

[illegible]

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Instruction			A	D	COUNT	PROD	PROD+1		A	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	B	A0		
	LDAI	ONE	1	30	1	17	40		1	30	0	B	A0		
	STAR	D	1	1	1	17	40		1	1	0	B	A0		
	LDAA	PROD+1	40	1	1	17	40		A0	1	0	B	A0		
	ANDR	D	0	1	1	17	40		0	1	0	B	A0		
	BEQA	BYPASS	TAKEN						TAKEN						
	LDAA	MCAND													
	STAR	D													
	LDAA	PROD													
	ADCR	D													
	STAA	PROD													
BYPASS															
	LDAA	PROD	17	30	1	17	40		B	1	0	5	A0		
	RORC		B	30	1	17	40		5	1	0	5	A0		
	STAA	PROD	B	30	1	B	40		5	1	0	5	A0		
	LDAA	PROD+1	40	30	1	B	40		A0	1	0	5	A0		
	RORC		A0	30	1	B	40		D0	1	0	5	A0		
	STAA	PROD+1	0	30	1	B	A0		0	1	0	5	0		
	CLRC		0	30	1	B	A0		0	1	0	5	0		
	LDAA	COUNT	1	30	1	B	A0		0	1	0	5	0		
	DECA		0	30	1	B	A0		FF	1	0	5	0		
	STAA	COUNT	0	30	0	B	A0		FF	1	FF	5	0		
	BPLA	MULLOOP	TAKEN						NOT TAKEN						
	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							0	1	FF	5	0		