Instruction			Α	D	COUNT	PROD	PROD+1	Α	D	COUNT	PROD	PROD+1		Α	D	COUNT	PROD	PROD+1
BEGIN																		
	LDAA	INPORT0	INPORT0	-	-	-	-											
	LDAA	INPORT1	INPORT1	-	-	-	-											
	LDAI	LOOP_CNT	7	-	-	-	-											
	STAA	COUNT	7	-	7	-	-											
	LDAI	ZERO	0	-	7	-	-											
	STAA	PROD	0	-	7	0	-											
	LDAA	MPR	1F	-	7	0	-											
	STAA	PROD+1	1F	-	7	0	1F											
MULLOOP								6	30	6	18	F		5	30	5	24	7
	LDAI	ONE	1	-	7	0	1F	1	30	6	18	F		1	30	5	24	7
	STAR	D	1	1	7	0	1F	1	1	6	18	F		1	1	5	24	7
	LDAA	PROD+1	1F	1	7	0	1F	F	1	6	18	F		7	1	5	24	7
	ANDR	D	1	1	7	0	1F	1	1	6	18	F		1	1	5	24	7
	BEQA	BYPASS	NOT	TAKEN	7	0	1F	1	1	6	18	F		1	1	5	24	7
	LDAA	MCAND	30	1	7	0	1F	30	1	6	18	F		30	1	5	24	7
	STAR	D	30	30	7	0	1F	30	30	6	18	F		30	30	5	24	7
	LDAA	PROD	0	30	7	0	1F	18	30	6	18	F		24	30	5	24	7
	ADCR	D	30	30	7	0	1F	48	30	6	18	F	!	54	30	5	24	7
	STAA	PROD		30	7	30	1F	48	30	6	48	F	!	54	30	5	54	7
BYPASS																		
	LDAA	PROD	30	30	7	30	1F	48	30	6	48	F	!	54	30	5	54	7
	RORC		18	30	7	30	1F	24	30	6	48	F		2A	30	5	54	7
	STAA	PROD	18	30	7	18	1F	24	30	6	24	F	1	2A	30	5	2A	7
	LDAA	PROD+1	1F	30	7	18	1F	F	30	6	24	F		7	30	5	2A	7
	RORC		F	30	7	18	1F	7	30	6	24	F		3	30	5	2A	7
	STAA	PROD+1	F	30	7	18	F	7	30	6	24	7		3	30	5	2A	3
	CLRC		F	30	7	18	F	7	30	6	24	7		3	30	5	2A	3
	LDAA	COUNT	7	30	7	18	F	6	30	6	24	7		5	30	5	2A	3
	DECA		6	30	7	18	F	5	30	6	24	7		4	30	5	2A	3
	STAA	COUNT	6	30	6	18	F	5	30	5	24	7		4	30	4	2A	3
	BPLA	MULLOOP		TAKEN				TAKEN						TAKEN				
	LDAA	PROD																
	STAA	OUTPORT0																
	LDAA	PROD+1																
	STAA	OUTPORT1																

Instruction			Α	D	COUNT	PROD	PROD+1	Α	D	COUNT	PROD	PROD+1	Α	D	COUNT	PROD	PROD+1
BEGIN																	
	LDAA	INPORT0															
	LDAA	INPORT1															
	LDAI	LOOP_CNT															
	STAA	COUNT															
	LDAI	ZERO															
	STAA	PROD															
	LDAA	MPR															
	STAA	PROD+1															
MULLOOP			4	30	4	2A	3	3	30	3	2D	1	2	30	2	2E	80
	LDAI	ONE	1	30	4	2A	3	1	30	3	2D	1	1	30	2	2E	80
	STAR	D	1	1	4	2A	3		1	3	2D	1	1	1	2	2E	80
	LDAA	PROD+1	3	1	4	2A	3	1	1	3	2D	1	80	1	2	2E	80
	ANDR	D	1	1	4	2A	3	1	1	3	2D	1	0	1	2	2E	80
	BEQA	BYPASS	1	1	4	2A	3	1	1	3	2D	1			TAK	ŒN	
	LDAA	MCAND	30	1	4	2A	3	30	1	3	2D	1					
	STAR	D	30	30	4	2A	3	30	30	3	2D	1					
	LDAA	PROD	2A	30	4	2A	3	2D	30	3	2D	1					
	ADCR	D	5A	30	4	2A	3	5D	30	3	2D	1					
	STAA	PROD	5A	30	4	5A	3	5D	30	3	5D	1					
BYPASS																	
	LDAA	PROD	5A	30	4	5A	3	5D	30	3	5D	1	2E	30	2	2E	80
	RORC		2D	30	4	5A	3	2E	30	3	5D	1	17	30	2	2E	80
	STAA	PROD	2D	30	4	2D	3	2E	30	3	2E	1	17	30	2	17	80
	LDAA	PROD+1	3	30	4	2D	3	1	30	3	2E	1	80	30	2	17	80
	RORC		1	30	4	2D	3	80	30	3	2E	1	40	30	2	17	80
	STAA	PROD+1	1	30	4	2D	3	80	30	3	2E	80	0	30	2	17	40
	CLRC		1	30	4	2D	1	80	30	3	2E	80	0	30	2	17	40
	LDAA	COUNT	4	30	4	2D	1	3	30	3	2E	80	2	30	2	17	40
	DECA		3	30	4	2D	1	2	30	3	2E	80	1	30	2	17	40
	STAA	COUNT	3	30	3	2D	1	2	30	2	2E	80	1	30	1	17	40
	BPLA	MULLOOP		•	TAK	•		•	TAK	EN	•		•	TAK	ŒN	•	
	LDAA	PROD															
	STAA	OUTPORT0															
	LDAA	PROD+1															
	STAA	OUTPORT1															

Instruction			Α	D	COUNT	PROD	PROD+1	Α	D	COUNT	PROD	PROD+1	OUTPORT0	OUTPORT1
BEGIN														
	LDAA	INPORT0												
	LDAA	INPORT1												
	LDAI	LOOP_CNT												
	STAA	COUNT												
	LDAI	ZERO												
	STAA	PROD												
	LDAA	MPR												
	STAA	PROD+1												
MULLOOP			1	30	1	17	40	0	30	0	В	A0		
	LDAI	ONE	1	30	1	17	40	1	30	0	В	A0		
	STAR	D	1	1	1	17	40	1	1	0	В	A0		
	LDAA	PROD+1	40	1	1	17	40	Α0	1	0	В	A0		
	ANDR	D	0	1	1	17	40	0	1	0	В	A0		
	BEQA	BYPASS			TAKEN					TAK				
	LDAA	MCAND												
	STAR	D												
	LDAA	PROD												
	ADCR	D												
	STAA	PROD												
BYPASS														
	LDAA	PROD	17	30	1	17	40	В	1	0	5	A0		
	RORC		В	30	1	17	40	5	1	0	5	A0		
	STAA	PROD	В	30	1	В	40	5	1	0	5	A0		
	LDAA	PROD+1	40	30	1	В	40	Α0	1	0	5	A0		
	RORC		A0	30	1	В	40	D0	1	0	5	A0		
	STAA	PROD+1	0	30	1	В	A0	0	1	0	5	0		
	CLRC		0	30	1	В	A0	0	1	0	5	0		
	LDAA	COUNT	1	30	1	В	A0	0	1	0	5	0		
	DECA		0	30	1	В	A0	FF	1	0	5	0		
	STAA	COUNT	0	30	0	В	A0	FF	1	FF	5	0		
	BPLA	MULLOOP			TAKEN			NOT T	AKEN					
	LDAA	PROD						5	1	FF	5	0		
	STAA	OUTPORT0						5	1	FF	5	0	05	D0
	LDAA	PROD+1						0	1	FF	5	0		
	STAA	OUTPORT1		<u> </u>				0	1	FF	5	0		