FreeBSD Special Cases

Something not-so-common…

Offline Installation

***Note**: Need to test this...* 😛

- Get the desired packages on a FreeBSD machine with internet connection

```
# mkdir /root/offline
# pkg fetch -d -o /root/offline xorg mate slim firefox
```

  - `-d` for dependencies
  - `-o` specifies destination path for the fetched packages
- Copy those files to a portable USB drive
- On the target machine, copy everything to /var/cache/pkg
- Then, do a

```
# pkg -U install xorg mate slim firefox git geany networkmgr
```

  - `-U` is the short form for `–no-repo-update`

USB Thumb-Drive Installation

I want to try to install to a USB thumb-drive… from my FreeBSD virtual machine (VirtualBox). I have a 16GB USB3 Kingston Data Traveller drive, and already installed FreeBSD 12 on a virtual machine.

To prepare the drive layout, checkout here. I'm going to prepare for UEFI boot on a GPT formatted disk.

- plug in usb drive

- find device name (i.e. /dev/???)
- usually da0 is the first usb drive?

- refer to this…

to be continued…

Dual-Boot on UEFI Systems

Find `boot1.efi` as place it in EFI System Partition. It will look for first partition with type freebsd-ufs (which can even be on another disk) and load `loader.efi`.

Install on SSD

Note: *Generally, it seems that this is no longer an issue - some just did a normal install and have no problems at all. But, I want to put this here anyways.*

Creating partitions (from: https://www.wonkity.com/~wblock/docs/html/ssd.html)

```
# gpart create -s gpt ada0
# gpart add -t freebsd-boot -s 1m -a 4k -l ssdboot ada0
# gpart bootcode -b /boot/pmbr -p /boot/gptboot -i1 ada0

# gpart add -t freebsd-ufs -l ssdroot -b 1m -s 4g ada0
# gpart add -t freebsd-ufs -l ssdvarfs -a 1m -s 2g ada0
# gpart add -t freebsd-ufs -l ssdusrfs -a 1m ada0

# newfs -U -t /dev/gpt/ssdrootfs
# newfs -U -t /dev/gpt/ssdvarfs
# newfs -U -t /dev/gpt/ssdusrfs
```

create fstab (save as /tmp/bsdinstall_etc/ fstab)

```
# Device    Mountpoint    FStype    Options    Dump    Pass#
/dev/gpt/ssdroot    /    ufs    rw    1    1
/dev/gpt/ssdvarfs   /var    ufs    rw    2    2
/dev/gpt/ssdusrfs   /usr    ufs    rw    2    2
tmpfs   /tmp    tmpfs    rw,mode=01777    0    0
```

FreeBSD on RasPi400

- got FreeBSD13 arm64 aarch64 image
- write to microsd card
- boot issue
  - ok if boot from usb (note: starting pi4, usb boot is possible!)
  - need to update u-boot binary (look for that in forum)
- console display is not ok when using on tv (high res?)
  - edit config.txt and comment out hdmi_safe=1

going for dwm

- pkg install libX11 libXft libXinerama
- pkg install git

work in progress...