



humans  
Visitor

01-27-2020 10:14 PM

798 Views

Registered: 10-26-2018

## Vitis AI : cannot open display:

Hi guys :)

I just followed vitis ai user guide example and when I tried video example, i got in trouble.

I'm using ZCU-102 evaluation board.

When I tried video analysis example which is explained on page 29 (Vitis AI user guide), the following error message is displayed.

"(Video Analysis @Xilinx DPU:2774): Gtk-WARNING \*\*: 22:01:12.182: cannot open display:  
Video end."

I connected ZCU-102 board to monitor with HDMI-HDMI, HDMI-DVI, DP-DVI. But i could not fix the problem.

Please let me know how to fix it.

Thank you.

```
ssslab@ssslab-desktop: ~  
Starting watchdog daemon...done  
Starting tcf-agent: OK  
  
mount: /mnt: /dev/mmcblk0p1 already mounted on /run/media/mmcblk0p1.  
attempting to run /mnt/init.sh  
/mnt  
/etc/resolvconf/update.d/libc: Warning: /etc/resolv.conf is not a symbolic link to /etc/resolv  
root@xilinx-zcu102-2019_2:~# cd adas_detection/  
root@xilinx-zcu102-2019_2:~/adas_detection# ./adas_detection video/adas.avi dpuv2_rundir  
  
(ADAS Detection@Xilinx DPU:2725): Gtk-WARNING **: 22:00:42.840: cannot open display:  
root@xilinx-zcu102-2019_2:~/adas_detection# ./adas_detection video/adas.avi dpuv2_rundir  
  
(ADAS Detection@Xilinx DPU:2750): Gtk-WARNING **: 22:00:52.955: cannot open display:  
root@xilinx-zcu102-2019_2:~/adas_detection# cd ..  
root@xilinx-zcu102-2019_2:~# video_analysis/  
sh: video_analysis/: is a directory  
root@xilinx-zcu102-2019_2:~# cd video_analysis/  
root@xilinx-zcu102-2019_2:~/video_analysis# ./video_analysis video/structure.mp4 dpuv2_rundir  
Detect video: video/structure.mp4  
  
(Video Analysis @Xilinx DPU:2774): Gtk-WARNING **: 22:01:12.182: cannot open display:  
Video end.  
root@xilinx-zcu102-2019_2:~/video_analysis#
```



0 Kudos



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## 7 Replies



jheaton  
Xilinx Employee

01-28-2020 08:12 AM

761 Views

Registered: 03-21-2008

The Vitis AI Linux Image for the ZCU102 only supports Display Port.

If you are running the program from a terminal, try setting the following envvar:

export DISPLAY=:0.0



0 Kudos



Reply



humans  
Visitor

01-29-2020 10:11 PM

713 Views

Registered: 10-26-2018



Thank you for reply

I connected Monitor and ZCU-102 board with HDMI(Monitor) - DP (Board) cable.

and set following command.

"export DISPLAY=:0.0"

Now there is no error about "cannot open display:" but another error occurred.

I attached error message. Please let me know how to fix it.

Thank you

```
Load address: 0x00000000  
Entry Point: 0x00000000  
Hash algo: sha1  
Hash value: b075fd1332c374cc62288a9385e25ae9574e142
```

```
Verifying Hash Integrity ... sha1: OK
## Loading fdt from FIT Image at 10000000 ...
Using 'conf@system-top.dtb' configuration
Trying 'fdt@system-top.dtb' fdt subimage
Description: Flattened Device Tree blob
Type: Flat Device Tree
Compression: uncompressed
Data Start: 0x114b3bfc
Data Size: 43143 Bytes = 43.3 KiB
Architecture: AArch64
Hash algo: sha1
Hash value: e5175f8236ed9972d443df3786c20b84bc5a68a0
Verifying Hash Integrity ... sha1: OK
Booting using the fdt blob at 0x114b3bfc
Loading Kernel Image ... OK
Loading Device Tree to 0000000007ff2000, end 0000000007ffffd36 ... OK

Starting kernel ...

INIT: version 2.88 booting
Starting udev
INIT: Entering runlevel: 5
Configuring network interfaces... done.
Starting system message bus: dbus.
Starting haveged: haveged: listening socket at 3
haveged: haveged starting up
[ OK ]
Starting OpenBSD Secure Shell server: sshd
done.
attempting to run /mnt/init.sh
/mnt
/etc/resolvconf/update.d/libc: Warning: /etc/resolv.conf is not a symbolic link to /etc/resolvconf/run/resolv.conf
Starting rpcbind daemon...done.
Starting statd: done
Starting bluetooth: bluetoothd.
Starting Distributed Compiler Daemon: distcc/etc/rcS.d/S20distcc: start failed with error code 110
Starting internet superserver: inetd.
exportfs: can't open /etc/exports for reading
NFS daemon support not enabled in kernel
Starting ntpd: done
Starting syslogd/klogd: done
Starting internet superserver: xinetd.
* Starting Avahi mDNS/DNS-SD Daemon: avahi-daemon
Starting Telephony daemon
Starting watchdog daemon...done
Starting tcf-agent: OK

Mount: /mnt: /dev/mmcblk0p1 already mounted on /run/media/mmcblk0p1.
attempting to run /mnt/init.sh
/mnt
/etc/resolvconf/update.d/libc: Warning: /etc/resolv.conf is not a symbolic link to /etc/resolvconf/run/resolv.conf
root@xilinx-zcu102-2019_2:~# cd adas_detection/
root@xilinx-zcu102-2019_2:~/adas_detection# export DISPLAY=:0.0
root@xilinx-zcu102-2019_2:~/adas_detection# ./adas_detection_video/adas.avi dpuv2_rundir
** (ADAS Detection@Xilinx DPU:2704): CRITICAL **: 22:07:10.669: Failed to get connection to xfconfd: Could not connect: Connection refused

CTRL-A 2 for help | 115200 8Ni | NOR | Minicon 2.7 | VT102 | Offline | ttyUSB0
```

0 Kudos

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wataru  
Teacher

01-29-2020 10:20 PM

706 Views

Registered: 06-16-2013



Hi @humans

You must use active adapter, if you use DP to HDMI adapter.

Make sure your adapter type.

Please refer the following post.

<https://forums.xilinx.com/t5/Video/Display-Port-to-HDMI-adapters/m-p/1068320#M30366>

Best regards,

0 Kudos

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humans  
Visitor

02-03-2020 11:00 PM

660 Views

Registered: 10-26-2018

Thank you for your help :)

But, I still have same problem.

I bought HDMI to DP adaptor, but the problem was not fixed.

Do I have to use DP to DP line?? or is it working if I use HDMI to HDMI line with HDMI to DP adaptor??

I really want to fix this problem for project.. but I'm staying in this section for a month..

Please help me to fix it

Thank you

0 Kudos

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wataru  
Teacher

02-03-2020 11:06 PM

658 Views

Registered: 06-16-2013

Hi @humans

What kind of monitor do you use ?

Also, would you share the following result ?

\$ modetest

Best regards,

 0 Kudos

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 **humans**  
Visitor

02-03-2020 11:50 PM - edited 02-04-2020 12:05 AM

645 Views

Registered: 10-26-2018

[@watari](#)

Thank you for your reply..

I checked my adaptor and I realized that it is passive adaptor. So, I would buy active adaptor and test it again.

But I have one more question.

I would like to know which connection order is correct.

1. ZCU102 (DP out) - DP (M) to HDMI (F) Converter - HDMI Line - (HDMI in)Monitor
2. ZCU102 (DP out) - DP Line - DP (F) to HDMI (M) Converter - (HDMI in)Monitor

\* F / M stands for Female / Male

Thank you

 0 Kudos

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 **watari**  
Teacher

02-04-2020 01:09 PM

615 Views

Registered: 06-16-2013

Hi [@humans](#)

>I would like to know which connection order is correct.

Both OK (don't related with figure of connector), if they are an active adapter.

Best regards,

 0 Kudos

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