

# Hyperbola Linux install

## linux

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Jul 27

The current version of Hyperbola Linux is `hyperbola-milky-way-v0.4.2-dual.iso`.

This is not the BSD kernel version referred to in the topic

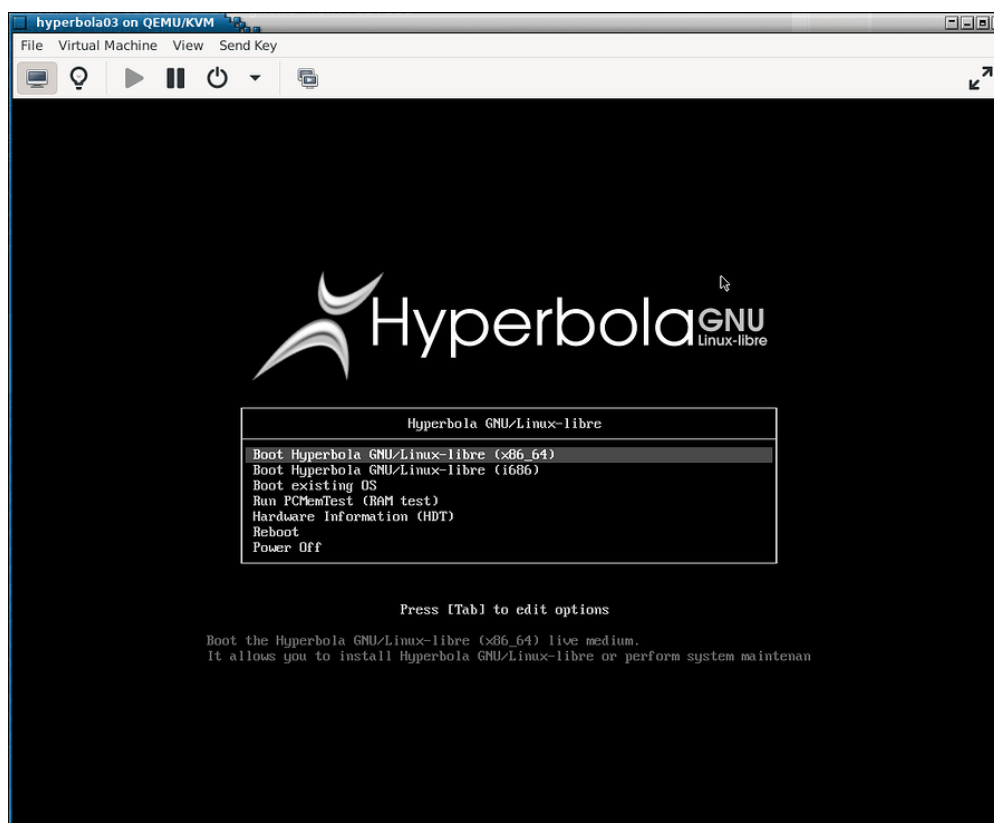
### Hyperbolabsd project

This is not recent news, but the hyperbola linux distro is planning to become an OS with a BSD kernel and a mix of Debian and Arch software repos. There is an ItsFOSS article on the topic It is significant because , if they achieve their goal, it would be an incursion of GNU licensing into the BSD world. I like the project for a number of reasons it embraces software freedom... I like to have choices for components of a system it is a different direction... definately not just another debian...

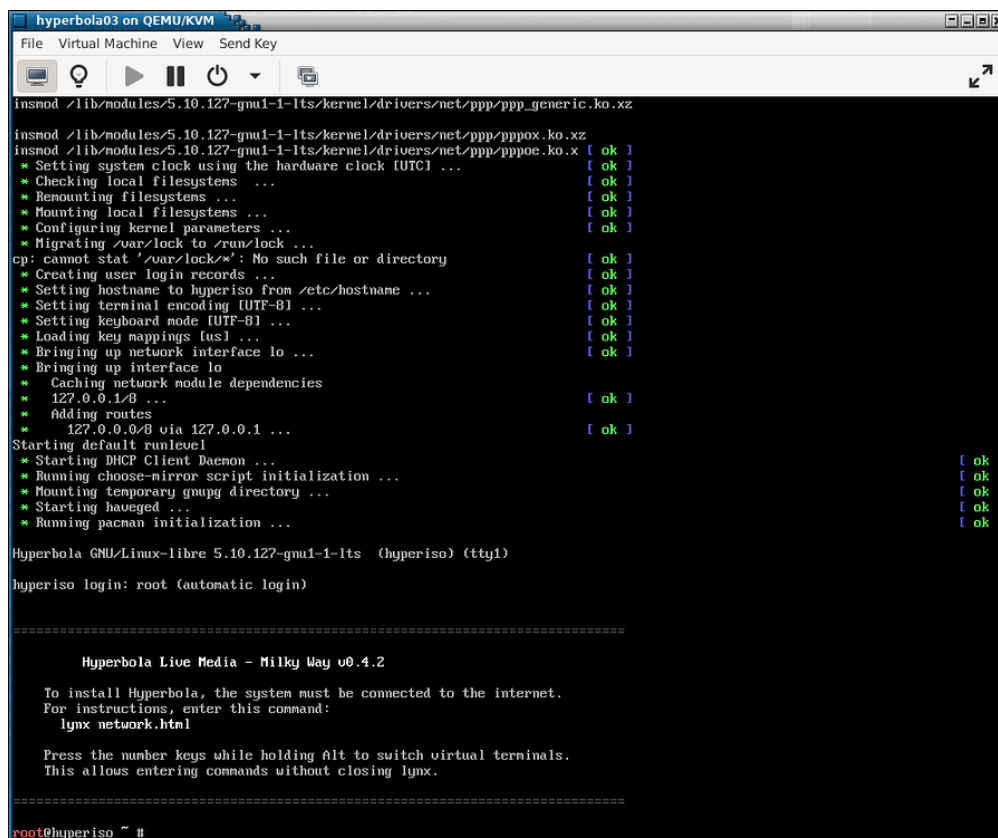
This version has a Linux-libre kernel.

I started my install with a torrent download of `hyperbola-milky-way-v0.4.2-dual.iso`, started a new virtual machine in virt-manager, set it up with 8G of memory, 4 CPU,s, and 50G of file space.

When I load the .iso file, I get a screen as follows



Choose the top line boot option and the installer starts and runs down to a root login, as follows



```

hyperbola03 on QEMU/KVM
File Virtual Machine View Send Key

insmod /lib/modules/5.10.127-gnu1-1-lts/kernel/drivers/net/ppp/ppp_generic.ko.xz
insmod /lib/modules/5.10.127-gnu1-1-lts/kernel/drivers/net/ppp/pppox.ko.xz
insmod /lib/modules/5.10.127-gnu1-1-lts/kernel/drivers/net/ppp/pppoe.ko.xz [ ok ]
* Setting system clock using the hardware clock (UTC) ... [ ok ]
* Checking local filesystems ... [ ok ]
* Remounting filesystems ... [ ok ]
* Mounting local filesystems ... [ ok ]
* Configuring kernel parameters ... [ ok ]
* Migrating /var/lock to run/lock ... [ ok ]
cp: cannot stat '/var/lock/*': No such file or directory [ ok ]
* Creating user login records ... [ ok ]
* Setting hostname to hyperiso from /etc/hostname ... [ ok ]
* Setting terminal encoding (UTF-8) ... [ ok ]
* Setting keyboard mode (UTF-8) ... [ ok ]
* Loading key mappings (us) ... [ ok ]
* Bringing up network interface lo ... [ ok ]
* Bringing up interface lo
  * Caching network module dependencies [ ok ]
  * 127.0.0.1/8 ... [ ok ]
  * Adding routes
    * 127.0.0.0/8 via 127.0.0.1 ... [ ok ]
Starting default runlevel
* Starting DHCP Client Daemon ... [ ok ]
* Running choose-mirror script initialization ... [ ok ]
* Mounting temporary gnupg directory ... [ ok ]
* Starting haveged ... [ ok ]
* Running pacman initialization ... [ ok ]

Hyperbola GNU/Linux-libre 5.10.127-gnu1-1-lts (hyperiso) (tty1)
hyperiso login: root (automatic login)

=====

Hyperbola Live Media - Milky Way v0.4.2

To install Hyperbola, the system must be connected to the internet.
For instructions, enter this command:
lynx network.html

Press the number keys while holding Alt to switch virtual terminals.
This allows entering commands without closing lynx.

=====

root@hyperiso ~ #

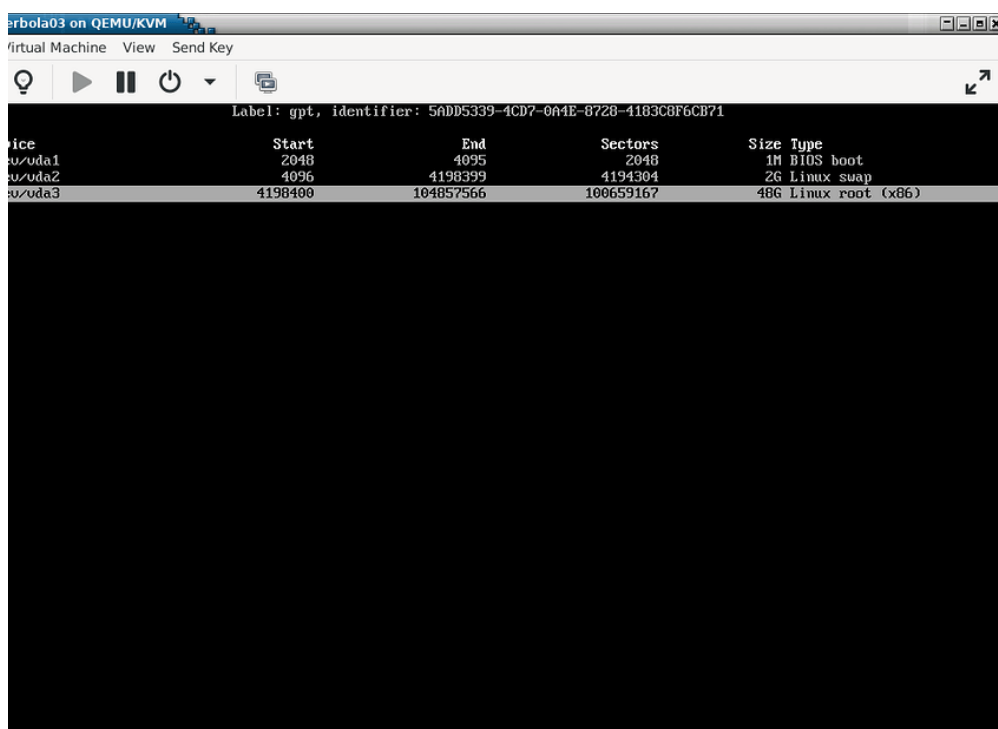
```

Then the fun begins. You complete the install by typing in linux commands... like in Gentoo but not as difficult ( not sure what Arch does, never tried it)

First command does disk partitioning

`cfdisk /dev/vda`

You get a screen to make partitions... I chose GPT partition table and made 3 partitions , as follows



```

hyperbola03 on QEMU/KVM
Virtual Machine View Send Key

Label: gpt, identifier: 5aDD5339-4CD7-0A4E-8728-4183C8F6CB71

Device      Start          End      Sectors    Size Type
vda1        2048           4095      2048       1M BIOS boot
vda2        4096          4198399   4194304    2G Linux swap
vda3       4198400      104857566 100659167  48G Linux root (x86)

```

```

tion UUID: 0103B3E3-8D19-9141-8303-0C9EE687701A
tion type: Linux root (x86) (44479540-F297-41B2-9AF7-D131D5F0458A)

[ Delete ] [ Resize ] [ Quit ] [ Type ] [ Help ] [ Write ] [ Dump ]

Quit program without writing changes

disks.
periso ~ #

```

Quit that , and then comes a number of typed commands

```

mkfs.ext4 /dev/vda3
mkswap /dev/vda2
swapon /dev/vda2
mount /dev/vda3 /mnt
pacstrap /mnt base
genfstab -V -p /mnt >> /mnt/etc/fstab
arch-chroot /mnt
nano /etc/locale.gen
    enable EN US.UTF-8 UTF-8
locale-gen
echo LANG=en_US.UTF-8 > /etc/locale.conf
export LANG=en_US.UTF-8
nano /etc/conf.d/keymaps
    check keymap="us"
rc-update add keymaps default
ln -s /usr/share/zoneinfo/Australia/Sydney /etc/localtime
hwclock --systohc --utc
echo localhost > /etc/hostname
passwd
    set the root passwd
pacman -S grub
grub-install --target=i386-pc --recheck /dev/vda
grub-mkconfig -o /boot/grub/grub.cfg
exit
umount -R /mnt
reboot

```

It boots and you get a login prompt as follows

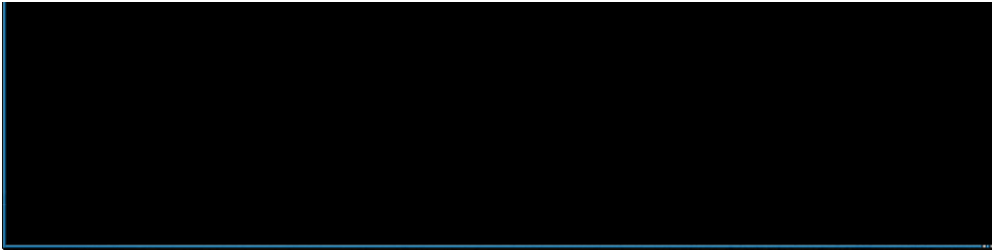
```

hyperbola03 on QEMU/KVM
File Virtual Machine View Send Key

Hyperbola GNU/Linux-libre 5.10.127-gnu1-1-lts (localhost) (tty1)

localhost login: root
Password:
[root@localhost ~]# pwd
/root
[root@localhost ~]# useradd -m nevj
[root@localhost ~]# passwd nevj
Changing password for nevj
Enter the new password (minimum of 5 characters)
Please use a combination of upper and lower case letters and numbers.
New password:
Re-enter new password:
passwd: password changed.
[root@localhost ~]# su nevj
[nevj@localhost root]$ cd
[nevj@localhost ~]$ pwd
/home/nevj
[nevj@localhost ~]$ ls -la
. . . .bash_logout .bash_profile .bashrc .mkshrc
[nevj@localhost ~]$ id nevj
uid=1000(nevj) gid=1000(nevj) groups=1000(nevj)
[nevj@localhost ~]$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
dev              10240         0      10240   0% /dev
run             2012768      468    2012300   1% /run
/dev/vda3       49224320 1064084   45627376   3% /
cgroupr_root    10240         0      10240   0% /sys/fs/cgroup
shm             2012768         0    2012768   0% /dev/shm
[nevj@localhost ~]$ _

```



You can see I logged in as root, setup a user account, and had a look around.

No DE you say. Well be patient, I have not got to that yet. I think I have to learn pacman first.

So what do you get?

An Arch-like distro with OpenRC init system and all free software.

Quite small... root filesystem used about 1Gb.

Links

[https://wiki.hyperbola.info/doku.php?id=en:manual:beginner\\_installation](https://wiki.hyperbola.info/doku.php?id=en:manual:beginner_installation)

<https://www.hyperbola.info/>

More to come when I learn to use pacman.

Oh, and I did the whole thing while my other VM running tinyW11 was busy doing a shutdown with updates !

An interesting variation. It will not allow a VM shutdown, only a save.

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Linux

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