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/ THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE
/ CUSTOMER; THE CONTENTS OR DETAILS OF ITS OPERATION MAY ONLY
/ BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO
/ REQUIRE A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT
/ THEIR JOB. DISCLOSURE TO ANY OTHER PERSON MUST HAVE PRIOR
/ AUTHORIZATION FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED
/

/1 SUITE : P.C.B. LAYOUT
/2 PROGRAM TITLE : REDAL23 MARK2
/3 ROUTINE TITLE :
/

/4 AUTHOR :
/5 DATE :
/

/6 PURPOSE :
/

/7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS :
/

/8 I/O DEVICES AND FUNCTIONS :
/

/9 REGISTERS USED :
/

/10 EXTERNAL COMMON AREAS :
/

/11 INTERNAL COMMON AREAS :
/

/12 EXTERNAL GLOBALS :
/

/13 INTERNAL GLOBALS :
/

/14 CONDITIONAL ASSEMBLY PARAMETERS :
/

/15 METHOD :
/

/16 AMENDMENTS :
/

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44      .TITLE INSET
45      /
46      /-----/
47      /
48      / ROUTINE TO SET UP NAMED COMMON ADDRESSES, ARRAY SIZES,
49      / LIGHTBUTTON AND PUSHBUTTON DISPLAYS, ADDRESS OF .DAT
50      / AND VARIOUS OTHER GLOBALS. NOTE AUTOROUTE ASSUMES
51      / ARRAYS IN ORDER COPPER, BOARD, LIBRARY, CONNX, COMPS, ROUTES
52      /
53      /-----/
54      /
55      .GLOBL INSET, .DA, MESS1, X0, Y0, XU, YU, SCALE, STATE, DATAD
56      SIZE .CBD SIZE 1
57      00001 R 000000 A COPPER .CBD COPPER 1
58      00002 R 000000 A BOARD .CBD BOARD 1
59      00003 R 000000 A LIBRY .CBD LIBRY 1
60      00004 R 000000 A CONNX .CBD CONNX 1
61      00005 R 000000 A COMPS .CBD COMPS 1
62      00006 R 000000 A ROUTE .CBD ROUTE 1
63      00007 R 000000 A DF .CBD DF 1
64      00010 R 000000 A LIGHT .CBD LITB 1
65      00011 R 000000 A MESS .CBD PUBS 1
66      00012 R 000000 A NOSLAY .CBD LAYER 1
67      00013 R 740040 A INSET XX
68      00014 R 600027 R JMP .+13
69      00015 R 000000 A SCOPP 0
70      00016 R 000000 A SBORD 0
71      00017 R 000000 A SLIB 0
72      00020 R 000000 A SCONN 0
73      00021 R 000000 A SCOMM 0
74      00022 R 000000 A SROUT 0
75      00023 R 000000 A SDF 0
76      00024 R 000000 A STRK 0
77      00025 R 000000 A SPAD 0
78      00026 R 000000 A SDRL 0
79      00027 R 200245 R LAC (-12 /SET UP ADDRESSES FOR ARRAY SIZES
80      00030 R 040232 R DAC CNT#
81      00031 R 200246 R LAC (SCOPP-1
82      00032 R 060247 R DAC* (11
83      00033 R 200000 R LAC SIZE
84      00034 R 060011 A DAC* 11
85      00035 R 723001 A AAC 1
86      00036 R 440232 R ISZ CNT
87      00037 R 600034 R JMP .-3
88      /
89      00040 R 220250 R LAC* (.SCOM+2
90      00041 R 723001 A AAC 1
91      00042 R 040233 R DAC .XXMON#
92      00043 R 220251 R LAC* (.SCOM+23
93      00044 R 060234 E DAC* DATAD / ADDRESS OF .DAT
94      /
95      /-----/

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96 /
97 /      DOS 32K VERSION
98 /
99 /-----
100 /
101 .IFDEF D32K
102 .DEC
103 00045 R 200252 R LAC (150
104 00046 R 060015 R DAC* SCOPP / COPPER ARRAY SIZE
105 00047 R 200253 R LAC (50
106 00050 R 060016 R DAC* SBORD / BOARD ARRAY SIZE
107 00051 R 200254 R LAC (511
108 00052 R 060017 R DAC* SLIB / LIBRARY ARRAY SIZE
109 00053 R 200255 R LAC (5380
110 00054 R 060020 R DAC* SCONN / CONNECTIONS ARRAY SIZE
111 00055 R 200256 R LAC (2400
112 00056 R 060021 R DAC* SCOMM / COMPONENTS ARRAY SIZE
113 00057 R 200257 R LAC (5700
114 00060 R 060022 R DAC* SROUT / ROUTES ARRAY SIZE
115 00061 R 200260 R LAC (4360
116 00062 R 060023 R DAC* SDF / DISPLAY FILE SIZE (MINUS 40 WRDS FOR MAINFILE)
117 00063 R 200261 R LAC (18
118 00064 R 060024 R DAC* STRK / TRACK ASSIGNMENT TABLE SIZE
119 00065 R 200262 R LAC (64
120 00066 R 060025 R DAC* SPAD / PAD ASSIGNMENT TABLE SIZE
121 00067 R 200263 R LAC (32
122 00070 R 060026 R DAC* SDRL / DRILL ASSIGNMENT TABLE SIZE
123 00071 R 200264 R LAC (15
124 00072 R 060012 R DAC* NOSLAY / DEFAULT NO OF LAYERS
125 00073 R 200233 R LAC .XXMON
126 00074 R 060001 R DAC* COPPER / SET UP ARRAY ADDRESSES
127 00075 R 360015 R TAD* SCOPP / IN NAMED COMMON BLOCKS
128 00076 R 060002 R DAC* BOARD
129 00077 R 360016 R TAD* SBORD
130 00100 R 060003 R DAC* LIBRY
131 00101 R 360017 R TAD* SLIB
132 00102 R 060004 R DAC* CONNX
133 00103 R 360020 R TAD* SCONN
134 00104 R 060007 R DAC* DF
135 00105 R 360023 R TAD* SDF
136 00106 R 723050 A AAC 40 / ALLOW FOR MAINFILE
137 00107 R 060005 R DAC* COMPS
138 00110 R 360021 R TAD* SCOMM
139 00111 R 060006 R DAC* ROUTE
140 00112 R 360022 R TAD* SROUT
141 00113 R 040231 R DAC DSEND
142 .OCT
143 .ENDC
144 /
145 /-----
146 /
147 /      DOS 44K VERSION

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148 /
149 /-----
150 /
151 .IFDEF D44K
152 .DEC
153 LAC (150
154 DAC* SCOPP / COPPER ARRAY SIZE
155 LAC (50
156 DAC* SBORD / BOARD ARRAY SIZE
157 LAC (511
158 DAC* SLIB / LIBRARY ARRAY SIZE
159 LAC (9150
160 DAC* SCONN / CONNECTIONS ARRAY SIZE
161 LAC (2400
162 DAC* SCOMM / COMPONENTS ARRAY SIZE
163 LAC (16384
164 DAC* SROUT / ROUTES ARRAY SIZE
165 LAC (6260
166 DAC* SDF / DISPLAY FILE SIZE ( MINUS 40 WRDS FOR MAINFILE)
167 LAC (18
168 DAC* STRK / TRACK ASSIGNMENT TABLE SIZE
169 LAC (64
170 DAC* SPAD / PAD ASSIGNMENT TABLE SIZE
171 LAC (32
172 DAC* SDRL / DRILL ASSIGNMENT TABLE SIZE
173 LAC (15
174 DAC* NOSLAY / DEFAULT NO OF LAYERS
175 LAC .XXMON
176 DAC* COPPER / SET UP ARRAY ADDRESSES
177 TAD* SCOPP / IN NAMED COMMON BLOCKS
178 DAC* BOARD
179 TAD* SBORD
180 DAC* LIBRY
181 TAD* SLIB
182 DAC* CONNX
183 TAD* SCONN
184 DAC* COMPS
185 TAD* SCOMM
186 DAC* DF
187 TAD* SDF
188 AAC 40 / ALLOW FOR MAINFILE
189 DAC DSEND
190 .OCT
191 LAC (100000
192 DAC* ROUTE
193 .ENDC
194 /
195 /TEST TO SEE IF ENOUGH DATA SPACE
196 /
197 /
198 00114 R 220265 R LAC* (.SCOM+3
199 00115 R 740031 A TCA

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PAGE	5	INSET	SRC	INSET
200		00116	R 340231 R	TAD DSEND
201		00117	R 741100 A	SPA
202		00120	R 600127 R	JMP SETBUT
203				.WRITE -3,2,MESSA,34
		00121	R 002775 A *G	CAL+2*1000 -3&777
		00122	R 000011 A *G	11
		00123	R 000211 R *G	MESSA
			*G	.DEC
				-34
204		00124	R 777736 A *G	.WAIT -3
		00125	R 000775 A *G	CAL -3&777
		00126	R 000012 A *G	12
205		00127	R 160010 R	SETBUT DZM* LIGHT
206		00130	R 200266 R	LAC (Y5
207		00131	R 100150 R	JMS IN
208		00132	R 200267 R	LAC (Y10
209		00133	R 100150 R	JMS IN
210		00134	R 200270 R	LAC (Y14
211		00135	R 100150 R	JMS IN
212		00136	R 200011 R	LAC MESS
213		00137	R 500271 R	AND (17777
214		00140	R 340272 R	TAD (620001
215		00141	R 652000 A	LMQ
216		00142	R 200011 R	LAC MESS
217		00143	R 723002 A	AAC 2
218		00144	R 040157 R	DAC SAVE
219		00145	R 641002 A	LACQ
220		00146	R 060157 R	DAC* SAVE
221		00147	R 600200 R	JMP END
222		00150	R 740040 A	IN XX
223		00151	R 040157 R	DAC SAVE
224		00152	R 200010 R	LAC LIGHT
225		00153	R 652000 A	LMQ
226		00154	R 200157 R	LAC SAVE
227		00155	R 120235 E	JMS* MESS1
228		00156	R 620150 R	JMP* IN
229		00157	R 740040 A	SAVE XX
230		00160	R 000620 A	Y5 620
231		00161	R 000016 A	16
232		00162	R 445371 A	.ASCII ?I/O_?
		00163	R 757400 A	
233		00164	R 000430 A	Y10 430
234		00165	R 000021 A	21
235		00166	R 536231 A	.ASCII /WINDOW_
		00167	R 642236 A	
		00170	R 536760 A	
		00171	R 000000 A	
236		00172	R 000170 A	Y14 170
237		00173	R 000025 A	25
238		00174	R 416210 A	.ASCII /CHECK_
		00175	R 541626 A	
		00176	R 574000 A	

PAGE	6	INSET	SRC	INSET
		00177	R 000000 A	
239				/
240				/ NOW SETUP VIEWING WINDOW
241				/
242		00200	R 160241 E	END DZM* X0
243		00201	R 160243 E	DZM* Y0
244		00202	R 200273 R	LAC (1777
245		00203	R 060240 E	DAC* XU
246		00204	R 060242 E	DAC* YU
247				/
248				/ SET BLINK OFF
249				/
250		00205	R 160237 E	DZM* STATE
251		00206	R 200274 R	LAC (1 /INITIALIZE GLOBAL SCALE
252		00207	R 060236 E	DAC* SCALE
253		00210	R 620013 R	JMP* INSET
254			000100 A	.SCOM=100
255		00211	R 002002 A	MESSA 2002; 0
		00212	R 000000 A	
256		00213	R 536032 A	.ASCII /WARNING, INSUFFICIENT DATA SPACE /<15>
		00214	R 247222 A	
		00215	R 472165 A	
		00216	R 420222 A	
		00217	R 472472 A	
		00220	R 543214 A	
		00221	R 446071 A	
		00222	R 142634 A	
		00223	R 521010 A	
		00224	R 440650 A	
		00225	R 405012 A	
		00226	R 350202 A	
		00227	R 416124 A	
		00230	R 006400 A	
257		00231	R 000000 A	DSEND 0
258			000000 A	.END
		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 000242 E	*E
		00243	R 000243 E	*E
		00244	R 000244 E	*E
		00245	R 777766 A	*L
		00246	R 000014 R	*L
		00247	R 000011 A	*L
		00250	R 000102 A	*L
		00251	R 000123 A	*L
		00252	R 000226 A	*L
		00253	R 000062 A	*L
		00254	R 000777 A	*L

PAGE 7 INSET SRC INSET

00255 R 012404 A *L
00256 R 004540 A *L
00257 R 013104 A *L
00260 R 010410 A *L
00261 R 000022 A *L
00262 R 000100 A *L
00263 R 000040 A *L
00264 R 000017 A *L
00265 R 000103 A *L
00266 R 000160 R *L
00267 R 000164 R *L
00270 R 000172 R *L
00271 R 017777 A *L
00272 R 620001 A *L
00273 R 001777 A *L
00274 R 000001 A *L

SIZE=00275 NO ERROR LINES

PAGE	8	INSET	CROSS	REFERENCE		
BOARD	000002	58*	58	128	178	
ENT	00232	80	86			
COMPS	000005	61*	61	137	184	
CONNK	000004	60*	60	132	182	
COPPER	000001	57*	57	126	176	
DATAD	00234	55	93			
DF	000007	63*	63	134	186	
DSEND	00231	141	189	200	257*	
D32K	000000	101				
END	00200	221	242*			
IN	00150	207	209	211	222*	228
INSET	00013	44	55	67*	253	
LIBRY	000003	59*	59	130	180	
LIGHT	00010	64*	205	224		
MESS	00011	65*	212	216		
MESSA	00211	203	255*			
MESS1	00235	55	227			
NOSLAY	00012	66*	124	174		
ROUTE	000006	62*	62	139	192	
SAVE	00157	218	220	223	226	229*
SBORD	00016	70*	106	129	156	179
SCALE	00236	55	252			
SCOMM	00021	73*	112	138	162	185
SCONN	00020	72*	110	133	160	183
SCOPP	00015	69*	81	104	127	154
SDF	00023	75*	116	135	166	187
SDRL	00026	78*	122	172		
SETBUT	00127	202	205*			
SIZE	00000	56*	56	83		
SLIB	00017	71*	108	131	158	181
SPAD	00025	77*	120	170		
SROUT	00022	74*	114	140	164	
STATE	00237	55	250			
STRK	00024	76*	118	168		
XU	00240	55	245			
X0	00241	55	242			
YU	00242	55	246			
Y0	00243	55	243			
Y10	00164	208	233*			
Y14	00172	210	236*			
Y5	00160	206	230*			
.DA	00244	55				
.SCOM	000100	89	92	198	254*	
.XXMON	00233	91	125	175		