





Algorithm begin Read the first i/p line if opcode 'sharn' then begin Save operand as Starting address britalize locate to stanting address write line to Indermediate tile Read next line end if else Init Lucedy to 0 while opende \$ ENM begin if this is not command line Beasch Sympabolox label. else Set error flag insect (label, locals) into Symtas) Seasch opTAB fox opcode. if found other add 3 to locate else if opcode = word then add 3 to localy else if opeode= RESW then add 3 # perand to localy else if Opcode = RESB then add, # [operand] to locals else if operale: RESB then add, # [operand] to localy else 16 opcocle: 'Byte' then Begin final length of constand in byle and length to locals else

Set error flag

end

with line to Intermediate file

Record next PIP line

end

end

socile last line to Intermediate file

Save (lover. start) if lover of program

end

input	· dend		Ontal tol		
copy	87AR7	2000	Optab. Inl	Symdab dat	
*	LDA	True	ADD 18	ALPHA	2015
*	S97A	ALPHA	SUB IL	FIVE	2018
*	LDCH	CHAR	LDA 00 LDB 68	CHAR	2021
*	STCH	67	LDx 54	TEST	2011
ALPHA	RESID	AIB 4	STB 78	cı	5011
FILE	WORD	5	STX LB		4021
CHAR	Byte	C	LDCH 50		
TEST	WORD	6	MUL 20		
Cl	Resw	1	MOV 1D		
*	enp	* *	START N		
			and a		

Inder . tat

2000	copy	START	9000
2003		LDA	2) NE
2003		ATE	ALPHA
2006	М	LDCH	CHARZ
2009	×	STEH	e±
2012	A	Mov	A/B
2015	ALPHA	Resw	1
2018	FIVE	WORD	12
2021	CHAR	BUTE	c, 80t,
2022	1657	WORD	Ь
2025	C1	Resw	1
*	and	颁求	

lungth. Int