

-If assigned in "To describe combinational always@(in) Begin a cose statement logic to be synthesized end or an always We only use assign and cose statements" always@(*) begin Block end -Not a register Structure begin/ens/ Case Stortement -like {} in c module Count (in, out); - specifys on fruth (Brackets) input [3:0] in; toble output out: -must have all Assign possibilities rowed (Mobile Boly (logic)) or include a default Computed endmodule Wherever RHS thorges, Wirel Describes hordwere -outputs are a wire by default

Testberch)

I==

Initial > like an

always block

#100 + wait 1000s

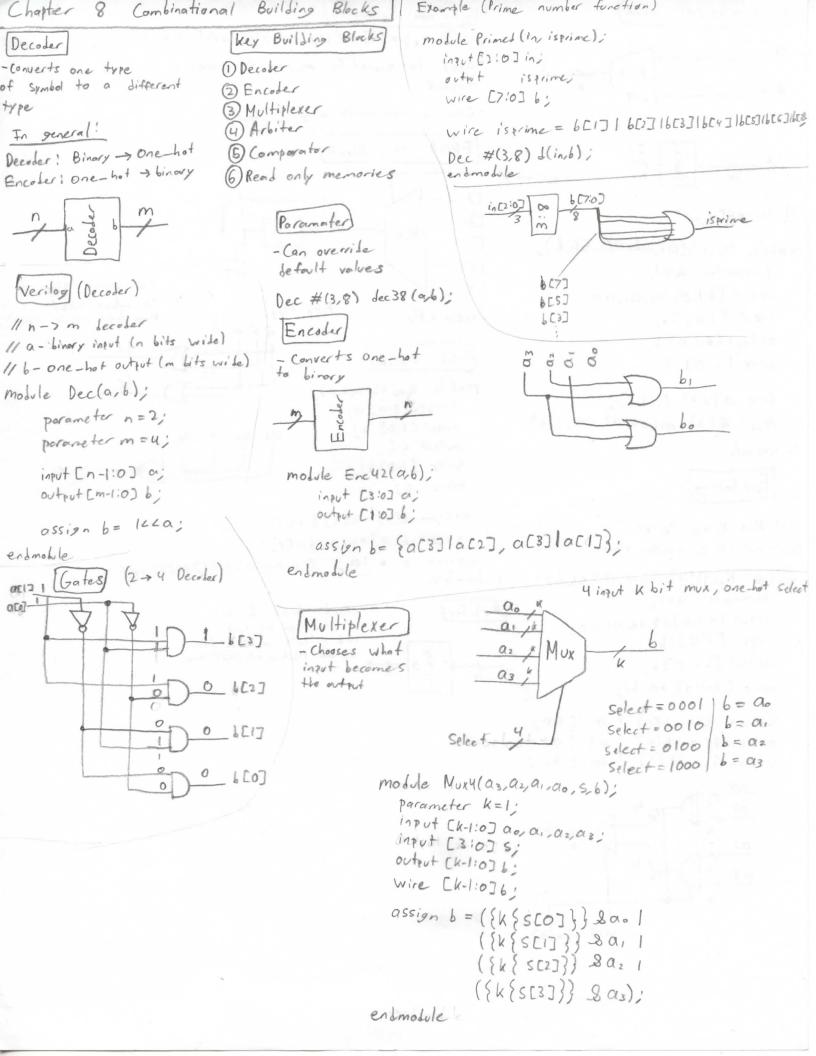
\$display ("like printf");

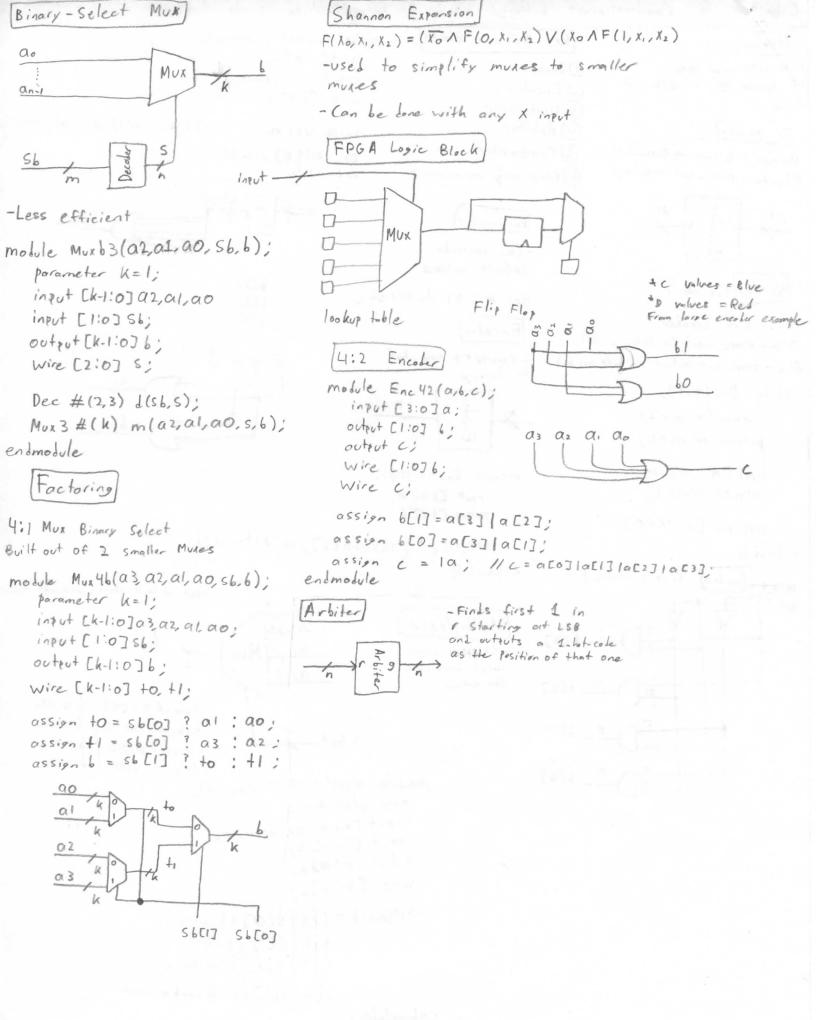
repeat > loop enerator

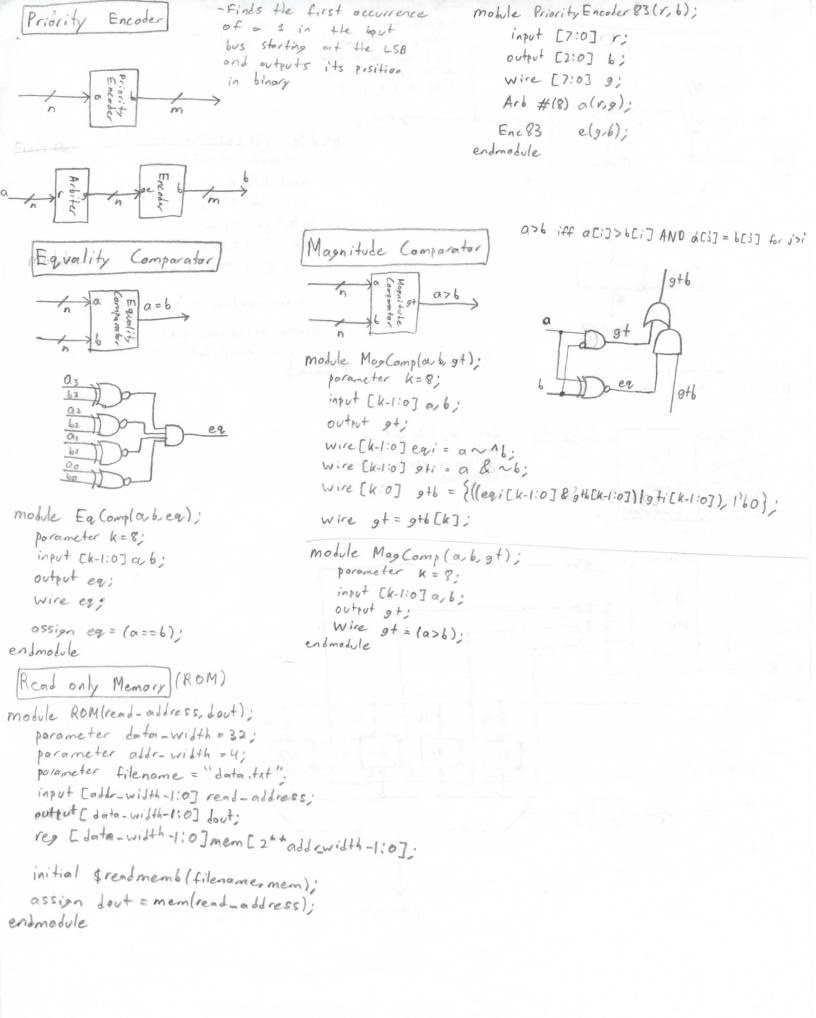
by default

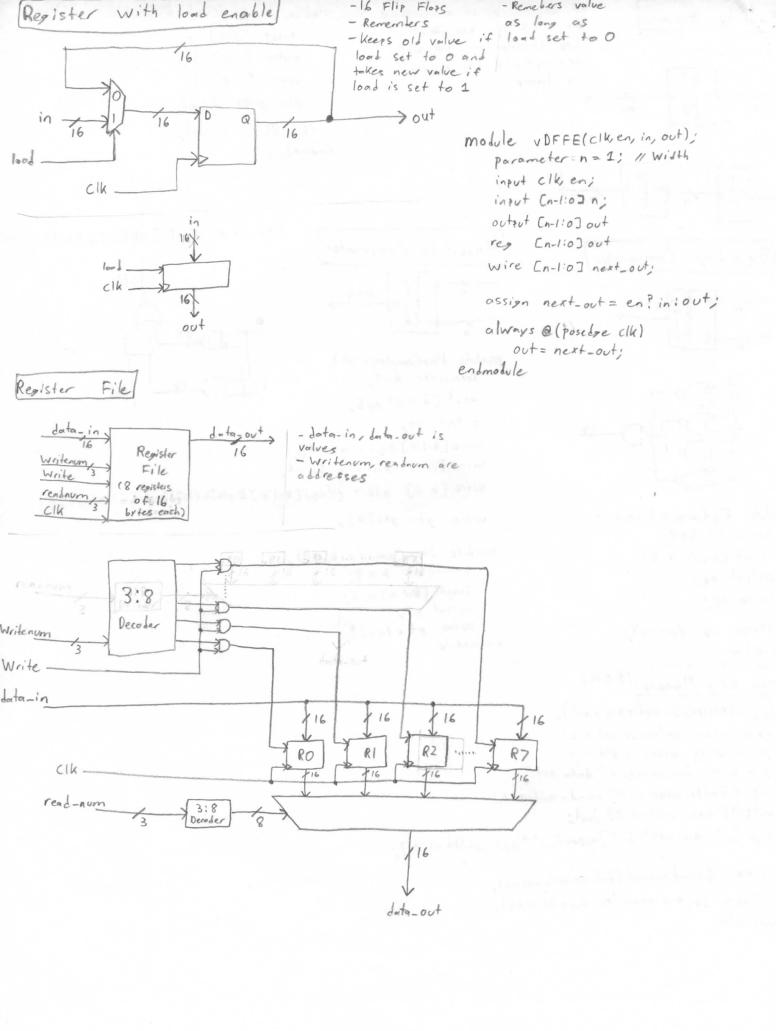
- Assigned by an ASSIGN studement

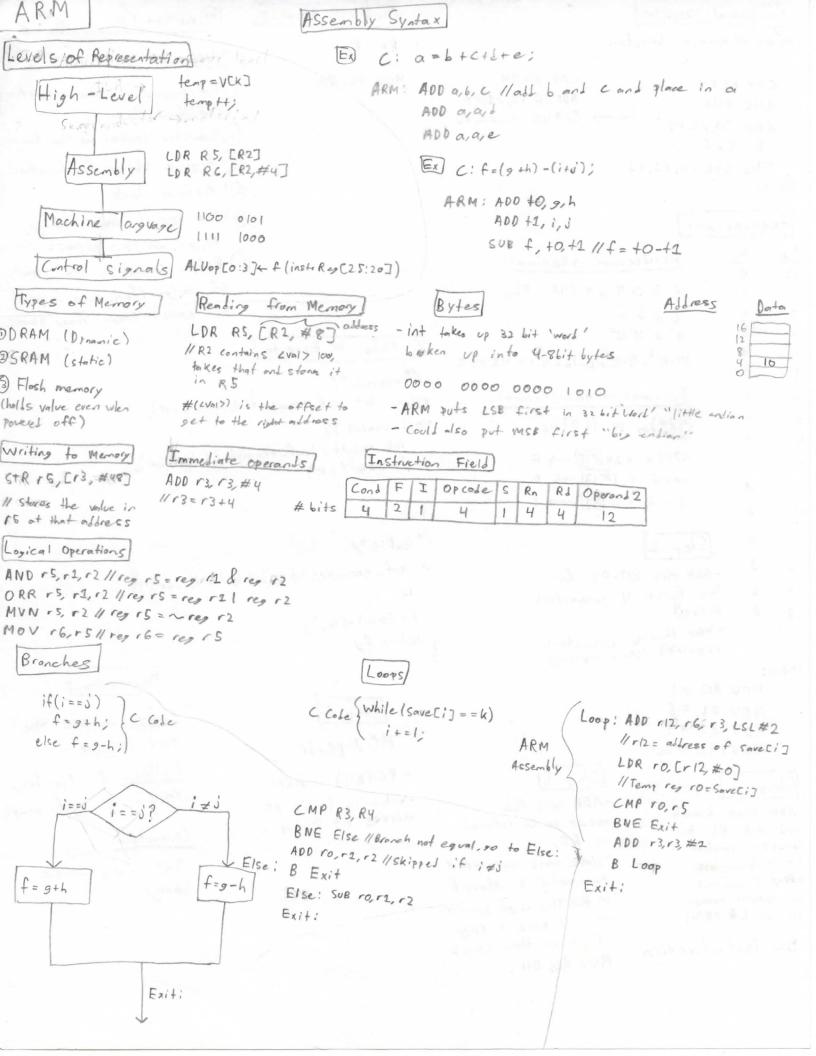
- Used to connect modules











-Con eliminate Lranches	Bx Rm	Steps: The same And The
CMP R3, R4 BNE EISE ADDEQ $ro, r1, r2$ ADD $ro, r1, r2$ B Exit CMP R3, R4 ADDEQ $ro, r1, r2$ SUBNE $ro, r1, r2$	MOV PC. Rm	OPut parameters where function can find them 3 Transfer control to the function
Else: SUB ro, r2, r2 Exit:		(3) Acquire Storage for function (4) Perform task
Angles Equipment		(5) Put result where colling
Dio Hi6 Hexideeinol -> Decimal:		function can access it
O O		6) Return control to the point
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		of origin (function might be called from many places)
3 3 (636216160	C code to Execute	
4 4 10.163+11.162+0.16+9.1=43,785	1-1	Tall and the last of the last
6 6 Decimal - Hexadecimal;	extern int leaf-example	1.1.1.1.1.1.1
$7 7 (479)_{10} = (1DF)_{16}$	Void main() 5	and the second second
8 8	int result = lenf-exp	ample (1,59.20)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	if (result>10)	man ar tall - Comment of an Ro
11 6 = 0 R1 -> 1	3	
12 c Step 1	/* leaf.c*/	
-ARM uses RO-R3 for	int leaf-example (int gi	41 24 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
14 e the first 4 parameters	T/	(cto 1, 10t) }
15 + passed	f = (9+h) - (i+j)	
- More than 4 parameters requires using memory	g return f;	
Mov RO, #1	(Prote-	Terminology
MOV R1, #5	Step 6	Caller: makes the
MOV R2, #9 NOV R3, #20	MOV pc, Ir	coll icimain
[[]	- PC(RIS) in ARM	Callec: function les
Step 2 - ARM puts the	- Value in 10 is no	coulled it ileaf-example
and link BL to lesult to be returned	adress at BL+4	Convention;
to subroutine *Note this overwrites	5	- ARM uses Callee
- Places allress Parameter 1 placed		Saving
to in LR (RI4) We will save on set		
BL leaf fraction on the stock		
Mov Ro, Ry		

Function Call in ARM