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hdiutil

Manipulate disk images (attach, verify, burn, etc).

Syntax

hdiutil verb [options]

DESCRIPTION

hdiutil uses the DiskImages framework to manipulate disk images. Common verbs include attach, detach, verify, create, convert, compact, and burn.

The rest of the verbs are currently: help, info, checksum, chpass, erasekeys, unflatten, flatten, imageinfo, isencrypted, mountvol, unmount, plugins, udifrez, udifderez, internet-enable, resize, segment, makehybrid, and pmap.

BACKGROUND

Disk images are containers that emulate disks. Like disks, they can be partitioned and formatted. Many uses of disk images blur the distinction between the disk image container and its content, but this distinction is critical to understanding disk images. The terms "attach" and "detach" are used to distinguish the way disk images are connected to and disconnected from the system.

For example, when you double-click a d just like an external drive. Then, the kern understood, the associated volumes will Finder.

Always consider whether a "disk image image. For example, verify verifies that create -srcfolder creates a disk image on it, and then copies the specified files

COMMON OPTIONS

The following option desc

-verbose be verbose: prod This option can tion failed. At will be detailed

-quiet close stdout and indicate success -quiet.

-debug be very verbose.

progress informa
enables -verbose

Many hdiutil verbs unders

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Manage options

-plist

provide result output in plist format. Other programs invoking hdiutil are expected to use -plist rather than try to parse the human-readable output. The usual output is consistent but generally unstructured.

-puppetstrings

provide progress output that is easy for another program to parse. PERCENTAGE outputs can include the value -1 which means hdiutil is performing an operation that will take an indeterminate amount of time to complete. Any program trying to interpret hdiutil's progress should use -puppetstrings.

-srcimagekey key=value

specify a key/value pair for the disk image recognition system. (-imagekey is normally a synonym)

-tgtimagekey key=value

specify a key/value pair for any image created. (-imagekey is only a synonym if there is no input image).

-encryption [AES-128|AES-256]

specify a particular type of encryption or, if not specified, the default encryption algorithm. The default algorithm is the AES cipher with a 128-bit key.

-stdinpass read a null-terminated passphrase from standard input.

ge is "attached" to the system
If any file structures are

e-oriented) content of the created. On the other hand,

If the standard input is a tty, the passphrase will be read with readpassphrase(3). -stdinpass replaces -passphrase though the latter is still supported for compatibility. Beware that the password will contain any newlines before the NULL. See EXAMPLES.

-agentpass

force the default behavior of prompting for a passphrase. Useful with -pubkey to create an image protected by both a passphrase and a public key.

-recover keychain_file

specify a keychain containing the secret corresponding to the certificate specified with -certificate when the image was created.

-certificate cert_file

specify a secondary access certificate for an encrypted image. cert_file must be DER-encoded certificate data, which can be created by Keychain Access or openssl(1).

-pubkey PK1, PK2, ..., PKn

specify a list of public keys, identified by their hexadecimal hashes, to be used to protect the encrypted image being created.

-cacert cert specify a

specify a certificate authority certificate. cert can be either a PFM file or a directory of certificates pro-

cessed by curl(1).

-insecurehttp ignore SS

signed se unavailab server na

-shadow [shadowfile]

Use a shaprimary in the originattached image, blinder in the bandevice will specified shadow filtaking imprinsecure

Verbs that create images any filenames if the externation examines the changes its behavior accordated without specifying sparsebundle extension to

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VERBS

Each verb is listed with the verbs can be passed i

help Display minimal usage information for each verb. hdiutil verb -help will provide basic usage information for that verb.

attach image [options]

Attach a disk image as a device. attach will return information about an already-attached image as if it had attached it. mount is a poorly-named synonym for attach. See BACKGROUND.

Beware that an image freshly created and attached is treated as a new removable device. See hdid(8) and the EXAMPLES section below for more details about how owners are ignored on filesystems on such devices.

The output of attach has been stable since macOS 10.0 (though it was called hdid(8) then) and is intended to be program-readable. It consists of the /dev node, a tab, a content hint (if applicable), another tab, and a mount point (if any filesystems were mounted). Because content hints are derived from the partition data, GUID Partition Table types can leak through. Common GUIDs such as "48465300-0000-11AA-AA11-0030654" are mapped to their human-readable counterparts (here "Apple_HFS").

Common options: -encryption, -stdinpass, -recover, -imagekey, -shadow, -puppetstrings, and -plist.

Page 2 of 18

```
Options:
                     Force the resulting device to be read-only
-readonly
                     Attempt to override the DiskImages frame-
-readwrite
                     work's decision to attach a particular
                     image read-only. For example, -readwrite
                     can be used to modify the HFS filesystem on
                     a HFS/ISO hybrid CD image.
-nokernel
                     Attach with a helper process. This is
                     again the default as of macOS 10.5.
                     attempt to attach this image without a
-kernel
                     helper process; fail if unsupported. Only
                     UDRW, UDRO, UDZO, and UDSP images are sup-
                     ported in-kernel. Encryption and HTTP-
                     backed images are also supported.
-notremovable
                     Prevent this image from being detached.
                     Only root can use this option.
-mount required|optional|suppressed
                     Indicate whether filesystems in the image
                     should be mounted or not. The default is
                     required (attach will fail if no filesys-
                     tems mount).
                     Identical to -mount suppressed.
-nomount
-mountroot path
                     mount volumes on subdirectories of path
                     instead of under /Volumes. path must
-mountrandom p
                                          (SS64)
-mountpoint pa
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-drivekey key=
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                     and cookie settings.
the positive a
-[no]verify
                    its timestamp changes.
                    To maintain backwards compatibility,
                   hdid(8) does not attempt to verify images
                    before attaching them.
                    Preferences keys: skip-verify, skip-verify-
                   remote, skip-verify-locked, skip-previously-
                   verified
-[no]ignorebadchecksums
                   specify whether bad checksums should be ignored.
                   The default is to cancel when a bad
                    checksum is detected.
                   Preferences key: ignore-bad-checksums
                   do [not] auto-open volumes (in the Finder) after attaching
-[no]autoopen
                   an image. By default, dou ble-clicking a read-only
                   disk image causes the resulting volume to be opened in the
                   Finder. hdiutil defaults to -noautoopen.
-[no]autoopenro
                   do [not] auto-open read-only volumes.
                   Preferences key: auto-open-ro-root
-[no]autoopenrw
                   do [not] auto-open read/write volumes.
                   Preferences key: auto-open-rw-root
-[no]autofsck
                   do [not] force automatic file system check-
                   ing before mounting a disk image. By
                   default, only quarantined images (e.g. down-
                   loaded from the Internet) that have not pre-
                   viously passed fsck are checked.
```

Preferences key: auto-fsck

detach dev_name [-force]

detach a disk image and terminate any associated process. dev_name is a partial /dev node path (e.g. "disk1"). As of OS X 10.4, dev_name can also be a mountpoint. If Disk Arbitration is running, detach will use it to unmount any filesystems and detach the image. If not, detach will attempt to unmount any filesystems and detach the image directly (using the 'eject' ioctl). If Disk Arbitration is not running, it can be necessary to unmount the filesystems with umount(8) before detaching the image. eject is a synonym for detach.

Options:

-force ignore open files on mounted volumes, etc.

verify image [options]

compute the checksum of a "read-only" or "compressed" image and verify it against the value stored in the image.

Read/write images don't contain checksums and thus can't be verified. verify accepts the common options -encryption, -stdinpass, -srcimagekey, -puppetstrings, and -plist.

create size_spec image

create a new image of the given size or from the provided data. If image already exists, -ov must be specified or create will fail. To make a cross-platform CD or DVD, use makehybrid instead. See also FXAMDLES below

The size speci Filesystem and (SS64) default GPTSPU for the filesy Size specifier SS64.com asks for your consent to use your -size ??b|??k| personal data to: Spe mkf exa Personalised advertising and content, advertising and content of measurement, audience research and services development ful -sectors *secto* Store and/or access information on a device Spe

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-srcfolder sou

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less free space in the resulting filesystem.
-srcfolder can be specified more than once, in
which case the image volume will be populated at
the top level with a copy of each specified
filesystem object. -srcdir is a synonym.
-srcdevice

specifies that the blocks of device should be used

to create a new image. The image size will match the size of device. resize can be used to adjust the size of resizable filesystems and writable images. Both -srcdevice and -srcfolder can run into errors if there are bad blocks on a disk. One way around this problem is to write over the files in question in the hopes that the drive will remap the bad blocks. Data will be lost, but the image

creation operation will subsequently succeed.
Filesystem options (like -fs, -volname, -stretch, or -size) are invalid and ignored when using -srcdevice.

Common options: -encryption, -stdinpass, -certificate, -pubkey, -imagekey, -tgtimagekey, -puppetstrings, and -plist.

-imagekey di-sparse-puma-compatible=TRUE and -imagekey
di-shadow-puma-compatible=TRUE will create, respectively, sparse and
shadow images that can be attached on macOS 10.1.

```
-imagekey encrypted-encoding-version can select between version 1 and version 2
of the encrypted encoding. The framework preferences have a corresponding
key to change the default for all images.
Version 2 is not compatible with macOS 10.2 but is more robust for
SPARSE (UDSP) images. Version 1 is the default for non-sparse images.
As of macOS 10.4.7, sparse encrypted images always use version 2 and as
of macOS 10.5, all encrypted images default to version 2.
General options:
-align alignment
           specifies a size to which the final data partition
           will be aligned. The default is 4K.
-type UDIF|SPARSE|SPARSEBUNDLE
           -type is particular to create and is used to specify
           the format of empty read/write images. It is inde-
           pendent of -format which is used to specify the
           final read-only image format when populating an
           image with pre-existing content.
           UDIF is the default type. If specified, a UDRW of
           the specified size will be created. SPARSE creates
           a UDSP: a read/write single-file image which expands
           as is is filled with data. SPARSEBUNDLE creates a
           UDSB: a read/write image backed by a directory bun-
           By d
           Intr
                                           (SS64)
           whic
           spar
           numb
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           time
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-fs filesystem
                     Some vendors may process your personal data on the basis of legitimate
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           HFS
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                     and cookie settings.
           imag
           appr
           ment
           fied
           and
-volname volna
           The
           HFS+'s default volume name is `untitled'. -volname
           is invalid and ignored when using -srcdevice.
          the root of the newly-created volume will be owned
           by the given numeric user id. 99 maps to the magic
           `unknown' user (see hdid(8)).
           the root of the newly-created volume will be owned
-gid gid
           by the given numeric group id. 99 maps to
           `unknown'.
-mode mode the root of the newly-created volume will have mode
           (in octal) mode. The default mode is determined by
           the filesystem's newfs unless -srcfolder is speci-
           fied, in which case the default mode is derived from
           the specified filesystem object.
-[no]autostretch
           do [not] suppress automatically making backwards-
           compatible stretchable volumes when the volume size
           crosses the auto-stretch-size threshold (default:
           256 MB). See also asr(8).
-stretch max_stretch
           -stretch initializes HFS+ filesystem data such that
           it can later be stretched on older systems (which
           could only stretch within predefined limits) using
           hdiutil resize or by asr(8). max_stretch is specified like -size. -stretch is invalid and ignored
```

when using -srcdevice.

-fsargs newfs_args

additional arguments to pass to whatever newfs program is implied by -fs. newfs_hfs(8) has a number of options that can reduce the amount of space needed by the filesystem's data structures. Suppressing the journal with -fs HFS+ and passing arguments such as -c c=64,a=16,e=16 to -fsargs will minimize gaps at the front of the filesystem, allowing resize to squeeze more space from the filesystem. For truly optimal filesystems, use makehybrid.

-layout *layout*

Specify the partition layout of the image. layout can be anything supported by MediaKit.framework. NONE creates an image with no partition map. When such an image is attached, a single /dev entry will be created (e.g. /dev/disk1).

'SPUD' causes a DDM and an Apple Partition Scheme partition map with a single entry to be written. 'GPTSPUD' creates a similar image but with a GUID Partition Scheme map instead. When attached, multiple /dev entries will be created, with either slice 1 (GPT) or slice 2 (APM) as the data partition. (e.g. /dev/disk1, /dev/disk1s1, /dev/disk1s2).

Unless overridden by -fs, the default layout is 'GPTSDIID' (DDC systems used 'SDIID' prior 10.6 crea (SS64) -library bundl spec Medi SS64.com asks for your consent to use your personal data to: -partitionType Chan disk Personalised advertising and content, advertising and content impl measurement, audience research and services development -ov over Store and/or access information on a device over ified -attach atta via equired behavior. Your personal data will be processed and information from your device (cookies, unique identifiers, and other device data) may be stored by, Image from sou accessed by and shared with 134 TCF vendor(s) and 63 ad partner(s), or -format format used specifically by this site or app. Some vendors may process your personal data on the basis of legitimate interest, which you can object to by managing your options below. Look for a link at the bottom of this page to manage or withdraw consent in privacy and cookie settings. Options specif -segmentSize s bigger Options specif -[no]crossdev

-[no]scrub

Do [not] skip temporary files when imaging a volume. Scrubbing is the default when the source is the root

of a mounted volume.

Scrubbed items include trashes, temporary directories, swap files, etc.

-[no]anyowners Do not fail if the user invoking hdiutil can't ensure correct file ownership for the files in the image.

-skipunreadable Skip files that can't be read by the copying user and don't authenticate.

-[no]atomic

Do [not] copy files to a temporary location and then rename them to their destination. Atomic copies are the default. Non-atomic copying may be slightly faster.

-copyuid *user*

Perform the copy as the given user. Requires root privilege. If user can't read or create files with the needed owners, -anyowners or -skipunreadable must be used to prevent the operation from failing.

By default, create -srcfolder attempts to maintain the permissions present in the source directory. It prompts for authentication if it detects an unreadable file, a file owned by someone other than the user creating the image, or a SGID file in a group that the copying user is not in.

```
convert image -format format -o outfile
            convert image to type format and write the result to outfile.
            As with create, the correct filename extension will be added only if it isn't part
            of the provided name. Format is one of:
                  UDRW - UDIF read/write image
                  UDRO - UDIF read-only image
                  UDCO - UDIF ADC-compressed image
                  UDZO - UDIF zlib-compressed image
                   ULFO - UDIF lzfse-compressed image (OS X 10.11+ only)
                   ULMO - UDIF lzma-compressed image (macOS 10.15+ only)
                   UDBZ - UDIF bzip2-compressed image (deprecated)
                   UDTO - DVD/CD-R master for export
                   UDSP - SPARSE (grows with content)
                  UDSB - SPARSEBUNDLE (grows with content; bundle-backed)
                  UFBI - UDIF entire image with MD5 checksum
           In addition to the compression offered by some formats, the UDIF read-only format skips
           unused space in HFS, APFS, ExFAT, and MS-DOS (FAT, FAT32) filesystems.
           For UDZO, -imagekey zlib-level=value allows the zlib compression level to be specified
           a la gzip(1). The default compression level is 1 (fastest).
            Common options: -encryption, -stdinpass, -certificate,
            -srcimagekey, -tgtimagekey, -shadow and related,
            -puppetstrings, and -plist.
            Other options:
            -align alignme
                                                      (SS64)
            -pmap
                                    SS64.com asks for your consent to use your
                                                  personal data to:
            -segmentSize
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            -tasks task_co
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                                                                                           ent system.
                                 interest, which you can object to by managing your options below. Look for
                                 a link at the bottom of this page to manage or withdraw consent in privacy
burn image
                                 and cookie settings.
            Burn image to
            In all cases,
                                                                                           ive has been found.
            Common options
                                                                                           strings, and -stdinpass.
            Other options:
            -device
            -testburn
                               explicitly allow burning to devices not qual-
            -anydevice
                               ified by Apple (kept for backwards compati-
                               bility as burn will burn to any device by
                               default as of macOS 10.4).
            -[no]eject
                               do [not] eject disc after burning. The
                               default is to eject the disc.
                              do [not] verify disc contents after burn.
            -[no]verifvburn
                               The default is to verify.
            -[no]addpmap
                               do [not] add partition map if necessary.
                               Some filesystem types will not be recognized
                               when stored on optical media unless they are
                               enclosed in a partition map. This option
                               will add a partition map to any bare filesys-
                               tem which needs a partition map in order to
                               be recognized when burned to optical media.
                               The default is to add the partition map if
                               needed.
            -[no]skipfinalfree do [not] skip final free partition. If
                               there is a partition map on the image speci-
                               fying an Apple_Free partition as the last
                               partition, that Apple_Free partition will not
```

be burned. The burned partition map will still reference the empty space. The default

is to skip burning a final free partition.

-[no]optimizeimage do [not] optimize filesystem for burning.

Optimization can reduce the size of an HFS or

HFS+ volume to the size of the data contained

on the volume. This option will change what

is burned such that the disc will have a dif
ferent checksum than the image it came from.

The default is to burn all blocks of the disk

image (minus any trailing Apple_Free).

disc.

-nounderrun Disable the default buffer underrun protec-

tion.

-[no]synthesize [Don't] Synthesize a hybrid filesystem for the disc. The default is to create a new

(HFS/ISO) filesystem when the source image's blocks could not be legally burned to a disc.

-speed *x_factor* 1, 2, 4, 6, ... `max'

-sizequery

-fullerase

drutil(1) can

-erase

The desired "x-factor". e.g. 8 means the

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makehybrid -o image sourc
Generate a pot
image using th
system. This

-list

source can either be a directory or a disk image. The generated image can later be burned using burn, or converted to another read-only format with convert. By default, the filesystem will be readable on most modern computing platforms. The generated filesystem is not intended for conversion to read/write, but can safely have its files copied to a read/write filesystem using ditto(8).

hdiutil supports generating El Torito-style bootable ISO9660 filesystems, which are commonly used for booting x86-based hardware. The specification includes several emulation modes. By default, an El Torito boot image emulates either a 1.2MB, 1.44MB, or 2.88MB floppy drive, depending on the size of the image. Also available are "No Emulation" and "Hard Disk Emulation" modes, which allow the boot image to either be loaded directly into memory, or be virtualized as a partitioned hard disk, respectively. The El Torito options should not be used for data CDs.

Filesystem options:

-hfs Generate an HFS+ filesystem.

This filesystem can be present on an image simultaneously with an ISO9660 or Joliet or UDF filesystem. On Operating Systems that understand HFS+ as well as ISO9660 and UDF, like Mac OS 9 or OS X, HFS+ is usually the preferred filesystem for hybrid images.

-iso Generate an ISO9660 Level 2 filesystem with Rock Ridge extensions.

This filesystem can be present on an image simultaneously with an HFS+ or Joliet or UDF filesystem. ISO9660 is the standard cross-platform interchange format for CDs and some DVDs, and is understood by virtually all Operating Systems.

If an ISO9660 or Joliet filesystem is present on a disk image or CD, but not HFS+, OS X will use the ISO9660 (or Joliet) filesystem.

```
-joliet Generate Joliet extensions to ISO9660.
        This view of the filesystem can be present on an image simultaneously with HFS+,
        and requires the presence of an ISO9660 filesystem.
        Joliet supports Unicode filenames, but is only supported on some Operating Systems.
        If both an ISO9660 and Joliet filesystem are present on a disk image
        or CD, but not HFS+, OS X will prefer the Joliet filesystem.
        Generate a UDF filesystem. This filesystem can be present on an image
-udf
        simultaneously with HFS+, ISO9660, and Joliet. UDF is the standard interchange
        format for DVDs, although Operating System support varies based on OS version
        and UDF version.
By default, if no filesystem is specified, the image will be created with all four
filesystems as a hybrid image. When multiple filesystems are selected, the data area
of the image is shared between all filesystems, and only directory information and
volume meta-data are unique to each filesystem. This means that creating a
cross-platform ISO9660/HFS+ hybrid has a minimal overhead when compared to a
single filesystem image.
Other options (most take a single argument):
-hfs-blessed-directory Path to directory which should be "blessed" for OS X booting
                        on the generated filesystem.
                        This assumes the directory has been otherwise prepared,
                        for example with bless -bootinfo to create a valid BootX file.
                        (HFS+ only).
-hfs-openfolder
                        Path to a directory that will be opened by the Finder
                        automatically. See also the -openfolder option in bless(8)
-hfs-startupfi
                                                                            fied size,
                                         (SS64)
-abstract-file
                                                                             the root of the generated
                                                                            ct file
                       SS64.com asks for your consent to use your
                                                                             the root of the generated
-bibliography-
                                    personal data to:
                                                                            graphy file
                                                                             the root of the generated
-copyright-fil
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                          measurement, audience research and services development
-application
                          Store and/or access information on a device
-preparer
-publisher
-system-id
                    Your personal data will be processed and information from your device
                                                                            e) in non-HFS+ filesystems
-keep-mac-spec
                    (cookies, unique identifiers, and other device data) may be stored by,
                    accessed by and shared with 134 TCF vendor(s) and 63 ad partner(s), or
-eltorito-boot
                                                                            e directory. By default,
                    used specifically by this site or app.
                                                                            t be one of 1200KB, 1440KB, or
                    Some vendors may process your personal data on the basis of legitimate
                                                                             r -no-emul-boot or
                    interest, which you can object to by managing your options below. Look for
                                                                            tion" or "Hard Disk Emulation"
                    a link at the bottom of this page to manage or withdraw consent in privacy
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-hard-disk-boo
                                                                            n MBR partition map and a
                                                                            ware will load the number of
-no-emul-boot
                                                                             it, without emulating any
-no-boot
                                                                            stem firmware can still
                                                                            s option is not recommended
                        (ISO9660/Joliet).
                        For a No Emulation boot image, load the data at the specified segment address.
-boot-load-seq
                        This options is not recommended, so that the system firmware can use its
                        default address (ISO9660/Joliet)
                        For a No Emulation boot image, load the specified number of 512-byte emulated
-boot-load-size
                        sectors into memory and execute it. By default, 4 sectors (2KB) will be loaded
                        (IS09660/Joliet).
                        Use the specified numeric platform ID in the El Torito Boot Catalog Valida-
-eltorito-platform
                        tion Entry or Section Header. Defaults to 0 to identify x86 hardware
                        (ISO/Joliet).
-eltorito-specification For complex layouts involving multiple boot images, a plist-formatted string
                        can be provided, using either OpenStep-style syntax or XML syntax, represent-
                        ing an array of dictionaries. Any of the El Torito options can be set in the
                        sub-dictionaries and will apply to that boot image only. If
                        -eltorito-specification is provided in addition to the normal El Torito com-
                        mand-line options, the specification will be used to populate secondary non-
                        default boot entries.
                        Version of UDF filesystem to generate.
-udf-version
                        This can be either "1.02" or "1.50". If not specified, it defaults to "1.50"
                        (UDF).
                        Default volume name for all filesystems, unless overridden.
-default-volume-name
                        If not specified, defaults to the last path component of source.
                        Volume name for just the HFS+ filesystem if it should be different
-hfs-volume-name
                        (HFS+ only).
```

-iso-volume-name

Volume name for just the ISO9660 filesystem if it should be different

(IS09660 only). -joliet-volume-name Volume name for just the Joliet filesystem if it should be different (Joliet only). -udf-volume-name Volume name for just the UDF filesystem if it should be different (UDF only). -hide-all A glob expression of files and directories that should not be exposed in the generated filesystems. The string might need to be quoted to avoid shell expansion, and will be passed to glob(3) for evaluation. Although this option cannot be used multiple times, an arbitrarily complex glob expression can be used. -hide-hfs A glob expression of files and directories that should not be exposed via the HFS+ filesystem, although the data can still be present for use by other filesystems (HFS+ only). A glob expression of files and directories that should not -hide-iso be exposed via the ISO filesystem, although the data can still be present for use by other filesystems (ISO9660 only). Per above, the Joliet hierarchy will supersede the ISO hierarchy when the hybrid is mounted as an ISO 9660 filesystem on macOS. Therefore, if Joliet is being generated (the default) -hide-joliet will also be needed to hide the file from mount_cd9660(8). -hide-joliet A glob expression of files and directories that should not be exposed via the Joliet filesystem, although the data can still be present for use by other filesystems (Joliet only). Because OS X's ISO 9660 filesystem uses the Joliet catalog if it is available, -hide-joliet effectively supersedes n when the resulting filesystem is mounted as ISO on macOS. -hide-udf should not data can DF only). (SS64) -only-udf exposed in UDF. exposed in ISO. -only-iso -only-joliet exposed in Joliet. SS64.com asks for your consent to use your personal data to: -print-size Personalised advertising and content, advertising and content measurement, audience research and services development -plistin standard plist Store and/or access information on a device f the hybrid image a key in the ue should be for number arguments, Your personal data will be processed and information from your device gument should use a (cookies, unique identifiers, and other device data) may be stored by, f "output". accessed by and shared with 134 TCF vendor(s) and 63 ad partner(s), or used specifically by this site or app. If a disk imag d paths will be Some vendors may process your personal data on the basis of legitimate evaluated rela an be used in interest, which you can object to by managing your options below. Look for o files or directories this case. If a link at the bottom of this page to manage or withdraw consent in privacy either via an ing directory. and cookie settings. The volume nam o be mapped onto the legal char obey naming restrictions. en string would be remapped. The -abstractdirectly in the source directory, not ity with ISO9660 Level 1. scans the bands of a sparse (SPARSE or SPARSEBUNDLE) disk image containing an APFS or HFS+ filesystem, removing those parts of the image which are no longer being used by the filesystem. Depending on the location of files in the hosted filesystem, compact may or may not shrink the image. For SPARSEBUNDLE images, completely unused band files are simply removed.

compact image options

Options:

-batteryallowed Allow compacting on battery power.

SPARSE images could be damaged if power is lost during a compact operation.

The default is not allowed.

Allow machine to idle sleep while compacting, which cancels the compact operation. -sleepallowed

The default is not allowed, which prevents idle sleep until

compact completes.

User-initiated sleep, such as a lid close, will always cancel compact.

Common options: -encryption, -stdinpass, -srcimagekey, -shadow and related, -puppetstrings, and -plist.

display information about DiskImages.framework, the disk image driver, and any images that are info currently attached. hdiutil info accepts -plist.

checksum image -type type

Calculate the specified checksum on the image data, regardless of image type.

Common options: -shadow and related, -encryption, -stdinpass,

-srcimagekey, -puppetstrings, and -plist.

```
type is one of:
                   UDIF-CRC32 - CRC-32 image checksum
                   UDIF-MD5 - MD5 image checksum
                   DC42 - Disk Copy 4.2
                   CRC28 - CRC-32 (NDIF)
                   CRC32 - CRC-32
                   MD5 - MD5
                   SHA - SHA
                   SHA1 - SHA-1
                   SHA256 - SHA-256
                   SHA384 - SHA-384
                   SHA512 - SHA-512
chpass image
             change the passphrase for an encrypted image. The default is
             to change the password interactively.
             Common options: -recover and -srcimagekey. The options
             -oldstdinpass and -newstdinpass allow, in the order specified,
             the null-terminated old and new passwords to be read from the
             standard input in the same manner as with -stdinpass.
erasekeys image
             securely overwrite keys used to access an encrypted image,
            quickly rendering the image completely inacces
             erasekeys has
             sible way to r
                                                         (SS64)
            Common options
unflatten image
                                      SS64.com asks for your consent to use your
            unflatten a UD
                                                     personal data to:
             image file (no
            tation of the
             tion will fail
                                         Personalised advertising and content, advertising and content
                                         measurement, audience research and services development
             Common options
                                         Store and/or access information on a device
flatten image
             Flatten a read
            single-fork fi
             XML (for the k
                                   Your personal data will be processed and information from your device
             (for macOS 10.
                                   (cookies, unique identifiers, and other device data) may be stored by,
                                   accessed by and shared with 134 TCF vendor(s) and 63 ad partner(s), or
             Common options
                                   used specifically by this site or app.
             Since images a
                                   Some vendors may process your personal data on the basis of legitimate
             required if th
                                   interest, which you can object to by managing your options below. Look for
                                   a link at the bottom of this page to manage or withdraw consent in privacy
            Other options:
                                   and cookie settings.
             -noxml
             -norsrcfork do
                          no
fsid image
            Print informat
            As usual, image
             cal disk. See the NOTE ON DEV ENTRY ACCESS section. More
             detailed information is presented for HFS file systems.
             Common options: -encryption, -stdinpass, -srcimagekey, and
             -shadow and related.
```

mountvol dev_name

mount the filesystem in dev_name using Disk Arbitration (similar to diskutil(8)'s mount). XML output is available from -plist. Note that mountvol (rather than mount, though it often works in macOS 10.5 and later) is the correct way to remount a volume after it has been unmounted by unmount.

Prior to macOS 10.5, mount/attach would treat a /dev entry as a disk image to be attached (creating another /dev entry). That behavior was undesirable.

unmount *volume* [-force]

unmount a mounted volume without detaching any associated image. Volume is a /dev entry or mountpoint. NOTE: unmount does NOT detach any disk image associated with the volume. Images are attached and detached; volumes are mounted and unmounted. mountvol will remount a volume that has been unmounted by unmount.

Options:

-force unmount filesystem regardless of open files on that filesystem. Similar to umount -f.

imageinfo image

Print out information about a disk image.

Common options: -encryption, -stdinpass, -srcimagekey, -shadow and related, and -plist.

Options are any of:

-format just print out the image format

-checksum just print out the image checksum

isencrypted image

print a line indicating whether image is encrypted. If it is, additional details are printed.

Common options: -plist.

plugins

print information about DiskImages framework plugins. The user, system, local, and network domains are searched for plugins (i.e. ~/Library/Plug-ins/DiskImages, /System/Library/Plug-ins/DiskImages, /Library/Plug-ins/DiskImages, /Network/Library/Plug-ins/DiskImages).

Common options; -nlist

internet-enable [-yes] |

Enable or disa the default. will "unpack" be copied into image will be

Common options -plist.

resize size_spec image

Resize a disk containing a tresize the ima within it by a the end of the tems other tha

resize can shr be converted to hdiutil resize data. diskuti help hdiutil re can also be use

resize is limit UDSP vs. UDSB) and the filesy inside of GPT space, the limit created with a (SS64)

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Before macOS 10.4, resize was limited by how the filesystem was created (see hdiutil create -stretch).

hdiutil burn does not burn Apple_Free partitions at the end of the devices, so an image with a resized filesystem can be burned to create a CD-R/DVD-R master that contains only the actual data in the hosted filesystem (assuming minimal data fragmentation).

Common options: -encryption, -stdinpass, -srcimagekey, -shadow and related, and -plist.

Size specifiers:

-size ??b|??k|??m|??g|??t??p|??e

-sectors sector_count | min

Specify the number of 512-byte sectors to which the partition should be resized. If this falls outside the mininum valid value or space remaining on the underlying file system, an error will be returned and the partition will not be resized. min automatically determines the smallest possible size.

Other options:

-imageonly

only resize the image file, not the partition(s) and filesystems inside of it.

only resize a partition / filesystem in the image, not the image. -partitiononly will

-partitiononly

-endoffsets

-shims

-uuids

-nofreespace

fail if the new size won't fit inside the image. On APM, shrinking a partition results in an explicit Apple_Free entry taking up the remaining space in the image. -partitionNumber partitionNumber specifies which partition to resize (UDIF only -- see HISTORY below). partitionNumber is 0-based, but, per hdiutil pmap, partition 0 is the partition map itself. -growonly only allow the image to grow only allow the image to shrink -shrinkonly -nofinalgap allow resize to entirely eliminate the trailing free partition in an APM map. Restoring such images to very old hardware can interfere with booting. -limits Displays the minimum, current, and maximum sizes (in 512-byte sectors) for the image. In addition to any hosted filesystem constraints, UDRW images are constrained by available disk space in the filesystem hosting the image. -limits does not modify the image. segment segment -o fir segment -o fir (SS64) segment a NDIF around limitat filesystems, n SS64.com asks for your consent to use your not the segmen personal data to: passed to segm Common options Personalised advertising and content, advertising and content -tgtimagekey, measurement, audience research and services development Options: Store and/or access information on a device -segmentCount -segmentSize s Your personal data will be processed and information from your device (cookies, unique identifiers, and other device data) may be stored by, accessed by and shared with 134 TCF vendor(s) and 63 ad partner(s), or used specifically by this site or app. Some vendors may process your personal data on the basis of legitimate interest, which you can object to by managing your options below. Look for a link at the bottom of this page to manage or withdraw consent in privacy and cookie settings. -firstSegmentS -restricted overwrite any existing files. -ov pmap [options] image display the partition map of an image or device. By default this report includes starting offsets and significant amounts of free space. image is either a plain or special file (for example, a /dev/disk entry). See NOTE ON DEV ENTRY ACCESS. Common options: -encryption, -stdinpass, -srcimagekey, and -shadow and related. -simple generate MediaKit's minimal report: basic partition types, names, and sizes in human-readable units. generate MediaKit's standard report, which adds -standard partition offsets and uses 512-byte sectors. generate MediaKit's comprehensive report, with -complete end offsets, significant free space, etc.

Page 13 of 18

indicate last block of each partition.

report free space < 32 sectors.

randomly generated for APM maps.

with -shims.

suppress all free space reporting. Not valid

show per-instance UUIDs for each partition. APM

does not store instance UUIDs so these will be

```
udifrez [options] image
                 embed resources (e.g. a software license agreement) in a disk
                 image.
                 You must specify one of the following options:
                 -xml file
                       Copy resources from the XML in file.
                 -rsrcfork file
                       Copy resources from file's resource fork.
                 -replaceall
                       Delete all pre-existing resources in image.
     udifderez [options] image
                 extract resources from image.
                 Options:
                 -xml
                          emit XML output (default)
                          emit Rez format output
                 -rez
                 Common options: -encryption, -stdinpass, and -srcimagekey.
EXAMPLES
     Verifying:
            hdiutil verify myimage.img
                  verifies an image an
     Segmenting:
            hdiutil segment -se
                                                            (SS64)
                  creates aseg.
     Converting:
                                         SS64.com asks for your consent to use your
            hdiutil convert mas
                                                        personal data to:
                  converts mast
            hdiutil convert /de
                  converts the
                                            Personalised advertising and content, advertising and content
                  file. author
                                            measurement, audience research and services development
                  is not availa
                                            Store and/or access information on a device
     Burning:
            hdiutil burn myImag
                  burns the ima
            hdiutil burn myRawI
                                       Your personal data will be processed and information from your device
                  burns the ima
                                       (cookies, unique identifiers, and other device data) may be stored by,
                  disc. Volume
                                       accessed by and shared with 134 TCF vendor(s) and 63 ad partner(s), or
                                       used specifically by this site or app.
     Creating a 50 MB encrypte
                                       Some vendors may process your personal data on the basis of legitimate
            hdiutil create -enc
                                       interest, which you can object to by managing your options below. Look for
                                       a link at the bottom of this page to manage or withdraw consent in privacy
     Creating a 50 MB encrypte
                                       and cookie settings.
            hdiutil create -enc
                -pubkey F534A3B
     Creating a 50 MB encrypte
            hdiutil create -enc
                -pubkey F534A3B
     Note that these two -pubk
     sponding to this public key is currently in the user's keychain or smart
     card. For additional information on smart card authorization setup see
     sc_autch(8).
     Creating an encrypted single-partition image without user interaction:
            printf pp|hdiutil create -encryption -stdinpass -size 9m sp.dmg
     Creating a "1 GB" SPARSE image (a 1 GB filesystem in a growable file):
            hdiutil create -type SPARSE -size 1g -fs HFS+ growableTo1g
     Creating a "1 GB" SPARSEBUNDLE (a 1 GB filesystem in a growable bundle):
            hdiutil create -type SPARSEBUNDLE -size 1g -fs HFS+ growableTo1g
     Creating a new mounted volume backed by an image:
            hdiutil create -volname Dick -size 1.3m -fs HFS+ -attach Moby.dmg
     Using a shadow file to attach a read-only image read-write to modify it,
     then convert it back to a read-only image. This method eliminates the
     time/space required to convert a image to read-write before modifying it.
            hdiutil attach -owners on Moby.dmg -shadow
            /dev/disk2 Apple_partition_scheme
            /dev/disk2s1 Apple_partition_map
            /dev/disk2s2 Apple_HFS
                                                     /Volumes/Moby
```

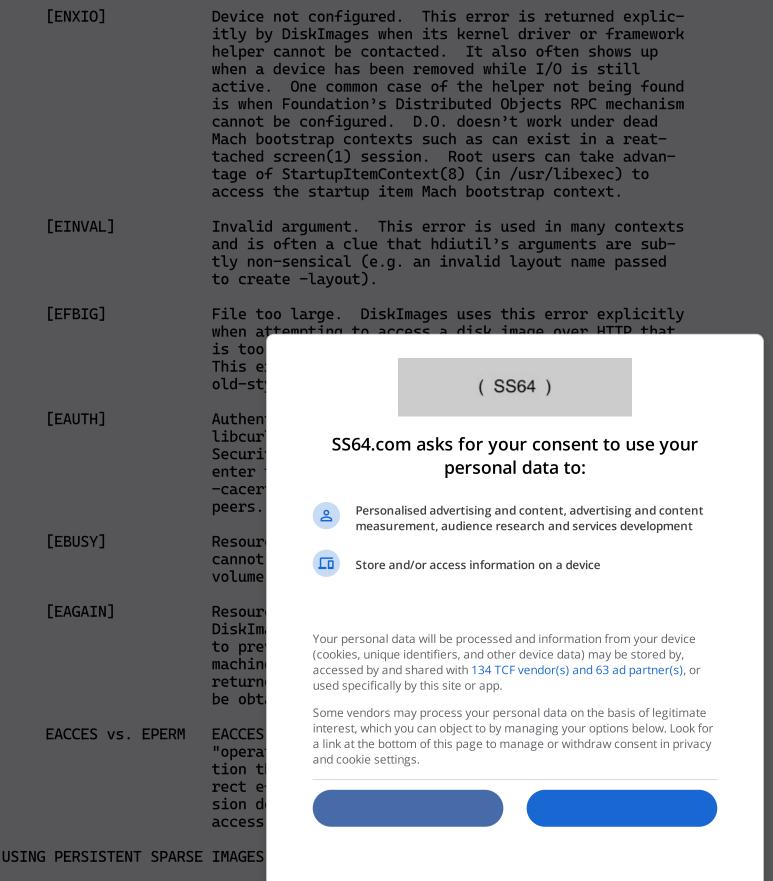
ditto /Applications/Preview.app /Volumes/Moby

```
hdiutil detach /dev/disk2
            hdiutil convert -format UDZO Moby.dmg -shadow
     Using makehybrid to create cross-platform data with files overlapping
     between filesystem views. With these files:
                                                                          song8.mp3
            albumlist.txt song2.wma
                                           song4.m4a
                                                           song6.mp3
            song1.wma
                           song3.m4a
                                           song5.mp3
                                                           song7.mp3
            hdiutil makehybrid -o MusicBackup.iso Music -hfs -iso -joliet \
                -hide-hfs 'Music/*.wma' -hide-joliet 'Music/{*.m4a,*.mp3}' \
                -hide-iso 'Music/*.{wma,m4a}'
     will create an image with three filesystems pointing to the same blocks.
     The HFS+ filesystem, typically only visible on Macintosh systems, will
     not include the .wma files, but will show the .m4a and .mp3 files. The
     Joliet filesystem will not show the .m4a and .mp3 files, but will show
     the .wma files. The ISO9660 filesystem, typically the default filesystem
     for optical media on many platforms, will only show the .mp3 files. All three filesystems will include the "albumlist.txt" files.
     Image from directory (new-style):
            hdiutil create -srcfolder mydir mydir.dmg
     Image from directory (10.1-style; of historical interest):
            du -s myFolder
                                          # du(1) will count resource forks
            10542
            hdiutil create -sectors 10642 folder
            hdid -nomount folde
            /dev/disk1s2
                                                            (SS64)
            newfs_hfs -v myFold
            hdiutil detach disk
            hdid folder.dmg
                                          SS64.com asks for your consent to use your
                                                        personal data to:
            /dev/disk1s2
            sudo mount -u -t hf
            # optionally enable
                                             Personalised advertising and content, advertising and content
                                             measurement, audience research and services development
            ditto -rsrcFork myF
            hdiutil detach disk
                                             Store and/or access information on a device
            hdiutil convert -fo
     Manually changing ownersh
            hdiutil attach myim
                                       Your personal data will be processed and information from your device
                                       (cookies, unique identifiers, and other device data) may be stored by,
            /dev/disk1s2
                                       accessed by and shared with 134 TCF vendor(s) and 63 ad partner(s), or
            diskutil unmount di
                                       used specifically by this site or app.
            mkdir /Volumes/myVo
                                       Some vendors may process your personal data on the basis of legitimate
            sudo mount -r -t hf
                                       interest, which you can object to by managing your options below. Look for
            # -o owners is the
                                       a link at the bottom of this page to manage or withdraw consent in privacy
                                       and cookie settings.
     Forcing a known image to
            hdiutil attach -ima
ENVIRONMENT
     The following environment
     com_apple_hdid_verbose
                 enable -verbose behavior for attach.
     com_apple_hdid_debug
                 enable -debug behavior for attach.
     com_apple_hdid_nokernel
                  similar to -nokernel but works even with, for example, create
                  -attach.
     com_apple_hdid_kernel
                 attempt to attach in-kernel first (like attach -kernel). In OS
                 X 10.4.x, in-kernel was the default behavior for UDRW and
                 SPARSE images. On macOS 10.5, these and other kernel-compati-
                  ble images, including RAM-based images described in hdid(8),
                  will attach with a user process unless attach -kernel is used
                  or the corresponding variable is set. If an image is not
                  "kernel-compatible" and -kernel is specified, the attach will
                  fail. (WARNING: ram:// images currently use wired memory when
                  attached in-kernel).
     com_apple_diskimages_insecureHTTP
                 disable SSL peer verification the same way -insecurehttp does.
```

Useful for clients of DiskImages such as asr(8) which don't

support a similar command line option.

DiskImages uses many frameworks and can encounter many error codes. In general, it tries to turn these error numbers into localized strings for the user. For background, intro(2) is a good explanation of our primary error domain: the BSD errno values. For debugging, -verbose should generally provide enough information to figure out what has gone wrong. The following is a list of interesting errors that hdiutil can encounter:



As of macOS 10.5, a more reliable, efficient, and sound opened formula, obed (or necessary), to recommended for persistent sparse images as long as a backing bundle (directory) is acceptable. macOS 10.5 also introduced

F_FULLFSYNC over AFP (on client and server), allowing proper journal flushes for HFS+J-bearing images. Critical data should never be stored in sparse disk images on file servers that don't support F_FULLFSYNC.

SPARSE (UDSP) images and shadow files were designed for intermediate use when creating other images (e.g. UDZO) when final image sizes are unknown. As of macOS 10.3.2, partially-updated SPARSE images are properly handled and are thus safe for persistent storage. SPARSE images are not recommended for persistent storage on versions of macOS earlier than 10.3.2 and should be avoided in favor of SPARSEBUNDLE images or UDRW images and resize.

If more space is needed than is referenced by the hosted filesystem, hadiutil resize or diskutil(8) resize can help to grow or shrink the filesystem in an image. compact reclaims unused space in sparse images. Though they request that hosted HFS+ filesystems use a special "front first" allocation policy, beware that sparse images can enhance the effects of any fragmentation in the hosted filesystem.

To prevent errors when a filesystem inside of a sparse image has more free space than the volume holding the sparse image, HFS volumes inside sparse images will report an amount of free space slightly less than the amount of free space on the volume on which image resides. The image filesystem currently only behaves this way as a result of a direct attach action and will not behave this way if, for example, the filesystem is unmounted and remounted.

/dev Entry Access

Since any /dev entry can be treated as a raw disk image, it is worth noting which devices can be accessed when and how. /dev/rdisk nodes are character-special devices, but are "raw" in the BSD sense and force block-aligned I/O. They are closer to the physical disk than the buffer cache. /dev/disk nodes, on the other hand, are buffered block-special devices and are used primarily by the kernel's filesystem code.

It is not possible to read from a /dev/disk node while a filesystem is mounted from it, but anyone with read access to the appropriate /dev/rdisk node can use hdiutil verbs such as fsid or pmap with it. The Disklmages framework will attempt to use authopen(1) to open any device which it can't open (due to EACCES) for reading with open(2). This might cause apparent hangs while trying to access /dev entries while logged in remotely (an authorization panel is waiting on console).

Generally, the /dev/disk node is preferred for imaging devices (e.g. convert or create -srcdevice operations), while /dev/rdisk is usable for the quick pmap or fsid. In particular, converting the blocks of a mounted journaled filesystem to a read-only image will prevent the volume in the image from mounting (the journal will be permanently dirty).

Compatibility

macOS 10.0 supported the disk images of Disk Copy 6 on Mac OS 9. macOS 10.1 added sparse, encrypted, and zlib-compressed images. These images will not be recognized on macOS 10.0 (or will attach read/write, possibly allowing for their destruction). As the sparse, shadow, and encrypted formats have evolved, switches have been added to facilitate the creation of images that are compatible with older OS versions (at the expense of the performance and reliability improvements offered by the format enhancements). In particular, sparse images should not be expected to attach on versions of macOS older than that which created them.

With macOS 10.2, the most common image formats went "in-kernel" (i.e. the Disklmages kernel extension served them without a helper process),

image meta-data began being sto became UDZO (breaking compat (especially when combined with m

In macOS 10.4.7, the resource for by resource fork structures. As a remacOS 10.0. flatten can be used to

macOS 10.5 introduced sparse b support for attaching SPARSEBU macOS 10.7 removed double-clic

History

Disk images were first invented to floppies are typically referred to as Copy 4.2 images were block-for-based disk, with no notion of compression

NDIF (New Disk Image Format) in than a floppy disk. With NDIF and Compression (ADC) -- which care used to compress images that we

UDIF (Universal Disk Image Form data therein: DDM, partition map, image

To ensure single-fork files (NDIF)

(SS64)

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Copy.app "compressed" format ormat which provides smaller images

metadata length limitations imposed nized by either macOS 10.1 or

s versions. macOS 10.6 removed

ng flatten and unflatten, or convert.

cturing replication. These images of stored them to floppy disks. Disk

on.

nats and to support images larger under Mac OS 9. Apple Data

ent entire block devices and all the can then be replicated from an

the native image format for macOS.

Raw disk images from other Operating Systems (e.g. .iso files) will be recognized as disk images and can be attached and mounted if macOS recognizes the filesystems. They can also be burned with hdiutil burn.

What's New

In macOS 10.12 Apple will provide an updated hdutil command able to work with the new file system.

macOS 10.7 added the ability to quickly render encrypted images inaccessible using the new erasekeys verb, which saves time versus securely overwriting the entire image.

In macOS 10.6, pmap was rewritten to use MediaKit's latest reporting routines so that it can properly support GPT partition maps. Also -debug now implies -verbose for all verbs.

macOS 10.5 changed the behavior of attach when run on an existing image or /dev node: if the image was attached but no volume was mounted, the volume would be mounted. Prior systems would return the /dev without mounting the volume. This change effectively removes the ability to create a second /dev node from an existing one.

Examples

Mount a Disk Image:

\$ hdiutil attach /path/to/diskimage.dmg

Unmount a Disk Image:

\$ hdiutil detach /dev/disk2s1

Create a Disk Image from a folders contents:

\$ hdiutil create -volname "Volume Name" -srcfolder /path/to/folder -ov diskimage.dmg

Create an encrypted Disk Image from a folders contents:

\$ hdiutil create -encryption -stdinpass -volname "Volume Name" -srcfolder /path/to/folder -ov encrypted.dmg

The required password can be piped into the hdiutil command:

echo -n SEcurePa\$\$w0rd | hdiutil...

Burn a Disk Image file (.iso, .img or .dmg) to a DVD:

\$ hdiutil burn /path/to/image_file

"The beginning of wisdom is to call things by their right names" ~ Chinese Proverb

Related macOS commands

asr - Apple Software Restore.
dd - Convert and copy a file, clone disksdiskutil - Disk utilities - Format, Verify, Rditto - Copy files and folders.
authopen(1), hdid(8), ioreg(8), drutil(1),

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DisklmageMounter.app.

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