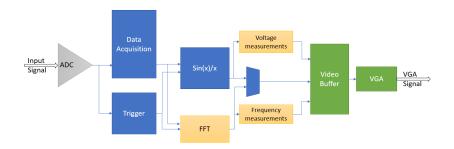
ECSE-487 Digital Storage Oscilloscope Mid-term presentation

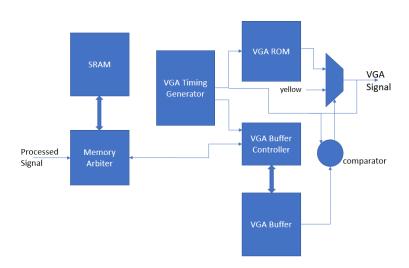
Andrei Purcarus Ze Yu Yang

March 13, 2017

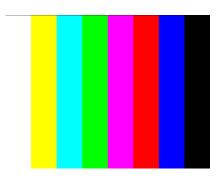
Digital Storage Oscilloscope - Overview



VGA Module - Overview

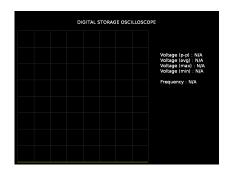


VGA Timing Test Results



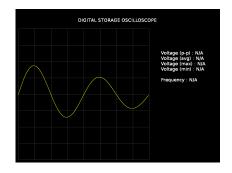
- A testbench was used to generate color bars based on ROW and COLUMN.
- ► The VGA output was displayed using a simulator.

VGA Background Image Test Results



- The background image file was loaded into the ROM.
- ► The VGA output was displayed using a simulator.

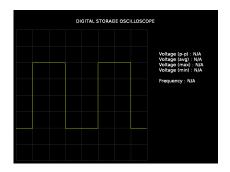
VGA Test Signal Results



- The test signal was loaded into the SRAM.
- ► The VGA output was displayed using a simulator.

$$f(t) = \sin(2\pi t/T)e^{-t/2T}$$

VGA Test Signal Results



- The test signal was loaded into the SRAM.
- ► The VGA output was displayed using a simulator.

$$f(t) = square(2\pi t/T)$$