Case Study

ATSC Firmware – Controller Module

Project/Client Details

- ARM & DSP based heterogenous system
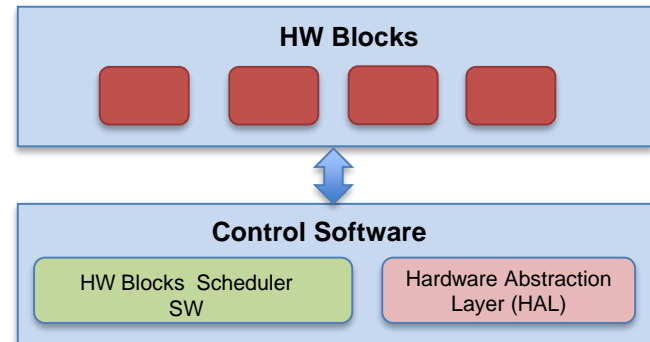- Industry Leader in Software Defined Radio

Design Scope

- Develop abstract layer components to map the controller actions in both HW/SW
- Develop HAL component to initialize, schedule, process the blocks
- Develop bare metal control software to initialize the data/inputs to HW/SW modules.
- Develop software glue logic to parse the data and schedule the same.

Expertise/Tools

- Deep knowledge in ARM and DSP
- Good Understanding of Wireless protocol
- Validation of C models by comparing with Matlab models.

Highlights

- Bare metal software with following components
  - Configuration and initialization of the HW blocks
  - Software for scheduling data/process in to different modules
  - Error/event handling for the controller blocks
- HAL software with following components
  - Software to map the control software actions to HW/SW

THANK YOU

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