(if you get confused) instruction Dest SRCI SRC2 5 bits 7 bits 7 bits 8 bits (for scalar) · instruction: read from reg/mem 1 - add 000 2 - subtract ØØ1 3 - scale 010 4 -multiply \$11 5 - Transpose 100 c - unused 101 maybe read? 2 Writetomen 110 8 - stop [1] 3 bits + 2 bits total opcode = 27 bits

1	1-0	instruction memory size (opcode = 27 bits)
	27-bit blocks	1 - Add 2 - Store (needed iff "store" implies store in MEMORY) 3 - Transpose 4 - Store 5 - Sub 6 - Store 7 - Scale (store in reg) 8 - multiply 9 - Store
		27 x 9 = 243 bits in instruction memory
		19, 27-bit blocks) 4 bits for addressing
		Data Memory Size.
		· (1 matracies → 1536 bits → 192 bytes →
		stored as 16, > 96 words (16-bit words)
		ROCO POCI, ROC2 addressing addressing
		· need (x (16 x 16) bit blocks in memory
		1 total of 96 16 bit registers