

TITLE RL20

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/1 SUITE : PCB LAYOUT
/2 PROGRAM TITLE : REDAL 20
/3 ROUTINE TITLE : RL20

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/ CUSTOMER: THE CONTENTS OR DETAILS OF ITS OPERATION MAY ONLY
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/ FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.

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/4 AUTHOR : D.P.TRBLE
/5 DATE : MARCH 1973

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/6 PURPOSE: TO SET UP COMMON BLOCKS HOLDING ARRAY ADDRESSES
/ DATAIN IS CALLED TO READ IN INITIAL DATA AND ERDETT TO
/ MAKE THE TREE COMPARISON.

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/8 I/O DEVICES AND FUNCTIONS:
/ .DAT4 TT MESSAGES
/ .DAT3 DECTAPE DUMP INPUT

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/10 COMMON AREAS: SIZE,DF,ROUTE,COMPS,CONNX,LIBRY,BOARD,COPPER
/ ERRORS,NAMES,EOERR,EONAME,EORTAD,EOCMAD,EOCNAD,EOLBAD,EOBRAD
/ EOCPAD,LAYER,NEKLEN,NEKWID,DRILAD,PADAD,TRAKAD.

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/12 GLOBALS: SET3,NUMBER,DTIN20,DUMP,ERDETT,NAME3

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JUNE 1975: AMENDMENTS IMPLEMENTED BY MIKE FELLOWS

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- 1) PROGRAM NOW ACCEPTS 1500 2 NODE TREES
- 2) MAXIMUM 300 NODES PER TREE
- 3) CONDITIONAL ASSEMBLY REMOVED

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AMENDED CODING COMMENTED WITH AMDT 1

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ROUTINES AFFECTED: RL20,ERDETT,TREE2,DUMP,SET3
NEW VERSION IS RL20BE AND RUNS IN 32K EVEN FOR 48K DATASET

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FOR FURTHER DETAILS SEE BUG REPORT FILE

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53      .GLOBL SET3,NUMBER,DTIN20,DUMP,ERDETT,NAME3
54      .IODEV 3,4
55      /
56      00000 R 600031 R    JMP START
57      .DEC
58      00001 R 000000 A    SCOPP .CBD SIZE 10
59      00002 R 000000 A    DFILAD .CBD DF 1
60      00003 R 000000 A    ROUTAD .CBD ROUTE 1
61      00004 R 000000 A    COMPAD .CBD COMPS 1
62      00005 R 000000 A    CONNAD .CBD CONNX 1
63      00006 R 000000 A    LIBAD .CBD LIBRY 1
64      00007 R 000000 A    BORDAD .CBD BOARD 1
65      00010 R 000000 A    COPPAD .CBD COPPER 1
66      00011 R 000000 A    ERRORS .CBD ERRORS 1
67      00012 R 000000 A    NAMES .CBD NAMES 1
68      00013 R 000000 A    EONAME .CBD EONAME 1
69      00014 R 000000 A    EOERR .CBD EOERR 1
70      00015 R 000000 A    EOROUT .CBD EORTAD 1
71      00016 R 000000 A    EOCOMP .CBD EOCMAD 1
72      00017 R 000000 A    EOCOMN .CBD EOCNAD 1
73      00020 R 000000 A    EOLIB .CBD EOLBAD 1
74      00021 R 000000 A    EOBRD .CBD EOBRAD 1
75      00022 R 000000 A    EOCOPP .CBD EOCPAD 1
76      00023 R 000000 A    NOSLAY .CBD LAYER 1
77      00024 R 000000 A    NEKLEN .CBD NEKLEN 7
78      00025 R 000000 A    NEKWID .CBD NEKWID 7
79      00026 R 000000 A    DRILL .CBD DRILAD 32
80      00027 R 000000 A    PADS .CBD PADAD 64
81      00030 R 000000 A    TRAKS .CBD TRAKAD 18
82      .OCT
83      00031 R 120260 E    START JMS* SET3
84      .DEC
85      00032 R 220002 R    LAC* DFILAD
86      00033 R 040136 R    DAC DF1
87      /
88      /      AMDT 1: BOTH SETS OF TREES NOW BUILT ON SAME START ADDRESS
89      /
90      00034 R 040137 R    DAC DF2
91      .OCT
92      .INIT 4.1,START
          CAL+1*1000 4&777
          1
          START+0
          0
93      00041 R 002004 A *G    LOOP .WRITE 4.2,MESSA,34
          CAL+2*1000 4&777
          11
          MESSA
          *G
          .DEC
          -34
94      00044 R 777736 A *G    .WAIT 4
          00045 R 000004 A *G    CAL 4&777

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PAGE	3	RL20	SRC	RL20
		00046	R 000012 A *G	12
95		00047	R 120257 E	JMS* NUMBER
96		00050	R 040251 R	DAC FLAG*
97		00051	R 723775 A	AAC -3
98		00052	R 741200 A	SNA
99		00053	R 600104 R	JMP DMPDTA
100				.WRITE 4,2,MESSB,34
		00054	R 002004 A *G	CAL+2*1000 4&777
		00055	R 000011 A *G	11
		00056	R 000177 R *G	MESSB
			*G	.DEC
			*G	-34
101		00057	R 777736 A *G	.WAIT 4
		00060	R 000004 A *G	CAL 4&777
		00061	R 000012 A *G	12
102		00062	R 120257 E	JMS* NUMBER
103		00063	R 040252 R	DAC MODE*
104		00064	R 750030 A	SETPTR CLAIAC
105		00065	R 060020 R	DAC* EOLIB
106		00066	R 060016 R	DAC* EOCOMP
107		00067	R 060017 R	DAC* EOCONN
108		00070	R 060021 R	DAC* EOBRD
109		00071	R 060015 R	DAC* EOROUT
110		00072	R 060013 R	DAC* EONAME
111		00073	R 060014 R	DAC* EOERR
112		00074	R 200251 R	LAC FLAG
113		00075	R 723004 A	AAC 4
114		00076	R 040251 R	DAC FLAG
115		00077	R 120253 E	JMS* DTIN20
116		00100	R 600123 R	JMP COMP
117		00101	R 000000 A	EOCON .CBD EOCNAD 1
118		00102	R 000251 R	.DSA FLAG
119		00103	R 000252 R	.DSA MODE
120		00104	R 120256 E	DMPDTA JMS* NAME3
121		00105	R 600110 R	JMP .+3
122		00106	R 000245 R	.DSA NAM
123		00107	R 000261 R	.DSA (0
124				.INIT 3,0,START
		00110	R 000003 A *G	CAL+0*1000 3&777
		00111	R 000001 A *G	1
		00112	R 000031 R *G	START+0
		00113	R 000000 A *G	0
125				.SEEK 3,NAM
		00114	R 000003 A *G	CAL 3&777
		00115	R 000003 A *G	3
		00116	R 000245 R *G	NAM
126		00117	R 120254 E	JMS* DUMP
127		00120	R 600123 R	JMP .+1+2
128		00121	R 000262 R	.DSA (3
129		00122	R 000263 R	.DSA (1
130		00123	R	COMP .WRITE 4,2,MESSD,34
		00123	R 002004 A *G	CAL+2*1000 4&777

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00124 R 000011 A *G      11
00125 R 000215 R *G      MESSD
                        *G      .DEC
00126 R 777736 A *G      -34
131      .WAIT 4
00127 R 000004 A *G      CAL 4&777
00130 R 000012 A *G      12
132      JMS* NUMBER
133      AAC 4
134      DAC CDEV*
135      JMS* ERDETT
136      JMP LOOP
137      DF1      0
138      DF2      0
139      .DSA CDEV
140      MESSA 2002: 0; .ASCII /MASTER DATA, TYPE 1 FOR PT. 2 FOR INITIA/
00142 R 000000 A
00143 R 466032 A
00144 R 352212 A
00145 R 511010 A
00146 R 440650 A
00147 R 405304 A
00150 R 052262 A
00151 R 502124 A
00152 R 030500 A
00153 R 432372 A
00154 R 220240 A
00155 R 521344 A
00156 R 031100 A
00157 R 432372 A
00160 R 220222 A
00161 R 472232 A
00162 R 444602 A
141      .ASCII /L DECTAPE, 3 FOR DECTAPE DUMP/<15>
00163 R 461010 A
00164 R 442606 A
00165 R 522032 A
00166 R 042530 A
00167 R 201464 A
00170 R 043236 A
00171 R 511010 A
00172 R 442606 A
00173 R 522032 A
00174 R 042500 A
00175 R 422531 A
00176 R 550032 A
142      MESSB 2002: 0; .ASCII /TYPE 1 FOR CONNS ONLY ELSE 2/<15>
00177 R 002002 A
00200 R 000000 A
00201 R 522632 A
00202 R 042500 A
00203 R 305010 A
00204 R 647644 A
00205 R 202071 A

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00206 R 747234 A
00207 R 515011 A
00210 R 747230 A
00211 R 545010 A
00212 R 546246 A
00213 R 425006 A
00214 R 206400 A
143 00215 R 002002 A MESSD 2002: 0
00216 R 000000 A
144 00217 R 416210 A .ASCII /CHECKING DATA, TYPE 1 FOR PT. 2 FOR INITIAL DECTAPE/<15>
00220 R 541626 A
00221 R 446350 A
00222 R 720210 A
00223 R 406510 A
00224 R 126100 A
00225 R 522632 A
00226 R 042500 A
00227 R 305010 A
00230 R 647644 A
00231 R 202412 A
00232 R 427100 A
00233 R 311010 A
00234 R 647644 A
00235 R 202231 A
00236 R 644650 A
00237 R 446031 A
00240 R 420210 A
00241 R 426072 A
00242 R 440640 A
00243 R 424320 A
00244 R 000000 A
145 00245 R 000010 A NAM 10: 0: 0
00246 R 000000 A
00247 R 000000 A
146 000000 A .END
00253 R 000253 E *E
00254 R 000254 E *E
00255 R 000255 E *E
00256 R 000256 E *E
00257 R 000257 E *E
00260 R 000260 E *E
00261 R 000000 A *L
00262 R 000003 A *L
00263 R 000001 A *L
      SIZE=00264      NO ERROR LINES

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BORDAD	00007	64*			
CDEV	00250	134	139		
COMP	00123	116	130*		
COMPAD	00004	61*			
CONNAD	00005	62*			
COPPAD	00010	65*			
DFILAD	00002	59*	85		
DF1	00136	86	137*		
DF2	00137	90	138*		
DMPDTA	00104	99	120*		
DRILL	00026	79*			
DTIN20	00253	53	115		
DUMP	00254	53	126		
EOBRD	00021	74*	108		
EOCOMP	00016	71*	106		
EOCON	00101	117*			
EOCONN	00017	72*	107		
EOCOPP	00022	75*			
EOERR	00014	69*	69	111	
EOLIB	00020	73*	105		
EONAME	00013	68*	68	110	
EOROUT	00015	70*	109		
ERDETT	00255	53	135		
ERRORS	00011	66*	66		
FLAG	00251	96	112	114	118
LIBAD	00006	63*			
LOOP	00041	93*	136		
MESSA	00141	93	140*		
MESSB	00177	100	142*		
MESSD	00215	130	143*		
MODE	00252	103	119		
NAM	00245	122	125	145*	
NAMES	00012	67*	67		
NAME3	00256	53	120		
NEKLEN	00024	77*	77		
NEKWID	00025	78*	78		
NOSLAY	00023	76*			
NUMBER	00257	53	95	102	132
PADS	00027	80*			
ROUTAD	00003	60*			
SCOPP	00001	58*			
SETPTR	00064	104*			
SET3	00260	53	83		
START	00031	56	83*	92	124
TRAKS	00030	81*			