

Appendix C - Sample program

	SETDF	\$24
ADDCHC	EQU	\$2FA2
ANTISH	EQU	\$3088
NEWLOC	EQU	\$3074
REALCC	EQU	\$2FCB
WRTSHP	EQU	\$30B8
NEWVEC	EQU	\$2ED4
RNDVEC	EQU	\$2F15
SHPADR	EQU	\$2EB5
OKMOV	EQU	\$2FE5
PSCR	EQU	\$2446
RBIT	EQU	\$2443
RLOC	EQU	\$2444
VCUT	EQU	\$243C
PSHP	EQU	\$243B
TMP1	EQU	\$2432
TMP3	EQU	\$2430
SHTBL	EQU	\$241B
	ORG	\$2500
	LDA	#\$24
	TFR	A,DP
	STA	65478
	STA	65481
	STA	65482
	STA	65485
	STA	65487
	STA	65488
	STA	65472
	STA	65474
	STA	65477
	LDA	#255
	STA	65314
	LDX	#12547
LC1	CMPX	#16383
	BGT	L02
	CLR	,X+
	BRA	L01
L02	LDD	#\$0D00
	STD	SHTBL
	LDD	#5898
	STD	PSCR
	JSR	REALCO
	LDA	#38
	STA	PSHP
	JSR	SHPADR
	CLR	TMP3
X01	INC	TMP3
	LDA	TMP3
	CMPA	#80
	BGT	X03
	JSR	ADDCHQ
	LDD	PSCR
	AGDD	#01
	STD	PSCR

	BRA	X01
X03	INC	TMP3
	LDX	#12538
X04	LEAX	9,X
	LDA	,X
	BEQ	X03
	TST	TMP3
	BGE	X05
	JSR	NEWVEC
	LDD	VOUT
	STD	7,X
	BRA	X06
X05	BGT	X06
	JSR	RNDVEC
	LDD	VOUT
	STD	7,X
X06	JSR	ANTISH
	JSR	NEWLOC
	JSR	REALCO
	JSR	OKMOV
	BEQ	X09
	JSR	RNDVEC
	LDD	VOUT
	STD	7,X
	JSR	NEWLOC
	JSR	REALCO
	JSR	OKMOV
	BEQ	X09
	LDD	4,X
	STD	RLOC
	LDA	6,X
	STA	RBIT
	LDD	1,X
	STD	PSCR
X09	JSR	WRTSHP
	LDD	PSCR
	STD	1,X
	LDD	RLOC
	STD	4,X
	LDA	RBIT
	STA	6,X
	BRA	X04
	END	