

LOC	OBJ	LINE	SOURCE STATEMENT
		1	\$TITLE('MIP-ISIS RECEIVE')
		2	;ISISSMIP\$rcv:
		3	;
		4	; THIS ROUTINE IS CALLED BY USERS TO DETERMINE IF ANYTHING
		5	; HAS ARRIVED FOR THEM. THE PCRT THAT IS TO BE CHECKED IN
		6	; IN THE C REGISTER AND MUST BE 0-3 (NO CHECKING IS DONE).
		7	; IT CALLS INTASK TO SEE IF ANYTHING IS IN THE QUEUE. IF THERE
		8	; IS, THEN INTASK WILL PLACE IT ON THE PROPER PORT QUEUE.
		9	;
		10	;do;
		11	
		12	;declare P\$to\$mb (1) word external;
		13	
		14	NAME MIPRCV
		15	PUBLIC MIPRCV
		16	EXTRN PTOMB,INTASK
		17	CSEG
		18	;Mip\$rcv:
		19	; procedure(Port) word public;
		20	; declare Port byte,
		21	; Msgptr word,
		22	; Msglink based Msgptr word;
		23	
		24	; Msgptr = P\$to\$mb(Port);
0000	C5	25	MIPRCV: PUSH B
0001	CD0000	26	CALL INTASK ; DO POLL FIRST
0004	C1	27	POP B
0005	0600	28	MVI B,0
0007	210000	29	LXI H,PTOMB
000A	09	30	CAD B
000B	09	31	DAD B
000C	5E	32	MOV E,M
000D	23	33	INX H
000E	56	34	MOV D,M
000F	EB	35	XCHG ; MSGPTR IS IN H/L. PTR TO PSTOSMB IS IN D/E
		36	; if Msgptr <> 0 then P\$to\$mb(port) = Msglink;
0010	7C	37	MOV A,H
0011	B5	38	ORA L
0012	C8	39	RZ
0013	E5	40	PUSH H ; SAVE MSGPTR
0014	4E	41	MOV C,M
0015	23	42	INX H
0016	46	43	MOV B,M ; LINK IN MSGPTR IS IN B/C
0017	EB	44	XCHG ; PTR TO PSTOSMB IS IN H/L
0018	70	45	MOV M,B
0019	2B	46	DCX H
001A	71	47	MOV M,C
001B	E1	48	POP H
		49	; return Msgptr;
001C	C9	50	RET
		51	;end MIP\$rcv;
		52	
		53	;end ISISSMIP\$rcv;

ISIS-II 8080/8085 MACRO ASSEMBLER, V3.0  
MIP-ISIS RECEIVE

MIPRCV PAGE 2

LOC	OBJ	LINE	SCURCE STATEMENT
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PUBLIC SYMBOLS  
MIPRCV C 0000

EXTERNAL SYMBOLS  
INTASK E 0000 PTOMB E 0000

USER SYMBOLS  
INTASK E 0000 MIPRCV C 0000 PTCMB E 0000

ASSEMBLY COMPLETE, NO ERRORS