LinHES - Bug # 394: unable to mount USB storage devices

Status:	Closed		**Priority:**	Normal
Author:	Human		**Category:**	
Created:	06/18/2009		**Assignee:**	
Updated:	12/25/2011		**Due date:**	12/31/1969
Description:	Maybe I'm doing this wrong, but in a remote ISO build today, I'm unable to mount either of the two USB thumb drives I plugged in. I tried several variants and got "mount: /dev/sg2 is not a block device" each time. I know they detect as sg2 because of kernel log messages.			

History

06/22/2009 12:51 pm - UniCav

I have the same thing. Just installed today from R6.00.08 iso and did a full updgrade with pacman. When I insert a usb stick it doesn't do anything.
[edit]

I see hal is installed and working using lshal --monitor ... but there are no policies in /etc/hal.d/fdi/policies

without those hal has no idea what to do with devices. Hopefully they'll assign this to someone shortly and we'll get a fix.

06/23/2009 11:14 pm - cecil

sudo pacman -Sy udev
USB device should get mounted in /media

06/24/2009 09:23 am - UniCav

That fixes it. I also removed halevt that I had installed yesterday before updating udev and it works perfectly. USB Devices are automatically mounted in /media. It doesn't use the LABEL of the device but that's not really a big deal. Also probably not hard to fix with a tweak to udev's rules.

Additional step is to add /media to the list of directories containing videos under Service > Mythtv > Media > Video Settings, then whenever a usb device is plugged in it gets mounted and you can browse to it in the media library.

06/24/2009 09:40 am - UniCav

ADDENDUM:

To get the devices mounted under media as their partition label instead of USB# change /etc/udev/rules.d/usb-storage.rules as follows.
Basically you change all the ACTION lines that reference /media/usb%n to /media/$env{ID_FS_LABEL}

KERNEL=="sd[a-z]", NAME="%k", SYMLINK+="usb%m", GROUP="users", OPTIONS="last_rule"
ACTION=="add", KERNEL=="sd[a-z][0-9]", SYMLINK+="usb%n", GROUP="users", NAME="%k"
ACTION=="add", KERNEL=="sd[a-z][0-9]", RUN+="/bin/mkdir -p /media/$env{ID_FS_LABEL}"
ACTION=="add", KERNEL=="sd[a-z][0-9]", PROGRAM=="/lib/udev/vol_id -t %N", RESULT=="vfat", RUN+="/bin/mount -t vfat -o rw,noauto,flush,quiet,nodev,nosuid,noexec,noatime,dmask=000,fmask=111 /dev/%k /media/$env{ID_FS_LABEL}", OPTIONS="last_rule"
ACTION=="add", KERNEL=="sd[a-z][0-9]", RUN+="/bin/mount -t auto -o rw,noauto,sync,dirsync,noexec,nodev,noatime /dev/%k /media/$env{ID_FS_LABEL}", OPTIONS="last_rule"
ACTION=="remove", KERNEL=="sd[a-z][0-9]", RUN+="/bin/umount -l /media/$env{ID_FS_LABEL}"
ACTION=="remove", KERNEL=="sd[a-z][0-9]", RUN+="/bin/rmdir /media/$env{ID_FS_LABEL}", OPTIONS="last_rule"

06/25/2009 04:28 pm - UniCav

Hold off on that file change. I was unable to boot the system properly (went into maintenance mode) and wound up reinstalling the whole system. Originally I blamed it on plugging in another SATA drive with a bootable partition on it. After getting reinstalled and doing the same file change I tried using a USB adapter with the extra drive and it did the same thing, locked up and then wouldn't boot. I undid the changes and everything has been fine since. Apparently the changes I made cause udev to mount drives in loops and screws up /etc/mtab. So ATM things are working with the original "usb%n" format. Here is the original /etc/udev/rules.d/usb-storage.rules file I went by from http://bbs.archlinux.org/viewtopic.php?id=54607
That has some extra steps which probably prevent this problem. I have yet to test it, however.

KERNEL=="sd[b-z]", NAME="%k", SYMLINK+="usb%m", GROUP="users", OPTIONS="last_rule"

ACTION=="add", KERNEL=="sd[b-z][0-9]", SYMLINK+="usb%n", GROUP="users", NAME="%k"

ACTION=="add", KERNEL=="sd[b-z][0-9]", RUN+="/bin/mkdir -p /mnt/usb%n"

ACTION=="add", KERNEL=="sd[b-z][0-9]", RUN+="/bin/ln -s /mnt/usb%n /media/$env{ID_FS_LABEL}"

ACTION=="add", KERNEL=="sd[b-z][0-9]", PROGRAM=="/lib/udev/vol_id -t %N", RESULT=="vfat", RUN+="/bin/mount -t vfat -o rw,noauto,flush,quiet,nodev,nosuid,noexec,noatime,dmask=000,fmask=111 /dev/%k /mnt/usb%n", OPTIONS="last_rule"

ACTION=="add", KERNEL=="sd[b-z][0-9]", RUN+="/bin/mount -t auto -o rw,noauto,sync,dirsync,noexec,nodev,noatime /dev/%k /mnt/usb%n", OPTIONS="last_rule"

ACTION=="remove", KERNEL=="sd[b-z][0-9]", RUN+="/bin/umount -l /mnt/usb%n"

ACTION=="remove", KERNEL=="sd[b-z][0-9]", RUN+="/bin/rm /media/$env{ID_FS_LABEL}"

ACTION=="remove", KERNEL=="sd[b-z][0-9]", RUN+="/bin/rmdir /mnt/usb%n", OPTIONS="last_rule"

12/25/2011 03:10 pm - jams

- Target version changed from 8.0 to 6.00.04