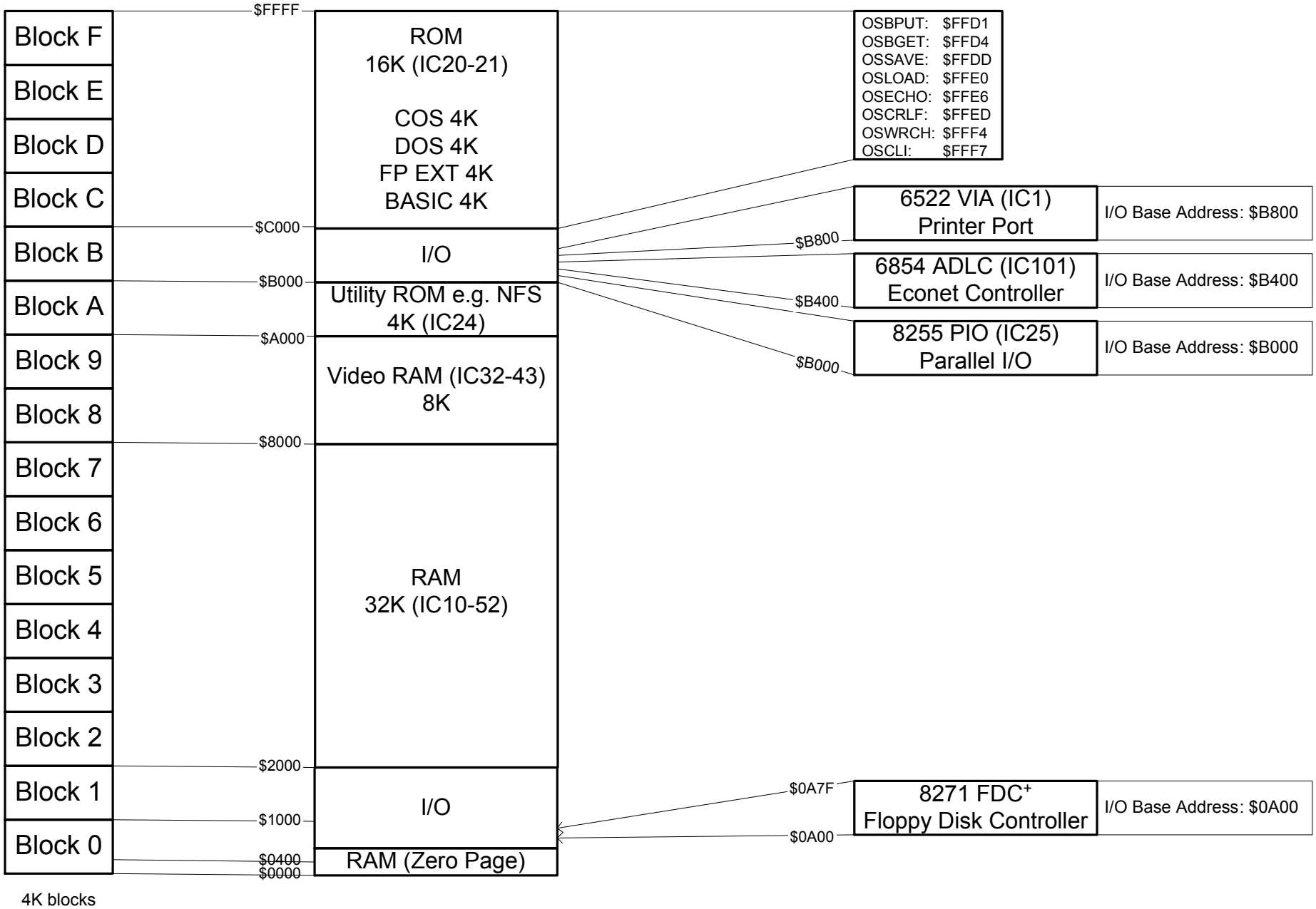Replica Atom Memory Map