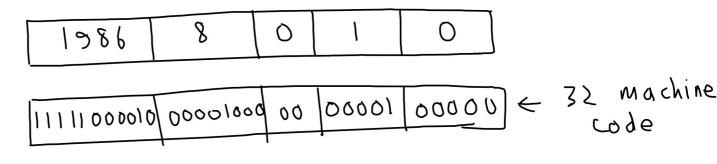


			-	
opcode	address	op2	Rn	Rt
11 bits	9 bits	2 bits	5 bits	5 bits

Load/store instructions

- Rn: base register
- address: constant offset from contents of base register (+/- 32 double words)
- Rt: destination (load) or source (store) register number
- Example of D-type instructions are:



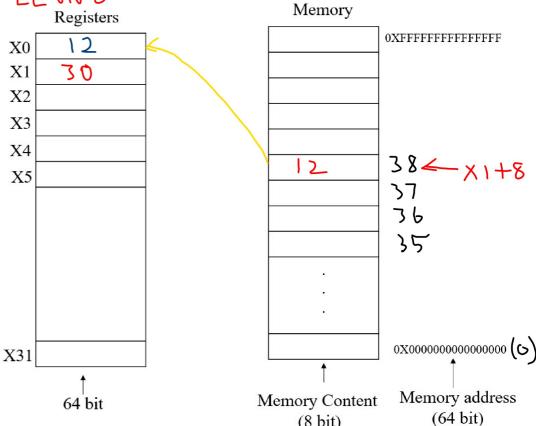
LDUR X0, [X1, #8]

Assume, XI = 30

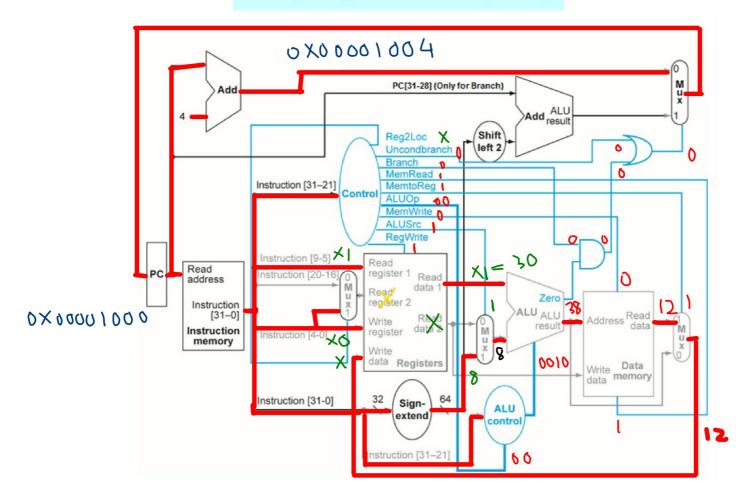
(8 bit)

 $\times 1 + 8 = 30 + 8 = 38$

LE GV 8



Tracing Datapath: LDUR X0, [X1, #8]



```
Reg2Loc = X
Uncondbranch= 0
Branch = •
MemRead = 1
MemtoReg = 1
ALUOp = ♦ ♦
MemWrite = 0
ALUSrc =
RegWrite =
```

0x00001000 LDVR Xo, [x1, #8]