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Case Study

HDR Video Reference Software Design

Project/Client Details

- Video software reference design of proprietary HDR on Nvidia Jetson TX1
- Tier 1 Company which designs and manufactures audio and imaging products for the cinema, television, broadcast and entertainment industries

Design Scope

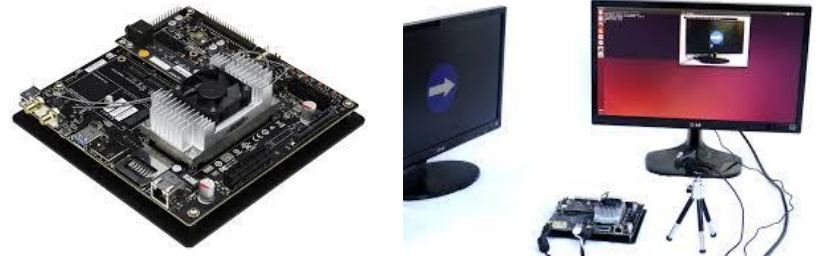
- Implementation of gstreamer decoder pipeline with HEVC decoder on Nvidia Jetson TX1
- Integration of HDR as post processing block
- Supporting resolutions upto 4K

Expertise/Tools

- Nvidia Jetson TX1 platform
- Gstreamer
- Open GL

Highlights

- Audio video player implementation using GStreamer pipeline
- Realization of the solution using Nvidia libraries on Jetson TX1 platform.
- RGB to YUV conversion in GPU using OpenGL ES shader programming.
- Supported features such as AV sync, 8-bit YUV 444, 422, 420, H.265 decoding, mp4 demux, ES splitting, audio decoding
- The above mentioned features were supported for various frame rates and resolution.





THANK YOU



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