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7 / THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE
8 / CUSTOMER; THE CONTENTS OR DETAILS OF ITS OPERATION MAY ONLY
9 / BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO
10 / REQUIRE A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT
11 / THEIR JOB. DISCLOSURE TO ANY OTHER PERSON MUST HAVE PRIOR
12 / AUTHORIZATION FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED
13 /
14 /1 SUITE : P.C.B. LAYOUT
15 /2 PROGRAM TITLE : REDAL23 MARK2
16 /3 ROUTINE TITLE :
17 /
18 /4 AUTHOR :
19 /5 DATE :
20 /
21 /6 PURPOSE :
22 /
23 /
24 /7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS :
25 /
26 /8 I/O DEVICES AND FUNCTIONS :
27 /
28 /9 REGISTERS USED :
29 /
30 /10 EXTERNAL COMMON AREAS :
31 /
32 /11 INTERNAL COMMON AREAS :
33 /
34 /12 EXTERNAL GLOBALS :
35 /
36 /13 INTERNAL GLOBALS :
37 /
38 /14 CONDITIONAL ASSEMBLY PARAMETERS :
39 /
40 /15 METHOD :
41 /
42 /16 AMENDMENTS :
43 /
44 / EDITED FOR REDAL 14 15/9/72
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PAGE	2	SUBNOD	SRC	SUBNOD
45				.TITLE SUBNOD
46				.GLOBL SUBNOD,.DA
47		00000	R 000000 A	COMPS .CBD COMPS 1
48		00001	R 000000 A	LIBRY .CBD LIBRY 1
49		00002	R 740040 A	SUBNOD XX
50		00003	R 120151 E	JMS* .DA
51		00004	R 600011 R	JMP .+5
52		00005	R 000000 A	X1 0
53		00006	R 000000 A	Y1 0
54		00007	R 000000 A	COMPTR 0
55		00010	R 000000 A	NOD 0
56		00011	R 220000 R	LAC* COMPS
57		00012	R 040144 R	DAC COMPAD
58		00013	R 220001 R	LAC* LIBRY
59		00014	R 040145 R	DAC LIBAD
60		00015	R 220007 R	LAC* COMPTR /LOAD COMPTR
61		00016	R 744010 A	RCL /MULTIPLY BY 2
62		00017	R 360007 R	TAD* COMPTR /*3
63		00020	R 744010 A	RCL /*6
64		00021	R 340144 R	TAD COMPAD /FIRST WORD COMPONENT
65		00022	R 723003 A	AAC 3
66		00023	R 040150 R	DAC TEMP# /POINTS AT LIB WORD
67		00024	R 220150 R	LAC* TEMP
68		00025	R 060152 R	DAC* (16 /STORE IN INDEX REG 16
69		00026	R 652000 A	LMQ
70		00027	R 500153 R	AND (777 /REL. POINTER TO LIB
71		00030	R 340145 R	TAD LIBAD
72		00031	R 040147 R	DAC SCAN# /2ND WORD OF LIB
73		00032	R 750000 A	CLA
74		00033	R 640602 A	LLS 2 /UNPACK ORIENTATION
75		00034	R 040146 R	DAC ORIENT#
76		00035	R 440150 R	ISZ TEMP
77		00036	R 220150 R	LAC* TEMP
78		00037	R 500154 R	AND (1777 /UNPACK X POSITION
79		00040	R 060005 R	DAC* X1
80		00041	R 440150 R	ISZ TEMP
81		00042	R 220150 R	LAC* TEMP
82		00043	R 500154 R	AND (1777 /UNPACK Y POSITION
83		00044	R 060006 R	DAC* Y1
84		00045	R 220010 R	LAC* NOD /PIN NUMBER
85		00046	R 723777 A	AAC -1
86		00047	R 652000 A	LMQ
87		00050	R 754000 A	CLL!CLA
88		00051	R 640323 A	DIV /DIVIDE BY THREE
89		00052	R 000003 A	3
90		00053	R 040070 R	DAC ADDR /SAVE REMAINDER
91		00054	R 641002 A	LACQ
92		00055	R 746010 A	CLL!RTL /MULTIPLY BY 4
93		00056	R 723002 A	AAC 2
94		00057	R 340147 R	TAD SCAN
95		00060	R 040147 R	DAC SCAN /WORD CONTAINS PAD TYPES
96		00061	R 740030 A	IAC

PAGE	3	SUBNOD	SRC	SUBNOD
97		00062	R 340070 R	TAD ADDR
98		00063	R 040150 R	DAC TEMP /CONTAINS X AND Y POSITION
99		00064	R 200143 R	LAC JMPAD
100		00065	R 340070 R	TAD ADDR
101		00066	R 040070 R	DAC ADDR /SET UP DISPATCH TABLE JUMP
102		00067	R 220147 R	LAC* SCAN
103		00070	R 740040 A	ADDR XX
104		00071	R 640506 A	LRS 6
105		00072	R 640506 A	LRS 6
106		00073	R 500155 R	AND (?? /UNPACK PAD TYPE
107		00074	R 060156 R	DAC* (17 /SAVE IT
108		00075	R 220150 R	LAC* TEMP
109		00076	R 652000 A	LMQ
110		00077	R 500153 R	AND (???
111		00100	R 040150 R	DAC TEMP /Y POSITION OF PAD
112		00101	R 750000 A	CLA
113		00102	R 640611 A	LLS 11
114		00103	R 040147 R	DAC SCAN /X POSITION OF PAD
115		00104	R 200146 R	LAC ORIENT
116		00105	R 740020 A	RAR
117		00106	R 741400 A	SZL
118		00107	R 600123 R	JMP .+14
119		00110	R 740020 A	RAR /ORIENT=2 IF LINK SET 0 IF NOT
120		00111	R 200150 R	LAC TEMP /XPOS
121		00112	R 741400 A	SZL
122		00113	R 740031 A	TCA /INVERT IF ORIENT=2
123		00114	R 652000 A	LMQ
124		00115	R 200146 R	LAC ORIENT
125		00116	R 742020 A	RTR
126		00117	R 200147 R	LAC SCAN /YPOS
127		00120	R 741400 A	SZL
128		00121	R 740031 A	TCA /INVERT IF ORIENT=2
129		00122	R 600135 R	JMP .+13
130		00123	R 740020 A	RAR /ORIENT=3 IF LINK SET 1 IF NOT
131		00124	R 200147 R	LAC SCAN /XPOS
132		00125	R 741400 A	SZL
133		00126	R 740031 A	TCA /INVERT IF ORIENT=3
134		00127	R 652000 A	LMQ
135		00130	R 200146 R	LAC ORIENT
136		00131	R 742020 A	RTR
137		00132	R 200150 R	LAC TEMP /YPOS
138		00133	R 740400 A	SNL
139		00134	R 740031 A	TCA /INVERT IF ORIENT=1
140		00135	R 360005 R	TAD* X1
141		00136	R 060005 R	DAC* X1
142		00137	R 641002 A	LACQ
143		00140	R 360006 R	TAD* Y1
144		00141	R 060006 R	DAC* Y1
145		00142	R 620002 R	JMP* SUBNOD
146		00143	R 600071 R	JMPAD JMP ADDR+1
147		00144	R 000000 A	COMPAD 0
148		00145	R 000000 A	LIBAD 0

PAGE	4	SUBNOD	SRC	SUBNOD
149		000000	A	.END
	00151	R 000151	E *E	
	00152	R 000016	A *L	
	00153	R 000777	A *L	
	00154	R 001777	A *L	
	00155	R 000077	A *L	
	00156	R 000017	A *L	
		SIZE=00157		NO ERROR LINES

PAGE 5 SUBNOD CROSS REFERENCE

ADDR	00070	90	97	100	101	105	146		
COMPAD	00144	57	64	147*					
COMPS	00000	47*	47	56					
COMPTR	00007	54*	60	62					
JMPAD	00143	99	146*						
LIBAD	00145	59	71	148*					
LIBRY	00001	48*	48	58					
NOD	00010	55*	84*						
ORIENT	00146	75	115	124	135				
SCAN	00147	72	94	95	102	114	126	131	
SUBNOD	00002	45	46	49*	145				
TEMP	00150	66	67	76	77	80	81	98	108
		111	120	137					
X1	00005	52*	79	140	141				
Y1	00006	53*	83	143	144				
.DA	00151	46	50						