### Effects of a Gstreamer version upgrade on a Yocto application

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- Product Design Company
- Our clients are companies with innovative product ideas but need technical expertise
- One of the products is a live-realtime streaming service discussed today

## Application

- Multimedia application, generally one video stream and two audio streams.
- ~ 60 elements, in three distinct pipelines.
- Operating system update, simultaneous technology update

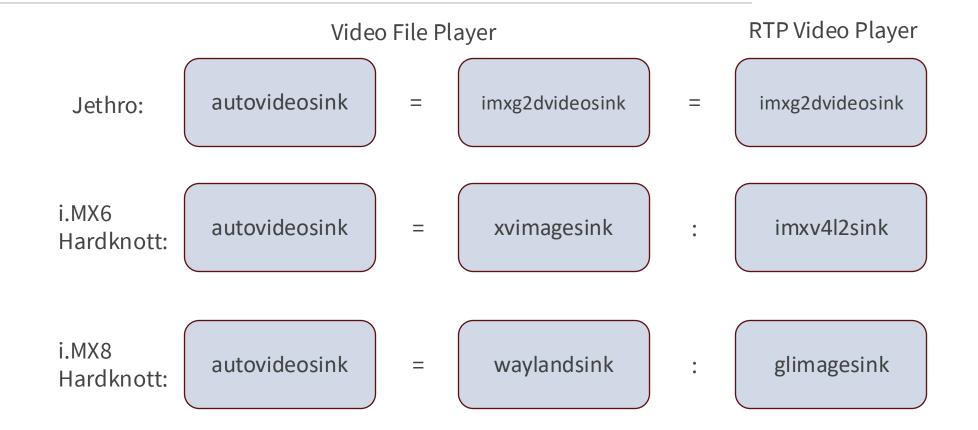
#### Original

- Yocto "Jethro" (Community)
- 3.14.28 Kernel
- **1.4.5** Gstreamer

#### **Update**

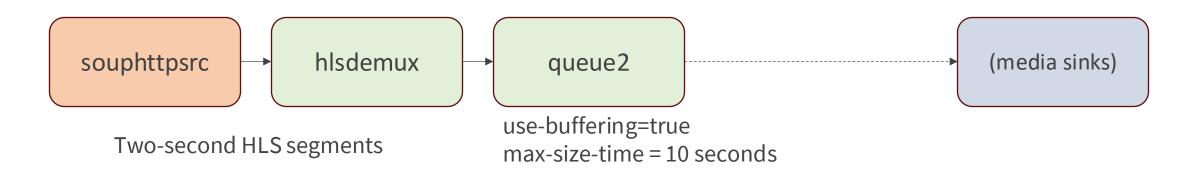
- Yocto "Hardknott" (i.MX6 TechNexion, i.MX8 NXP)
- 5.10.72 Kernel
- 1.18.5 Gstreamer

### 1) Video Sinks



- X11 desktop to wayland desktop
- Window positioning and sizing challenges

## 2) Default Properties



- Would sometimes stall when we changed camera source!
- GST\_LOG: grepped out the arriving buffer sizes, was able to figure out what was happening.

```
New default settings:
use-bitrate-query = true (true = downstream est. duration)
use-tags-bitrate = false (true = upstream tags est. duration)
```

# Questions?



### **Thank You**



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