

LOC	OBJ	LINE	SOURCE STATEMENT
		1	\$TITLE('MIP-ISIS RECEIVE')
		2	;ISIS\$MIP\$rcv:
		3	;
		4	; THIS ROUTINE IS CALLED BY USERS TO DETERMINE IF ANYTHING
		5	; HAS ARRIVED FOR THEM. THE PORT 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	CD000C	26	CALL INTASK ; DO POLL FIRST
0004	C1	27	POP B
0005	0600	28	MVI B,0
0007	21000C	29	LXI H,PTCMB
000A	09	30	DAD B
000B	09	31	DAD S
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 P\$TOSMB 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 P\$TOSMB 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 ISIS\$MIP\$rcv;
		54	END

LOC	OBJ	LINE	SOURCE STATEMENT
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PUBLIC SYMBOLS  
MIPRCV C 000C

EXTERNAL SYMBOLS  
INTASK E 000C PTOMB E 000C

USER SYMBOLS  
INTASK E 000C MIPRCV C 000C PTOMB E 000C

ASSEMBLY COMPLETE, NO ERRORS