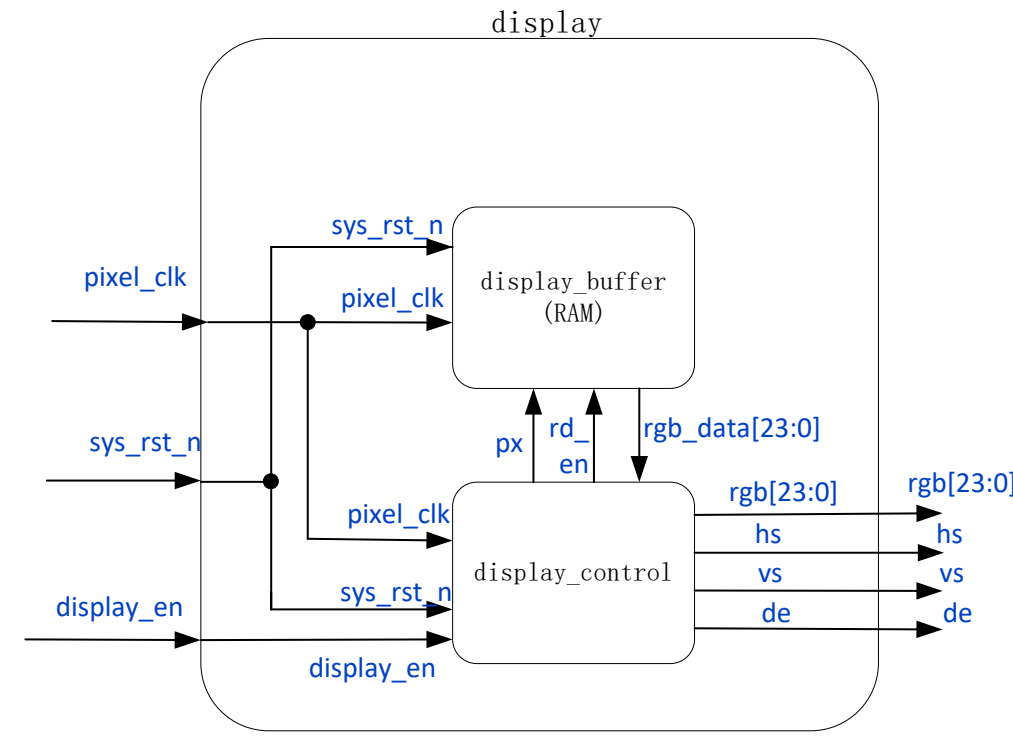


design waveform



note: lcd_rst 低有效

800*480 @ 60:
pixel_clk = 33.3Mhz

```
parameter:
HSYNC_T = 128
HBPH_T = 88
HLBD_T = 0
HDATA_T = 800
HRBD_T = 0
HFPH_T = 40
```

```

VSYNC_T = 2
VBPH_T = 33
VTBD_T = 0
VDATA_T = 480
VBBD_T = 0
VFPH_T = 10

```

```

localparam:
HSYNC_END_CNT= HSYNC_T - 1
HDATA_START_CNT = HSYNC_T + HBPH_T + HLB_D_T - 1
HDATA_END_CNT = HSYNC_T + HBPH_T + HLB_D_T + HDATA_T -1
H_CNT_MAX= HSYNC_T + HBPH_T + HLB_D_T + HDATA_T +
HRBD_T + HFPH_T -1

```

```

VSYNC_END_CNT= VSYNC_T -1
VDATA_START_CNT = VSYNC_T + VBPH_T + VTBD_T -1
VDATA_END_CNT = VSYNC_T + VBPH_T + VTBD_T + VDATA_T -1
V_CNT_MAX= VSYNC_T + VBPH_T + VTBD_T + VDATA_T +VBBD_T
+VFPH_T -1

```

display_control

