

PAGE 1 HIH03 SRC

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1 /
2 /1 SUITE : P.C.B. LAYOUT
3 /2 PROGRAM TITLE : REDAL3 MK5
4 /3 ROUTINE TITLE : HIH03
5 /
6 / THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE
7 / TO THE CUSTOMER; THE CONTENTS OR DETAILS OF ITS
8 / OPERATION MAY ONLY BE DISCLOSED TO PERSONS EMPLOYED
9 / BY THE CUSTOMER WHO REQUIRE A KNOWLEDGE OF THE
10 / SOFTWARE CODING TO CARRY OUT THEIR JOB. DISCLOSURE TO
11 / ANY OTHER PERSON MUST HAVE PRIOR AUTHORISATION FROM THE
12 / DIRECTORS OF REDAC SOFTWARE LIMITED.
13 /
14 /4 AUTHOR: K. FOSTER
15 /5 DATE : JAN 1975
16 /
17 /6 PURPOSE: ASSORTED INPUT/OUTPUT FUNCTIONS
18 /
19 /7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS
20 /
21 / CALL HIH03(MODE)
22 / MODE 1 - READ FROM PAPER TAPE
23 / 2 - WRITE TO PAPER TAPE, LP, OR CHECK ERRORS
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24      3 - WRITE TO LINE PRINTER
25      /
26      /
27      /8 I/O DEVICES AND FUNCTIONS: PR, PP - INPUT/OUTPUT TO PAPER TAPE
28      /
29      /9 REGISTERS USED: XR, LR, MQ
30      /
31      /10 LOCAL GLOBALS
32      .GLOBL HIH03
33      /
34      /11 EXTERNAL GLOBALS
35      .GLOBL ASS1, DUMP, DRAWCP, ASS4, MESS2, BUTTON, DUMPIT, PINVAL
36      .GLOBL .DA
37      /
38      /12 COMMON AREAS
39      00000 R 000000 A .XXMON .CBD .XX 1
40      00001 R 000000 A EOCOPP .CBD EOCOPP 1
41      00002 R 000000 A EOBRD .CBD EOBRD 1
42      00003 R 000000 A EOLIB .CBD EOLIB 1
43      00004 R 000000 A EOCONN .CBD EOCONN 1
44      00005 R 000000 A EOCOMP .CBD EOCOMP 1
45      00006 R 000000 A EOROUT .CBD EOROUT 1
46      00007 R 000000 A NAMES .CBD NAMES 1
47      00010 R 000000 A EONAME .CBD EONAME 1
48      /
49      /
50      641000 A ECLA=641000 /EAE CLEAR ACCUMULATOR
51      000005 A PR=5 /TAPE READER DAT SLOT
52      000006 A PP=6 /TAPE PUNCH DAT SLOT

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PAGE	3	HIH03	SRC
54		00011 R	000000 A HIH03 0
55		00012 R	120241 E JMS* .DA
56		00013 R	600015 R JMP .+1+1
57		00014 R	000000 A N
58		00015 R	735000 A CLX
59		00016 R	200242 R LAC (6
60		00017 R	722000 A PAL
61		00020 R	230000 R LUP LAC* .XXMON.X /COPY D.S. INFORMATION TO LOCAL VARIABLES
62		00021 R	050222 R DAC COPPER.X
63		00022 R	725001 A AXS 1
64		00023 R	600020 R JMP LUP
65			/
66			/
67		00024 R	220014 R LAC* N
68		00025 R	340243 R TAD (JMP DISP
69		00026 R	040027 R DAC DISP
70		00027 R	000000 A DISP 0 /PLUGGED WITH JUMP TO DISPATCH TABLE
71		00030 R	600034 R JMP RDTAPE
72		00031 R	600056 R JMP OUTPUT
73		00032 R	600137 R JMP LPOUT
74		00033 R	600056 R JMP OUTPUT
75			/
76			/
77			/
78			/ READ FROM PAPER TAPE
79			/
80		00034 R	120231 E RDTAPE JMS* ASS1 /PLUG TAPE READER INTO DAT TABLE
81		00035 R	600037 R JMP .+1+1
82		00036 R	000244 R .DSA (5
83			.INIT PR,0,0
		00037 R	000005 A *G CAL+0*1000 PR&777
		00040 R	000001 A *G 1
		00041 R	000000 A *G 0+0
		00042 R	000000 A *G 0
84		00043 R	750030 A CLA! IAC
85		00044 R	040220 R DAC MODE
86		00045 R	200244 R LAC (PR
87		00046 R	040221 R DAC IODEV
88		00047 R	120235 E TRANS JMS* DUMP /READ OR WRITE DUMP
89		00050 R	600053 R JMP .+1+2
90		00051 R	000221 R .DSA IODEV
91		00052 R	000220 R .DSA MODE
92		00053 R	651000 A ECLA! CLQ
93		00054 R	120234 E JMS* DRAWCP /REDRAW PICTURE
94		00055 R	620011 R EXIT JMP* HIH03
95			.EJECT

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/
/  OUTPUT SELECTED
/
OUTPUT JMS* ASS4 /PLUG TAPE PUNCH AND LINE PRINTER INTO DAT TABLE
JMS* MESS2 /DISPLAY MESSAGE
JMP .+1+1
.DSA THOU
JMP FOR8
.ASCII ! (59H KEY OP,  1 PTAPE,  2 L/P,  3 ERRORS!

00056 R 120232 E
00057 R 120237 E
00060 R 600062 R
00061 R 000230 R
00062 R 600115 R
00063 R 241527 A
00064 R 144100 A
00065 R 456133 A
00066 R 120236 A
00067 R 501304 A
00070 R 020142 A
00071 R 202412 A
00072 R 440640 A
00073 R 425304 A
00074 R 020144 A
00075 R 202305 A
00076 R 750130 A
00077 R 201006 A
00100 R 320212 A
00101 R 512451 A
00102 R 751246 A
00103 R 261004 A
00104 R 032100 A
00105 R 502511 A
00106 R 026100 A
00107 R 201525 A
00110 R 420100 A
00111 R 331010 A
00112 R 554222 A
00113 R 522765 A
00114 R 100000 A
00115 R 120233 E
00116 R 340245 R
00117 R 040120 R
00120 R 000000 A
00121 R 600127 R
00122 R 600137 R
00123 R 600176 R
00124 R 600207 R
00125 R 600115 R
00126 R 600055 R
00127 R 140220 R
00130 R 001006 A *G
00131 R 000001 A *G
00132 R 000000 A *G

FOR8 JMS* BUTTON /READ KEYS
TAD (JMP DISP1
DAC .+1
DISP1 /PLUGGED WITH DISPATCH AT RUN TIME
JMP WTTAPE
JMP LPOUT
JMP ERRORS
JMP PTH
JMP FOR8
JMP EXIT

/
/  WRITE TO PAPER TAPE
/
WTTAPE DZM MODE
.INIT PP,1,0
CAL+1*1000 PP&777
1
0+0

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00133 R 000000 A *G      0
121 00134 R 200242 R      LAC (PP
122 00135 R 040221 R      DAC IODEV
123 00136 R 600047 R      JMP TRANS
124 /
125 / WRITE TO LINE PRINTER
126 /
127 00137 R 120236 E      LPOUT JMS* DUMPIT
128 00140 R 600143 R      JMP .+1+2
129 00141 R 000224 R      .DSA LIB
130 00142 R 400003 R      .DSA EOLIB!400000
131 00143 R 120236 E      JMS* DUMPIT
132 00144 R 600147 R      JMP .+1+2
133 00145 R 000226 R      .DSA COMP
134 00146 R 400005 R      .DSA EOCOMP!400000
135 00147 R 200007 R      LAC NAMES
136 00150 R 040153 R      DAC NAMAD
137 00151 R 120236 E      JMS* DUMPIT
138 00152 R 600155 R      JMP .+1+2
139 00153 R 000000 A      NAMAD
140 00154 R 400010 R      .DSA EONAME!400000
141 00155 R 120236 E      JMS* DUMPIT
142 00156 R 600161 R      JMP .+1+2
143 00157 R 000225 R      .DSA CONN
144 00160 R 400004 R      .DSA EOCONN!400000
145 00161 R 120236 E      JMS* DUMPIT
146 00162 R 600165 R      JMP .+1+2
147 00163 R 000227 R      .DSA ROUTE
148 00164 R 400006 R      .DSA EOROUT!400000
149 00165 R 120236 E      JMS* DUMPIT
150 00166 R 600171 R      JMP .+1+2
151 00167 R 000223 R      .DSA BOARD
152 00170 R 400002 R      .DSA EOBRD!400000
153 00171 R 120236 E      JMS* DUMPIT
154 00172 R 600175 R      JMP .+1+2
155 00173 R 000222 R      .DSA COPPER
156 00174 R 400001 R      .DSA EOCOPP!400000
157 00175 R 600055 R      JMP EXIT
158 /
159 / ERRORS BUTTON
160 /
161 00176 R 120232 E      ERRORS JMS* ASS4
162 00177 R 120240 E      JMS* PINVAL
163 00200 R 600206 R      JMP .+1+5
164 00201 R 000246 R      .DSA (0
165 00202 R 400225 R      .DSA CONN!400000
166 00203 R 400004 R      .DSA EOCONN!400000
167 00204 R 000227 R      .DSA ROUTE
168 00205 R 400006 R      .DSA EOROUT!400000
169 00206 R 600055 R      JMP EXIT
170 /
171 / PTH BUTTON

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172
173      00207 R 120232 E    / PTH JMS* ASS4
174      00210 R 120240 E    JMS* PINVAL
175      00211 R 600217 R    JMP .+1+5
176      00212 R 000247 R    .DSA (1
177      00213 R 400225 R    .DSA CONN!400000
178      00214 R 400004 R    .DSA EOCONN!400000
179      00215 R 000227 R    .DSA ROUTE
180      00216 R 400006 R    .DSA EOROUT!400000
181      00217 R 600055 R    JMP EXIT
182      .EJECT
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PAGE	7	HIHO3	SRC		
183		00220	R 000000	A	MODE /1 FOR INPUT, 0 FOR OUTPUT
184		00221	R 000000	A	IODEV /INPUT/OUTPUT DAT SLOT
185		00222	R 000000	A	COPPER
186		00223	R 000000	A	BOARD
187		00224	R 000000	A	LIB
188		00225	R 000000	A	CONN
189		00226	R 000000	A	COMP
190		00227	R 000000	A	ROUTE
191					.DEC
192		00230	R 001750	A	THOU 1000
193					.OCT
194					.END
		00231	R 000231	E *E	
		00232	R 000232	E *E	
		00233	R 000233	E *E	
		00234	R 000234	E *E	
		00235	R 000235	E *E	
		00236	R 000236	E *E	
		00237	R 000237	E *E	
		00240	R 000240	E *E	
		00241	R 000241	E *E	
		00242	R 000006	A *L	
		00243	R 600027	R *L	
		00244	R 000005	A *L	
		00245	R 600120	R *L	
		00246	R 000000	A *L	
		00247	R 000001	A *L	
		SIZE=00250			NO ERROR LINES

PAGE 8 HIHO3 CROSS REFERENCE

ASS1	00231	35	80						
ASS4	00232	35	99	161	173				
BOARD	00223	151	186*						
BUTTON	00233	35	106						
COMP	00226	133	189*						
CONN	00225	143	165	177	188*				
COPPER	00222	62	155	185*					
DISP	00027	68	69	70*					
DISP1	00120	107	109*						
DRAWCP	00234	35	93						
DUMP	00235	35	88						
DUMPIT	00236	35	127	131	137	141	145	149	153
ECLA	641000	50*	92						
EOBRD	00002	41*	41	152					
EOCOMP	00005	44*	44	134					
EOCONN	00004	43*	43	144	166	178			
EOCOPP	00001	40*	40	156					
EOLIB	00003	42*	42	130					
EONAME	00010	47*	47	140					
EOROUT	00006	45*	45	148	168	180			
ERRORS	00176	112	161*						
EXIT	00055	94*	115	157	169	181			
FOR8	00115	103	106*	114					
HIHO3	00011	32	54*	94					
IODEV	00221	87	90	122	184*				
LIB	00224	129	187*						
LPOUT	00137	73	111	127*					
LUP	00020	61*	64						
MESS2	00237	35	100						
MODE	00220	85	91	119	183*				
NI	00014	57*	67						
NAMAD	00153	136	139*						
NAMES	00007	46*	46	135					
OUTPUT	00056	72	74	99*					
PINVAL	00240	35	162	174					
PP	000006	52*	120	121					
PR	000005	51*	83	86					
PTH	00207	113	173*						
RDTAPE	00034	71	80*						
ROUTE	00227	147	167	179	190*				
THOU	00230	102	192*						
TRANS	00047	88*	123						
WTTAPE	00127	110	119*						
.DA	00241	36	55						
.XXMON	00000	39*	61						