Bash Script to rip CD/DVD ISO image on OS X

Apple's OS X has an easy way to rip a CD/DVD image using Disk Utility program. However, you'll end up with a file in that is not in ISO format, thus utterly useless if you want to re-use the file for virtualization purposes or on another operating system unable to handle those .cdr files.

For a one-shot option, OS X provides everything to convert the .cdr to .iso files, which is outlined at http://imacify.com/2013/06/how-to-create-iso-disc-image-from-cddvd-in-mac-os-x/.

If you do however plan to rip a lot (and I mean, a lot!) of CDs/DVDs to ISO files on OS X, here's a little bash script I came up with.

This script essentially does the following:

It waits for a disc to be inserted
 It scans the disk label and writes an ISO file to your ~/Desktop/rips directory using the dd command
 go back to 1 ;-)

So essentially, it's made to do mass ripping. I needed it for myself as I finally wanted to rip my gazillion of physical data CDs/DVDs onto my file server. And since I'm a lazy guy, the script shall do as much as possible by itself without bugging me too much ;-)

So if you think, that could be of use to you as well, here's a one-liner so you can call it up directly into your shell: wget -qO- http://phunsites.net/scripts/ripiso.sh.gz | gunzip | bash Calling the script like this, will assume non-interactive mode, i.e. the script will run endlessly and no questions will be asked. Press CTRL-C to terminate the script.

You could also run it interactively, the script will then ask some Y/N questions. To do so, download the script and run ith with the -i (interactive) argument like this:

wget -qO- http://phunsites.net/scripts/ripiso.sh.gz | gunzip > ripiso.sh ./ripiso -i

Here's also a direct download link: http://phunsites.net/scripts/ripiso.sh.gz, in case you want to inspect the script first.

The script tries to be somewhat informative, here's an example output of the non-interactive mode:

\$ wget -qO- http://phunsites.net/scripts/ripiso.sh.gz | gunzip | bash
Waiting for CD/DVD to be inserted ...
Found CD/DVD to be inserted ...

Unmounting disk from /Volumes/SOL_10_305_SPARC ... Volume SOL_10_305_SPARC on disk1s0 unmounted Ripping CD/DVD to /Users/Gianpaolo/Desktop/rips/SOL_10_305_SPARC.iso ... 0+0 records in 0+0 records out 0 bytes transferred in 0.043732 secs (0 bytes/sec) 14364+0 records in 14364+0 records out 7354368 bytes transferred in 5.015581 secs (1466304 bytes/sec) 33065+0 records in 33065+0 records out [... some output omitted ...] 1567823+0 records in 1567823+0 records out 802725376 bytes transferred in 420.424699 secs (1909320 bytes/sec) Ejecting CD/DVD ... Disk /dev/disk1 ejected CD/DVD rip completed after 425 seconds. Waiting for CD/DVD to be inserted ... Waiting for CD/DVD to be inserted ... Waiting for CD/DVD to be inserted ... Waiting for CD/DVD to be inserted ...

And here's also the source code of it for your convenience:

#!/bin/bash # # ripiso.sh # a helper script to easily rip inserted DVD/CD to an ISO file # # Copyright (c) 2014 Gianpaolo Del Matto, http://phunsites.net. All rights reserved. # Redistribution and use in source and binary forms, with or without modification, # are permitted provided that the following conditions are met: # # 1) Redistributions of source code must retain the above copyright notice, # this list of conditions and the following disclaimer. # # 2) Redistributions in binary form must reproduce the above copyright notice, # this list of conditions and the following disclaimer in the documentation # and/or other materials provided with the distribution. # # history: # #r0.1 2014/08/03 Gianpaolo Del Matto, http://phunsites.net # # # info: # # most current version is always available through: #

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```
# wget -qO- http://phunsites.net/scripts/ripiso.sh.gz | gunzip | bash
#
```

```
# local vars
#
force_non_interactive=1
```

sanity checks: create the output directory if missing
#
[! -d "~/Desktop/rips/"] && mkdir -p "~/Desktop/rips/"

parse cli args
#
[! -z "\$1" -a "\$1" = "-i"] && force_non_interactive=0

rip_iso will try to rip an ISO from any currently
inserted / mounted CD/DVD
#
function rip_iso {
 start=`date +%s`

```
# get disk info from inserted disk, bail out if none found
#
mountinfo=`mount | grep cd9660`
[ "$?" != "0" ] && { echo "error: no CD/DVD found"; return 1; }
```

```
devid=`echo ${mountinfo} | awk '{ print $1 }``
mountpoint=`echo ${mountinfo} | awk '{ print $3 }``
label=`basename ${mountpoint}`
blockdev=`echo ${devid} | sed 's/s[0-9]$//g'`
```

printf "Found CD/DVD disk=%s, volume=%s on %s from %snn" \${blockdev} \${label} \${mountpoint} \${devid}

```
while [ : ]; do
# skip this if we're running non-interactive
# assume the user wants it be done :-)
#
[ "${force_non_interactive}" = "1" ] && break
```

```
printf "Continue? [Y|n] "
read _answer < /dev/tty
echo ${_answer} | grep -E -i -e 'y$' > /dev/null 2>&1
[ "$?" = "0" ] && break || return 1
done
```

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```
printf "Unmounting disk from %s ...n" ${mountpoint}
diskutil unmount ${mountpoint}
```

```
printf "Ripping CD/DVD to %s ...n" ~/Desktop/rips/${label}.iso
dd if=$blockdev of=~/Desktop/rips/${label}.iso &
```

```
while [ : ]; do
clear
killall -SIGINFO dd > /dev/null 2>&1
[ "$?" != "0" ] && break
```

```
sleep 5
done
```

```
printf "Ejecting CD/DVD ...n"
diskutil eject ${blockdev}
```

```
end=`date +%s`
time_elapsed=`expr ${end} - ${start}`
printf "CD/DVD rip completed after %s seconds.n" ${time_elapsed}
```

```
return 0
```

```
# main
# ############
```

```
while [ : ]; do
# detect if mounted disk is seen
#
while [ : ]; do
clear
printf "Waiting for CD/DVD to be inserted ...n"
mount | grep cd9660 >/dev/null 2>&1
[ "$?" = "0" ] && break
sleep 1
done
```

```
# good, run the image ripper
#
rip_iso
```

```
# skip this if we're running non-interactive
# assume the user wants it be done :-)
#
if [ "${force_non_interactive}" = "0" ]; then
```

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```
# if we're running interactive, ask if
# user wants to rip another disc
#
printf "Rip another disc? [Y|n] "
read _answer < /dev/tty
echo ${_answer} | grep -E -i -e 'y$' > /dev/null 2>&1
[ "$?" != "0" ] && break
fi
done
```

END