

Memory Map

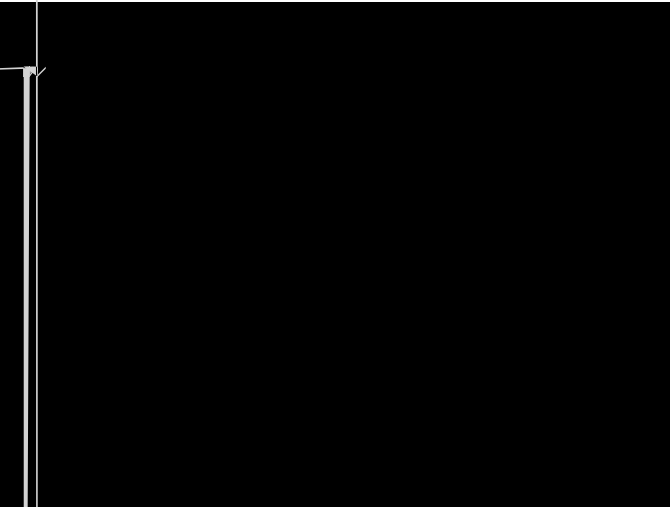
Two complementary views:

Map from Address to Device
location

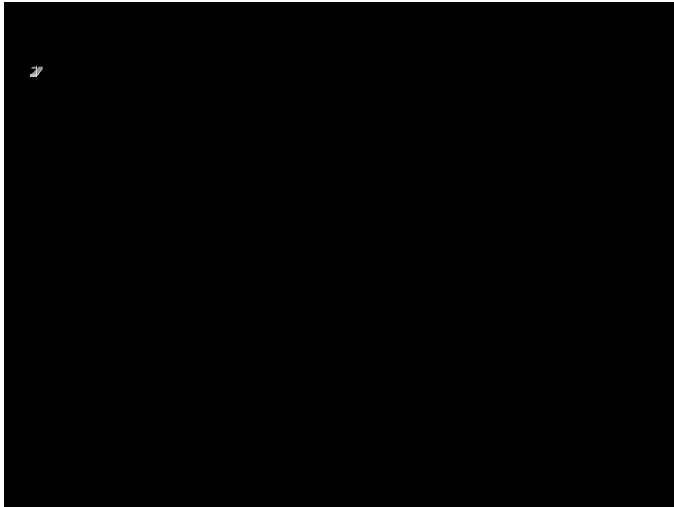
Map from Device to Address
Range

Address -> Device x Location

$A\text{Map}(\$2A04C) = (\text{RAM}_1, \$204C)$



RAM₁



$$D W^{\text{sb}}(q) = (B^{\text{zg}}(q))^{\text{t}} B^{\text{zg}}(q) + Z^{\text{zg}}(q)$$

Need to use Address to select a device
and location within it.

Solution:

Behaviour:

At most one CS line is asserted.

If VALID ADDRESS maps to corresponding device.

Valid Address:

Contents of Address inputs, when strobe is active.

Address Decoding Logic (How)

How does address decoding do it?

Determining selected Device

-> Look for higher

RAM₂ occupies \$20000...\$2FFFF