Intel GPU Hardware Acceleration

Intel HW Acceleration Notes:

```
apt-get install i965-va-driver
#add non-free non-free-firmware to debian apt config
apt-get install i965-va-driver-shaders
apt-get install intel-media-va-driver-non-free
```

check at least one renderD device is available:

```
ls -l /dev/dri
```

check supported QSV/VA-API codecs:

```
   iHD driver indicates support for the QSV and VA-API interfaces.
   i965 driver indicates only support for the VA-API interface, which should
only be used on pre-Broadwell platforms.
```

```
sudo apt install vainfo
sudo vainfo --display drm --device /dev/dri/renderD128
```

Check the OpenCL runtime status:

```
ffmpeg -v verbose -init_hw_device vaapi=va:/dev/dri/renderD128 -
init_hw_device opencl@va
sudo apt install -y intel-opencl-icd
```

This enables QSV or VA-API

If you wish to use the second GPU on your system, change renderD128 to renderD129.

```
apt-get install intel-microcode
echo "options i915 enable_guc=2" >> /etc/modprobe.d/i915.conf
```

```
sudo apt-get install intel-gpu-tools
```

show all supported hardware devices by ffmpeg version

```
ffmpeg -v verbose -init_hw_device list
```

```
apt-get install va-driver-all libva-drm2 mesa-va-drivers
usermod -a -G render root
usermod -a -G video root
```

From:
<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:
http://wuff.dyndns.org/doku.php?id=howto:intel-hw-accel&rev=1712665130

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