Line		Symbolic Rep	resentation of G	enerated Code
1	STATS	START	0	{program header}
		EXTREF	XREAD, XWRI	TE:
		STL	RETADR	{save return address}
	~	∙ਹ	(EXADDR)	
	RETADR	RESW	1	
3	SUM	RESW	1_	(variable declarations)
	SUMSQ	RESW	1.	
	I	RESW	1. 1.	2
	VALUE	RESW		
	MEAN	RESW	1	
	VARIANCE	RESW	1	
5	{EXADDR}	LDA	#0	$\{SUM := 0\}$
		STA	SUM	*
6		LDA	#0	$\{SUMSQ := 0\}$
		STA	SUMSQ	and the second s
7		LDA	#1	{FOR I := 1 TO 100}
	(L1)	STA	T	
		COMP	#100	
		JGT	$\{L2\}$	· ·
9		+JSUB	XREAD	{READ(VALUE)}
		WORD	1	
	7 - 17	WORD	VALUE	and the same of th
10		LDA	Sum	{SUM := SUM + VALUE}
		ADD	VALUE	
	‡ n	STA	SUM	
11		LDA	VALUE	{SUMSQ := SUMSQ + VALUE * VALUE}
		MUL	VALUE	
		ADD	SUMSQ	
,		STA	SUMSQ	
		LDA	$\mathbf{I}^{\scriptscriptstyle{(1)}}$	(end of FOR loop)
		ADD	#1	
:		J	{L1}	
13	{L2}	LDA	SUM	{MEAN := SUM DIV 100}
	d se	DIA	#100	*
		STA	MEAN	
14		LDA	SUMSQ	{VARIANCE := SUMSQ DIV 100 - MEAN * MEAN}
		DIV	#100	
		STA	<u>T1</u>	
		LDA	MEAN	•
		MUL	MEAN	
		STA	T2	•
		LDA	T1:	
		SUB	T2	₹
		STA	VARIANCE	Transferring Charles have the property and the property of the control of the con
15		+JSUB	XWRITE	{WRITE (MEAN, VARIANCE) }
		WORD	2	·
		WORD	MEAN	

Figure 5.21 Symbolic representation of object code generated for the program from Fig. 5.1.

VARIANCE RETADR

1

{return}

{working variables used}

WORD

RESW

RESW END

LDL RSUB

 \mathbf{T} 1

T2