notwendigen Treiber und installiert diesen.

Eindeutige ID: #1014
Verfasser: n/a
Letzte Änderung: 2022-03-11 20:05