

# driver building

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23 July 2024

after making changes to a driver; it is convenient to compile the driver only instead of instead of a complete kernel build

after building the module, it can be **reloaded**.

# targeted compilation

to compile a single source file

```
1 make /path/to/object/file.o
```

to compile a directory

```
1 make path/to/directory
```

## compile as a module

example of compiling vimrc module

```
1 make M=drivers/media/test-drivers/vimc
```

you need to figure out dependencies for a module/driver/configuration option, until all dependencies are enabled, The driver you are looking ot enable will not be enabled.

Lets figure out dependencies of `vimc`: vimc can be enabled by changing the `CONFIG_VIDEO_VIMC` option. Also it is a tristate driver, which means it has options y,n,m for kconfig

It depends on `CONFIG_VIDEO_DEV`, `CONFIG_VIDEO_V4L2`, and `CONFIG_VIDEO_V4L2_SUBDEV_API` to be enabled. It will also autoselect `CONFIG_VIDEOBUF2_VMALLOC` and `CONFIG_VIDEO_V4L2_TPG`.

some options are boolean; which means they can either be enabled or disabled.

use `make menuconfig`. to tweak config