

Where is vmlinux on my Ubuntu installation?

The easiest(and non-hacky) way to obtain `vmlinux` under Ubuntu is to add ddebs repository:

```
echo "deb http://ddebs.ubuntu.com $(lsb_release -cs)-updates main restricted universe multiverse
deb http://ddebs.ubuntu.com $(lsb_release -cs)-security main restricted universe multiverse
deb http://ddebs.ubuntu.com $(lsb_release -cs)-proposed main restricted universe multiverse" | \
sudo tee -a /etc/apt/sources.list.d/ddebs.list

sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 428D7C01
```

and install kernel debug symbols:

```
sudo apt-get update
sudo apt-get install linux-image-$(uname -r)-dbg
```

`vmlinux` then can be found here:

```
/usr/lib/debug/boot/vmlinux-$(uname -r)
```

Hm, just wanted to put this as a comment to the above answer by @paxdiablo, but cannot find the comment button? Anyways..

The thing is that the `vmlinuz` file is compressed - and for debugging purposes, you need an uncompressed `vmlinux` one (and preferably one built with debugging symbols - which the default `vmlinuz`-es coming with Ubuntu do not have, as they are stripped of symbols).

Now, it is possible to unpack a `vmlinuz` into a `vmlinux` file - however, that is not trivial; first you have to find a byte offset in `vmlinuz` where the compressed file starts, and then use `dd` and `zcat` to unpack only the necessary part. In detail, this is explained in: "[ubuntu] How to trace this bug? - Ubuntu Forums - post #4"; in brief, below is my example terminal command log, based on that post:

```
$ od -A d -t x1 /boot/vmlinuz-$(uname -r) | grep '1f 8b 08 00' --colour
0013920 f3 a5 fc 5e 8d 83 70 23 3d 00 ff e0 *1f 8b 08 00*

$ wcalc 13920+12
= 13932

$ dd if=/boot/vmlinuz-$(uname -r) bs=1 skip=13932 | zcat > vmlinux-$(uname -r)
4022132+0 records in
4022132+0 records out
4022132 bytes (4,0 MB) copied, 42,1695 s, 95,4 kB/s

gzip: stdin: decompression OK, trailing garbage ignored
```

```
$ file vmlinux-2.6.32-25-generic
vmlinux-2.6.32-25-generic: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically lin
```

Well, hope this helps,

Cheers!

you can [download source](#) and compile your own using the following command:

```
apt-get source linux-image-$(uname -r)
apt-get build-dep --no-install-recommends linux-image-$(uname -r)
cd linux-2.6.32/
fakeroot make -f debian/rules binary-generic skipdbg=false
```

or you can download the ddeb package here and install it by `sudo dpkg -i linux-image-3.2.0-60-virtual-dbgsym_3.2.0-60.91_amd64.ddeb`

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