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/ REDAC SOFTWARE LIMITED
/
/1 SUITE : P.C.B. SUITE
/2 PROGRAM TITLE :
/3 ROUTINE TITLE : DUMP
/
/ 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 THE PRIOR AUTHORISATION
/ FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.
/
/
/4 AUTHOR: K. FOSTER
/5 DATE : DEC 1974
/
/6 PURPOSE: READ OR WRITE P.C.B. DUMP TO DISC/DECTAPE/PAPER TAPE.
/ ASSUMES .INIT AND .SEEK/.ENTER DONE BEFORE ENTRY.
/ SPECIAL ACTIONS:-
/ 1) READ REDAL3 DUMP INTO REDAL14 - RELOCATES ROUTES ON TWO
/ USER DEFINED LAYERS.
/ 2) READ REDAL14 DUMP INTO REDAL3 OR REDAL10 - GIVES ERROR IF
/ NO OF LAYERS IN DUMP IS GREATER THAN 2.
/ 3) READ OF ERRORS AND COMP. NAMES POSITIONS ARRAYS IS INHIBITED
/ FOR ALL PROGRAMS EXCEPT REDAL3 MK5.
/
/7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS
/
/ DO NECESSARY .INIT,.SEEK AND/OR .ENTER ON DAT SLOT
/ CALL DUMP(DAT,DIR)
/ DAT DAT SLOT
/ DIR 1 FOR INPUT
/ 0 FOR OUTPUT
/
/8 DAT SLOTS AND FUNCTIONS: -3 ERROR MESSAGES
/
/9 REGISTERS USED: MQ,XR,LR,A.I.R. 10.
/
/10 LOCAL GLOBALS
/ .GLOBL DUMP,.DA,BINIOP
/
/11 EXTERNAL GLOBALS
/ .GLOBL NUMBER
/
/
/13 COMMON AREAS:
/ TRAKAD,PADAD,DRILAD,LAYER,NEKWID,NEKLEN
/ COPPER,BOARD,LIBRY,CONNX,COMPS,ROUTE,ERRORS,NAMES
/ EOCPAD,EOBRAD,EOLBAD,EOCNAD,EOCMAD,EORTAD,EOERR,EONAME

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JUNE 1975: AMDT1 - CONDITIONAL ASSEMBLY REMOVED.
- SEE RL20 MAINLINE FOR FURTHER DETAILS

00000	R	000000	A	TRAKAD	.CBD	TRAKAD	1
00001	R	000000	A	PADAD	.CBD	PADAD	1
00002	R	000000	A	DRILAD	.CBD	DRILAD	1
00003	R	000000	A	NEKWID	.CBD	NEKWID	1
00004	R	000000	A	NEKLEN	.CBD	NEKLEN	1
00005	R	000000	A	LITBUT	.CBD	LITBUT	1
00006	R	000000	A	ROUTE	.CBD	ROUTE	1
00007	R	000000	A	LAYER	.CBD	LAYER	1

.EJECT

68	00010	R	000000	A	DUMP	0		
69	00011	R	120145	E		JMS*	.DA	
70	00012	R	600015	R		JMP	+.1+2	
71	00013	R	000000	A	DAT			
72	00014	R	000000	A	DIR			
73	00015	R	100106	R	BLOKDN	JMS	BIN2	/HEADER BLOCK
74	00016	R	000140	R		.DSA	HEADAD	
75	00017	R	000146	R		.DSA	(3	
76	00020	R	100106	R		JMS	BIN2	/TRACKS ASSIGNMENTS
77	00021	R	000000	R		.DSA	TRAKAD	
78	00022	R	000147	R		.DSA	(22	
79	00023	R	100106	R		JMS	BIN2	/PAD ASSIGNMENTS
80	00024	R	000001	R		.DSA	PADAD	
81	00025	R	000150	R		.DSA	(100	
82	00026	R	100106	R		JMS	BIN2	/DRILL ASSIGNMENTS
83	00027	R	000002	R		.DSA	DRILAD	
84	00030	R	000151	R		.DSA	(40	
85	00031	R	100106	R		JMS	BIN2	/NECK WIDTH ASSIGNMENTS
86	00032	R	000003	R		.DSA	NEKWID	
87	00033	R	000152	R		.DSA	(7	
88	00034	R	100106	R		JMS	BIN2	/MIN NECK UP LENGTH ASSIGNMENTS
89	00035	R	000004	R		.DSA	NEKLEN	
90	00036	R	000152	R		.DSA	(7	
91	00037	R	100124	R		JMS	BIN1	/NO OF LAYERS
92	00040	R	000000	A		.CBD	LAYER	1
93	00041	R	100124	R		JMS	BIN1	/COPPER LENGTH
94	00042	R	000000	A	EOCPAD	.CBD	EOCPAD	1
95	00043	R	100124	R		JMS	BIN1	/BOARD LENGTH
96	00044	R	000000	A	EOBRAD	.CBD	EOBRAD	1
97	00045	R	100124	R		JMS	BIN1	/LIB. LENGTH
98	00046	R	000000	A	EOLBAD	.CBD	EOLBAD	1
99	00047	R	100124	R		JMS	BIN1	/CONNS. LENGTH
100	00050	R	000000	A	EOCNAD	.CBD	EOCNAD	1
101	00051	R	100124	R		JMS	BIN1	/COMPS. LENGTH
102	00052	R	000000	A	EOCMAD	.CBD	EOCMAD	1
103	00053	R	100124	R		JMS	BIN1	/ROUTE LENGTH
104	00054	R	000000	A	EORTAD	.CBD	EORTAD	1
105	00055	R	100124	R		JMS	BIN1	/ERRORS LENGTH
106	00056	R	000000	A	EOERR	.CBD	EOERR	1
107	00057	R	100124	R		JMS	BIN1	/NAME LENGTH
108	00060	R	000000	A	EONAME	.CBD	EONAME	1
109						.EJECT		

PAGE	4	DUMP	SRC					
110		00061	R 100106	R	REMAIN	JMS	BIN2	/COPPER
111		00062	R 000000	A		.CBD	COPPER	1
112		00063	R 000000	A		.CBD	EOCPAD	1
113		00064	R 100106	R		JMS	BIN2	/BOARD
114		00065	R 000000	A		.CBD	BOARD	1
115		00066	R 000000	A		.CBD	EOBRAD	1
116		00067	R 100106	R		JMS	BIN2	/LIBRARY
117		00070	R 000000	A		.CBD	LIBRY	1
118		00071	R 000000	A		.CBD	EOLBAD	1
119		00072	R 100106	R		JMS	BIN2	/CONNS.
120		00073	R 000000	A		.CBD	CONNX	1
121		00074	R 000000	A		.CBD	EOCNAD	1
122		00075	R 100106	R		JMS	BIN2	/COMPS
123		00076	R 000000	A		.CBD	COMPS	1
124		00077	R 000000	A		.CBD	EOCMAD	1
125		00100	R 220013	R	DONE	LAC*	DAT	
126		00101	R 500153	R		AND	(???)	
127		00102	R 040103	R		DAC	CLS	
128		00103	R		CLS	.CLOSE	0	
		00103	R 000000	A *G		CAL	0&7??	
		00104	R 000006	A *G		6		
129						.EJECT		

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130 00105 R 62010 R DUMP JMP* DUMP
131 /
132 /
133 /
134 /
135 / ROUTINE TO CALL BINIOP.
136 / CALL IS: JMS BIN2
137 / ADDRESS OF ADDRESS OF AREA TO BE OUTPUT
138 / ADDRESS OF LENGTH OF AREA TO BE OUTPUT
139 /
140 00106 R 000000 A BIN2 0
141 00107 R 220106 R LAC* BIN2
142 00110 R 040116 R DAC PARAM1
143 00111 R 440106 R ISZ BIN2
144 00112 R 220106 R LAC* BIN2
145 00113 R 040117 R DAC PARAM2
146 00114 R 120143 E JMS* BINIOP
147 00115 R 600122 R JMP .+1+4
148 00116 R 000000 A PARAM1
149 00117 R 000000 A PARAM2
150 00120 R 400013 R .DSA DAT!400000
151 00121 R 400014 R .DSA DIR!400000
152 00122 R 440106 R ISZ BIN2
153 00123 R 620106 R JMP* BIN2
154 /
155 / ROUTINE TO CALL BINIOP
156 / CALL IS: JMS BIN1
157 / ADDRESS OF SINGLE WORD TO BE OUTPUT
158 /
159 00124 R 000000 A BIN1 0
160 00125 R 120143 E JMS* BINIOP
161 00126 R 600133 R JMP .+1+4
162 00127 R 400124 R .DSA BIN1!400000
163 00130 R 000154 R .DSA (1
164 00131 R 400013 R .DSA DAT!400000
165 00132 R 400014 R .DSA DIR!400000
166 00133 R 440124 R ISZ BIN1
167 00134 R 620124 R JMP* BIN1
168 /
169 /
170 /
171 00135 R A HEAD .BLOCK 3 /HEADER BLOCK - PROGRAM NO/MARKNO
172 / DATE
173 / ELAPSED TIME
174 00140 R 000135 R HEADAD .DSA HEAD /ADDRESS OF HEADER BLOCK
175 000100 A .SCOM=100
176 00141 R 000000 A LAYER1 0
177 00142 R 000000 A 0
178 000000 A .END
00143 R 000143 E *E
00144 R 000144 E *E
00145 R 000145 E *E

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00146 R 000003 A *L
00147 R 000022 A *L
00150 R 000100 A *L
00151 R 000040 A *L
00152 R 000007 A *L
00153 R 000777 A *L
00154 R 000001 A *L

SIZE=00155 NO ERROR LINES

BINIOP	00143	42	146	160					
BINI1	00124	91	93	95	97	99	101	103	105
		107	159*	162	166	167			
BIN2	00106	73	76	79	82	85	88	110	113
		116	119	122	140*	141	143	144	152
		153							
BLOKDN	00015	73*							
CLS	00103	127	128*						
DAT	00013	71*	125	150	164				
DEXIT	00105	130*							
DIR	00014	72*	151	165					
DONE	00100	125*							
DRILAD	00002	61*	61	83					
DUMP	00010	42	68*	130					
EOBRAD	00044	96*	96	115					
EOCMAD	00052	102*	102	124					
EOCNAD	00050	100*	100	121					
EOCPAD	00042	94*	94	112					
EOERR	00056	106*	106						
EOLBAD	00046	98*	98	118					
EONAME	00060	108*	108						
EORTAD	00054	104*	104						
HEAD	00135	171*	174						
HEADAD	00140	74	174*						
LAYER	00007	66*	66	92					
LAYER1	00141	176*							
LITBUT	00005	64*	64						
NEKLEN	00004	63*	63	89					
NEKWID	00003	62*	62	86					
NUMBER	00144	45							
PADAD	00001	60*	60	80					
PARAM1	00116	142	148*						
PARAM2	00117	145	149*						
REMAIN	00061	110*							
ROUTE	00006	65*	65						
TRAKAD	00000	59*	59	77					
.DA	00145	42	69						
SCOM	000100	175*							