(1967) (1992) HOLLESSAD) MARGEY.

Higher down 2 Minute of 21 stage

Functions

- Converts operation code to machine code

LOA ALPHA, PAROLES DE LA LA CONTRACTOR DE LA CONTRACTOR D

-converts symbolic operand to machine address.

- generation of object code for each assembly instruction.

* Two types of assembler

Morra di pa poi... single pais , paus C

Two pars

+ forward reference: reference to label defined later in program eg:- 1003 CLOOP LOA RETADR

1088 RETADE RESB 1

This is the problem with single pais assembles resolved using two pass assembles.

= 300 pars assembler, SYMTAB. In first pars it stores all latels and its corresponding address in SYMTAB of in second pass generates op-wode

Data atructures

1) OPTAB (Operation coole Table)

opeode	machine	Format	length
LDA	00	3	3

shile generating moderne object code of opcode, its machine code is required, this is obtained through optable.

optab. Construction during pass 7

a) SYMTAB (Bymbol Table) > relative - R

ingly was a cost oct +

4	SYMBOL	TYPE LADDRE	
	RETADR	R	1033
	CLOOP	A	2033

sused to alore symbols and its corresponding address.

-> Construction diowng pass I all shows the

3) LOCETR Chocation Counter)

of each instruction.

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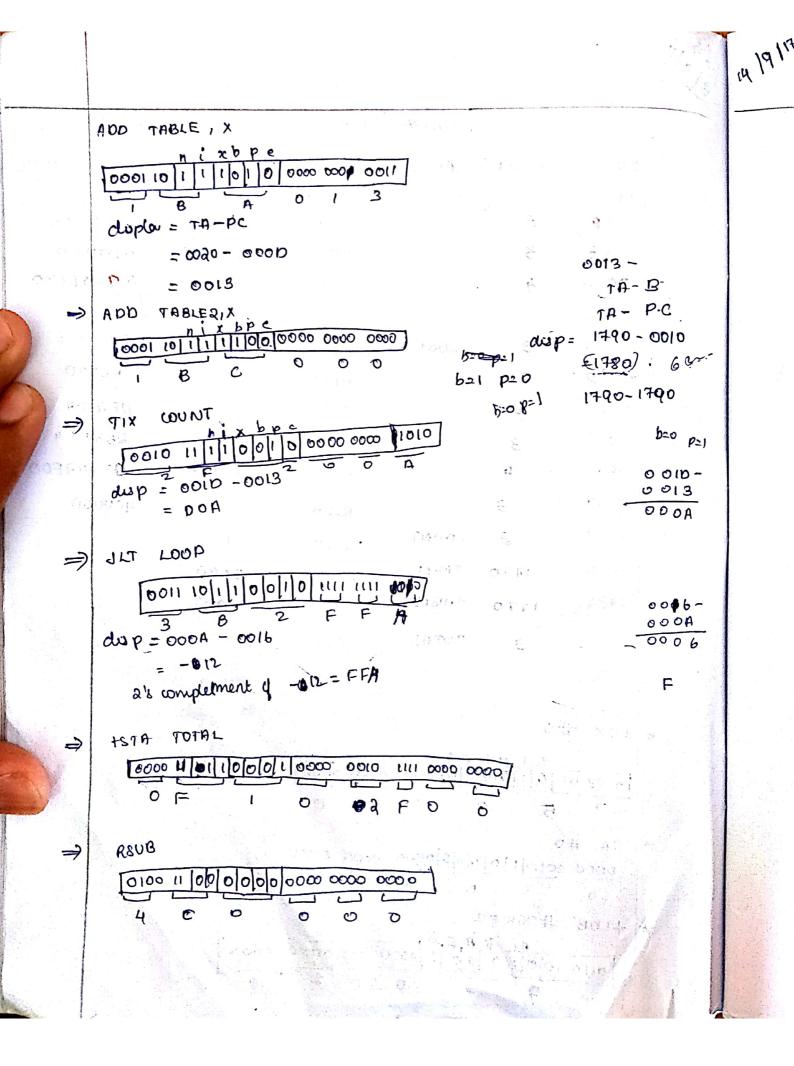
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the state of the prison because

and Dhini A

HAND	ASS	EMB	LY
------	-----	-----	----

		HAND ASS	ENGL	Karaja ja ja ja ja ja	(M)
_oc	LENGTH	LABEL	Whemonic	OPERAND	OBJECT WOE
0000		SUM	START	0	
0000	3		LDX	#0	050000
0003	3		LDA	#0	010000
0,006	4		+LDB	#TABLE2	69100000
- 4	1	2	BASE	TABLE 2	
000 A	3	LOOP.	ADD	TABLEIX	164013
000 P	5 .		ADD	TABLESIX	180000
0010	3		TIX	COUNT	afacca .
0013	3		317	LOOP	3BQFF4
0016	4		+STA	TOTAL	OFLORFOO
OCIA	3		RSUB	4.00	40000
DOCED	3	COUNT	RESW	.1	
0020	1770	TABLE	RESW	2000	
1790	177-0	THBLE2	RESW	2000	
3,500	3	TOTAL	RESW	1 3 1 F 8 3	gan
aro3	3	1	END	FIRST	
LOX	#0				
LUA	nirh	oe			
0000	010100	000000	0000 0000		
0		7 0	0 0		
LDA .	# 0				
0000	0010110	000000000	0000 0000		
0		D . O	0 0		
+LDE	#TABLE	2			
	te in the second	h n C	0 0000 0000 000	<u></u> -	



Output Format Assembler

का राम प्रमाण की विक्रियों के प्रमाण की अन्य

object pacgacim ja nacistila moj simple bilacis i reje

1) Headen (1)

2) Text Record (more than 1)

3) End Record (1)

@ Header Record

cole-7. - program name on Anordon Constant

col 2-13 - Starting address (Rex)

cop14-19 - length of object prym

eg:-1000 COPY START (୭୦୦)

RETADR 14 1033 FIRST STL O00)

CLOOP ISUB ROREC 482039 1003

> ००।०२० THREE LOA

OC1036 LENGTH STA OIE

482061 JSUB WRREC loal

FIRST 8079 END

H V COBA 001000 V 00104 d ogm name

\mathcal{D} Text Record

co[1: 7

cel 2-7: Exerting address for object code in this record col 8-9: Length of object code is this record is bytes cel 10-69:- object code (in hex) What way

for the above eg:-

TA GOLOGO VIEV 141093' H88034 V BO 1036 V8810 30 V 301012V 482061 A 801003 A 00109A, 6001039 A 00109D

TAGOLOIE A 15 A OCLOSEA 4880614 organ sund to make at a propertion

End Record

wli: E

col 2-17 Address of 1st executable instruction

ag = E 1001000

THE POST ASSESSMENT ASSESSMENT ASSESSMENT