Chip Name: Screen Memory Map of he physical screen Inputs: in [16], what to write load, where to write write Outputs: out[16] / screen value @ the given along Function: Functions exactly like a 16-bit 8K RAM:

1. out(+) = Screen[address(+)](+) 2. If lead (+-1) then Screen[address(+-1)](+)=in(+-1) (+ in the current time unit, or cycle) Comment: Has the side-effect of continuously refreshing a 256 by 512 black-and-white screen (simulators must simulate the device). Each row in the physical screen is represented by 32 consecutive 16-bit words, starting at the top left corner of the screen. Thus me pixel at

row r from the top and column a from the left (0<= r<= 255, 0<= c<= 511)

reflects the c% 16 bit (counting from LSB to MSB) of the word found at

Screen[r=32+c/16].