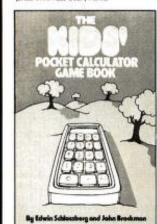
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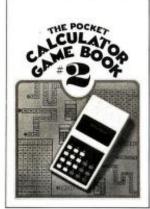
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MWILLIAM MORROW

P@Rn 8 n (Pop indirect)

The low order ACC byte is loaded from the memory location whose address resides in Rn after Rn is decremented by 1 and the high order ACC byte is cleared. Branch conditions reflect the final 2 byte ACC contents which will always be positive and never minus 1. The carry is cleared. Because Rn is decremented prior to loading the ACC, single byte stacks may be implemented with the ST @Rn and POP @Rn operations (Rn is the stack pointer).

85	POP	@RS	Pop 4 off stack.
85	POP	@R5	Pop 5 offstack.
85	POP	@R5	Pop 6 off stack into ACC.
35	ST	@R5	Push 6 onto stack.
10 06 00	SET	R0, 6	Load 6 into ACC.
35	ST	@R5	Push 5 onto stack.
10 05 00	SET	R0, 5	Load 5 into ACC.
35	ST	@R5	Push 4 onto stack.
10 04 00	SET	R0, 4	Load 4 into ACC.
			Init stack pointer.
Example: 15 34 A0	SET	R5. A034	Keltanan Kanada and American
Daymontolog			

STP ⊗Rn 9 n (Store pop indirect)

The low order ACC byte is stored into the memory location whose address resides in Rn after Rn is decremented by 1. Then the high order ACC byte is stored into the memory location whose address resides in Rn after Rn is again decremented by 1. Branch conditions will reflect the 2 byte ACC contents which are not modified. STP @Rn and PLA @Rn are used together to move data blocks beginning at the greatest address and working down. Additionally, single byte stacks may be implemented with the STP @Rn and LDA @Rn ops.

E	cam	ple:				
14	34	A0	SET	R4,	A034	Init pointers.
15	22	90	SET	R5.	9022	
84			POP	@R4		Move byte from A033
95			STP	@RS		to 9021.
84			POP	@R4		Move byte from A032
95			STP	@R5		to 9020.

ADD Rn A n (Add)

The contents of Rn are added to the contents of the ACC (R0) and the low order 16 bits of the sum restored in ACC. The 17th sum bit becomes the carry and other branch conditions reflect the final ACC contents.

Example:			
10 34 76 11 27 42 A1	SET SET ADD	R0, 7634 R1, 4227 R1	Init R0 (ACC) and R1. Add R1 (sum = 8858, carry clear)
A0	ADD	R0	Double ACC (R0) to 7086 with carry set.

SUB Rn | B n | (Subtract)

The contents of Rn are subtracted from the ACC contents by performing a two's complement addition:

ACC ACC + Rn + 1

The low order 16 bits of the subtraction are restored in the ACC. The 17th sum bit becomes the carry and other branch conditions reflect the final ACC contents. If the 16 bit unsigned ACC contents are greater than or equal to the 16 bit unsigned Rn contents then the carry is set, otherwise it is cleared. Rn is not disturbed.

Example:			
10 34 76 11 27 42	SET	R0, 7634 R1, 4227	Init R0 (ACC) and R1.
A1	SUB	R1	Subtract R1 (diff = 340D with carry set)
AD	SUB	R0	Clears ACC (R0)

POPD @Rn C n (POP Double byte indirect)

Rn is decremented by 1 and the high order ACC byte is loaded from the memory location whose address now resides in Rn. Then Rn is again decremented by 1 and the low order ACC byte is loaded from the corresponding memory location, granch conditions reflect the final ACC contents. The carry is cleared. Because Rn is decremented prior to loading each of the ACC halves, double byte stacks may be implemented with the STD ⊕ Rn and POPD ⊕ Rn operations. (Rn is the stack pointer).

15 34 A0	SET R5.	A034	Init stack pointer.
	200	100000000000000000000000000000000000000	
10 12 AA	SET RO,	AA12	Load AA12 into ACC
75	STD @R5		Push AA12 onto stack.
10 34 BB	SET RO.	BB34	Load BB34 into ACC.
75	STD @R5		Push BB34 onto stack.
10 56 CC	SET RO.	CC56	Load CC56 into ACC.
75	STD @R5		
C5	POPD @R5		Pop CC56 off stack.
C5	POPD @R5		Pop 8834 off stack.
C5	POPD @R5		Pop AA 12 off stack.

CPR Rn D n (Compare)

The ACC (R0) contents are compared to Rn by performing the 16 bit binary subtraction ACC-Rn and storing the low order 16 difference bits in R13 for subsequent branch tests. If the 16 bit unsigned ACC contents are greater than or equal to the 16 bit unsigned Rn contents then the carry is set, otherwise it is cleared. No other registers, including ACC and Rn, are disturbed.

E	camp	ple:				
15 16 10		A0 A0 00	LOOP	SET SET	R5, A034 R6, A0BF R0, 0	
75				STD	@R5	Clear 2 locs, incr R5 by 2.
25 D6				CPR	R5 R6	Compare pointer R5 to limit R6.
02	F8			BNC	LOOP	Loop if carry clear.

INH Rn		1	n	(Increment)
The contents of Rn a conditions reflect the in				carry is cleared and other branch
Example:				
15 34 A0	SET	R5,	A034	Init R5 (pointer)
10 00 00	SET	R0,	0	Zero to R0.
55	ST	Ø R 5		Clears foc A034 and incrs R5 to A035.
E5	INR	R5		Incr R5 to A036
55	ST	@R5		Clears Ioc A036 (not A035)

DCR Rn

F n (Decrement)

The contents of Rn are decremented by 1, The carry is cleared and other branch conditions reflect the decremented value,

Example: (Clear nine bytes beginning at loc A034)

15 34 A0 SET R5, A034 Init pointer,
14 09 00 SET R4, 9 Init count,
10 00 00 SET R0, 0 Zero ACC.

	2.00	-	77.77		-	1 100 A 100	anne de Bartonia constituire de
1	14	09	00		SET	R4, 9	Init count.
	10	00	00		SET	R0, 0	Zero ACC.
	55			LOOP	ST	@R5	Clear a mem byte.
1	F4				DCR	R4	Decr count.
1	07	FC			BNZ	LOOP	Loop until zero.

SWEET16 Nonregister Instructions

TN 0 0 (Return to 6502 mode)

Control is returned to the 6502 and program execution continues at the location immediately following the RTN instruction. The 6502 registers and status conditions are restored to their original contents (prior entering SWEET16 mode).

Circle 16 on inquiry card.



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