

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43

```

-----
/
/
/
/
/
/ 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 :
/

```

```

45      .GLOBAL HIH02, ASS2, DUMP, DIRECT, NAME, MESS1, BUTTON
46      00000 R 000000 A TRAKS .CBD TRAKAD 1
47      00001 R 000000 A PADS .CBD PADMAD 1
48      00002 R 000000 A EOCOMP .CBD EOCMAD 1
49      00003 R 000000 A EOCENN .CBD EOCNAD 1
50      00004 R 000000 A EOLIB .CBD EOLBAD 1
51      00005 R 000000 A EOROUT .CBD EORTAD 1
52      /
53      /-----/
54      /
55      / ROUTINE TO READ AND WRITE DECTAPE DUMPS
56      /
57      / NOTE THIS ROUTINE ASSUMES THAT TRAKS, PADS, DRILL
58      / NOSLAY, EOCOPP, EOBDR, EOLIB, EOCENN, EOCOMP AND EOROUT
59      / OCCUPY CONSECUTIVE LOCATIONS IN CORE
60      /
61      / CREATED 22.2.73 BY D.P.TREBLE
62      /
63      /-----/
64      /
65      00006 R 740040 A HIH02 XX
66      00007 R 200754 R ASK LAC (10
67      00010 R 040334 R DAC NAME1
68      00011 R 120753 E JMS* NAME
69      00012 R 741000 A SKP
70      00013 R 000334 R .DSA NAME1
71      /
72      / CONVERT 5/7 ASCII NAME TO SIXBIT
73      /
74      00014 R 200334 R LAC NAME1
75      00015 R 652000 A LMQ
76      00016 R 640610 A LLS 10
77      00017 R 740020 A RAR
78      00020 R 640607 A LLS 7
79      00021 R 740020 A RAR
80      00022 R 640603 A LLS 3
81      00023 R 040745 R DAC STOR#
82      00024 R 200335 R LAC NAME1+1
83      00025 R 652000 A LMQ
84      00026 R 200745 R LAC STOR
85      00027 R 640603 A LLS 3
86      00030 R 040334 R DAC NAME1 /1ST 3 CHARS IN SIXBIT
87      00031 R 640610 A LLS 10
88      00032 R 740020 A RAR
89      00033 R 640606 A LLS 6
90      00034 R 040745 R DAC STOR
91      00035 R 200336 R LAC NAME1+2
92      00036 R 652000 A LMQ
93      00037 R 200745 R LAC STOR
94      00040 R 640601 A LLS 1
95      00041 R 740020 A RAR

```

PAGE	3	HIH02	SRC	HIH02
96		00042	R 640606 A	LLS 6
97		00043	R 040335 R	DAC NAME1+1 /2ND 3 CHARS IN SIXBT
98		00044	R 640610 A	LLS 10
99		00045	R 740020 A	RAR
100		00046	R 640603 A	LLS 3
101		00047	R 040745 R	DAC STOR
102		00050	R 200337 R	LAC NAME1+3
103		00051	R 652000 A	LMQ
104		00052	R 200745 R	LAC STOR
105		00053	R 640604 A	LLS 4
106		00054	R 740020 A	RAR
107		00055	R 640606 A	LLS 6
108		00056	R 040336 R	DAC NAME1+2 /3RD 3 CHARS IN SIXBT
109		00057	R 777775 A	LAW -3
110		00060	R 040740 R	DAC CNT#
111		00061	R 200755 R	LAC (NAME1
112		00062	R 040744 R	DAC PTR#
113		00063	R 220744 R	LOOP LAC* PTR
114		00064	R 500756 R	AND (770000
115		00065	R 540757 R	SAD (400000
116		00066	R 600103 R	JMP RP1
117		00067	R 220744 R	NXT1 LAC* PTR
118		00070	R 500760 R	AND (7700
119		00071	R 540761 R	SAD (4000
120		00072	R 600107 R	JMP RP2
121		00073	R 220744 R	NXT2 LAC* PTR
122		00074	R 500762 R	AND (77
123		00075	R 540763 R	SAD (40
124		00076	R 600113 R	JMP RP3
125		00077	R 440744 R	NXT3 ISZ PTR
126		00100	R 440740 R	ISZ CNT
127		00101	R 600063 R	JMP LOOP
128		00102	R 600117 R	JMP ASS
129		00103	R 220744 R	RP1 LAC* PTR
130		00104	R 500764 R	AND (7777
131		00105	R 060744 R	DAC* PTR
132		00106	R 600067 R	JMP NXT1
133		00107	R 220744 R	RP2 LAC* PTR
134		00110	R 500765 R	AND (770077
135		00111	R 060744 R	DAC* PTR
136		00112	R 600073 R	JMP NXT2
137		00113	R 220744 R	RP3 LAC* PTR
138		00114	R 500766 R	AND (777700
139		00115	R 060744 R	DAC* PTR
140		00116	R 600077 R	JMP NXT3
141				/
142				/ SET UP FOR READ /WRITE
143				/
144		00117	R 120746 E	ASS JMS* ASS2
145				.INIT 3,0,HIH02+1
		00120	R 000003 A *G	CAL+0*1000 3&777
		00121	R 000001 A *G	1

```

00122 R 000007 R *G      HIHO2-1+0
00123 R 000000 A *G      0
146      .FSTAT 3.NAME1
00124 R 003003 A *G      CAL+3000 3&777
00125 R 000002 A *G      2
00126 R 000334 R *G      NAME1
147      00127 R 040743 R      DAC N1#
148      00130 R 220004 R      LAC* EOLIB
149      00131 R 540767 R      SAD (1
150      00132 R 600151 R      JMP READ
151      00133 R 200743 R      LAC N1
152      00134 R 741200 A      SNA
153      00135 R 600171 R      JMP CHKDIR /FILE NOT FOUND
154      00136 R 160001 R      DZM* PUSB
155      00137 R 200001 R      LAC PUSB
156      00140 R 652000 A      LMQ
157      00141 R 200770 R      LAC (O/RWRT
158      00142 R 120752 E      JMS* MESS1 /DISPLAY OVERWRITE RENAME
159      00143 R 120747 E      WAIT JMS* BUTTON
160      00144 R 540767 R      SAD (1
161      00145 R 600171 R      JMP CHKDIR
162      00146 R 540771 R      SAD (6
163      00147 R 600007 R      JMP ASK
164      00150 R 600143 R      JMP WAIT
165      00151 R 200743 R      READ LAC N1
166      00152 R 740200 A      SZA
167      00153 R 600163 R      JMP SEEK /FILE FOUND GO READ FROM IT
168      00154 R 160001 R      DZM* PUSB
169      00155 R 200001 R      LAC PUSB
170      00156 R 652000 A      LMQ
171      00157 R 200772 R      LAC (FILABS
172      00160 R 120752 E      JMS* MESS1 /DISPLAY FILE ABSENT
173      00161 R 120747 E      JMS* BUTTON /WAIT FOR BUTTON
174      00162 R 600007 R      JMP ASK
175      00163 R      SEEK .SEEK 3.NAME1
00163 R 000003 A *G      CAL 3&777
00164 R 000003 A *G      3
00165 R 000334 R *G      NAME1
176      00166 R 750030 A      CLA!IAC
177      00167 R 040742 R      DAC MODE# /SET TO READ
178      00170 R 100234 R      JMS TRANFR
179      00171 R 120750 E      CHKDIR JMS* DIRECT
180      00172 R 600176 R      JMP .+4
181      00173 R 000773 R      .DSA (3
182      00174 R 000741 R      .DSA ISP
183      00175 R 000340 R      .DSA BUFF
184      00176 R 200741 R      LAC ISP#
185      00177 R 741200 A      SNA
186      00200 R 600241 R      JMP FULTPE
187      00201 R 220004 R      LAC* EOLIB
188      00202 R 360003 R      TAD* EOCONN
189      00203 R 360002 R      TAD* EOCOMP

```

PAGE	5	HIHO2	SRC	HIHO2	
190		00204	R 360005	R	TAD* EOROUT
191					.DEC
192		00205	R 340774	R	TAD (347
193		00206	R 744000	A	CLL
194		00207	R 652000	A	LMQ
195		00210	R 750000	A	CLA
196		00211	R 644323	A	DIVS
197		00212	R 000400	A	256
198		00213	R 641002	A	LACQ
199		00214	R 340767	R	TAD (1
200		00215	R 740031	A	TCA
201		00216	R 340741	R	TAD ISP
202		00217	R 741100	A	SPA
203		00220	R 600241	R	JMP FULTPE
204					.OCT
205					.CLOSE 3
		00221	R 000003	A *G	CAL 3&777
		00222	R 000006	A *G	6
206					.INIT 3,1,HIHO2+1
		00223	R 001003	A *G	CAL+1*1000 3&777
		00224	R 000001	A *G	1
		00225	R 000007	R *G	HIHO2+1+0
		00226	R 000000	A *G	0
207					.ENTER 3,NAME1
		00227	R 000003	A *G	+CAL*1000 3&777
		00230	R 000004	A *G	4
		00231	R 000334	R *G	NAME1
208		00232	R 140742	R	DZM MODE /SET TO WRITE
209		00233	R 100234	R	JMS TRANFR
210					/
211					/ ROUTINE TO MAKE TRANSFER
212					/
213		00234	R 740040	A	TRANFR XX
214		00235	R 120751	E	JMS* DUMP
215		00236	R 620006	R	JMP* HIHO2
216		00237	R 000773	R	.DSA (3
217		00240	R 000742	R	.DSA MODE
218					/
219					/
220					/
221		00241	R 160001	R	FULTPE DZM* PUSH
222		00242	R 200001	R	LAC PUSH
223		00243	R 652000	A	LMQ
224		00244	R 200775	R	LAC (DECTP /DISPLAY DECTAPE FULL
225		00245	R 120752	E	JMS* MESS1
226		00246	R 120747	E	JMS* BUTTON
227		00247	R 600171	R	JMP CHKDIR
228					/
229					/
230		00250	R 001750	A	DECTP 1750; 0
		00251	R 000000	A	
231		00252	R 202110	A	.ASCII / DECTAPE FULL, MOUNT ANOTHER, BUTTON TO, RESTART_/

00253 R 541650 A
 00254 R 406410 A
 00255 R 520214 A
 00256 R 526311 A
 00257 R 426100 A
 00260 R 466372 A
 00261 R 547250 A
 00262 R 202031 A
 00263 R 647650 A
 00264 R 442132 A
 00265 R 226100 A
 00266 R 412532 A
 00267 R 452236 A
 00270 R 471012 A
 00271 R 447530 A
 00272 R 202450 A
 00273 R 551650 A
 00274 R 406452 A
 00275 R 457400 A
 00276 R 001750 A
 00277 R 000000 A
 00300 R 202151 A
 00301 R 146212 A
 00302 R 202030 A
 00303 R 251612 A
 00304 R 472513 A
 00305 R 700000 A
 00306 R 001750 A
 00307 R 000000 A
 00310 R 202270 A
 00311 R 554500 A
 00312 R 202372 A
 00313 R 026100 A
 00314 R 305004 A
 00315 R 047654 A
 00316 R 426452 A
 00317 R 751222 A
 00320 R 522125 A
 00321 R 420144 A
 00322 R 261006 A
 00323 R 326100 A
 00324 R 321304 A
 00325 R 032530 A
 00326 R 201544 A
 00327 R 020244 A
 00330 R 426350 A
 00331 R 146612 A
 00332 R 574000 A
 00333 R 000000 A

FILABS 1750: 0

.ASCII / FILE ABSENT_

OVERWRT 1750: 0

.ASCII / KEY OP, 1 OVERWRITE, 2, 3, 4, 5, 6 RENAME_

.DEC
 NAME1 .BLOCK 4
 BUFF .BLOCK 256

232

233

234

235

236

237

238

00334 R A
 00340 R A

239

000000 A .END
00746 R 000746 E *E
00747 R 000747 E *E
00750 R 000750 E *E
00751 R 000751 E *E
00752 R 000752 E *E
00753 R 000753 E *E
00754 R 000010 A *L
00755 R 000334 R *L
00756 R 770000 A *L
00757 R 400000 A *L
00760 R 007700 A *L
00761 R 004000 A *L
00762 R 000077 A *L
00763 R 000040 A *L
00764 R 007777 A *L
00765 R 770077 A *L
00766 R 777700 A *L
00767 R 000001 A *L
00770 R 000306 R *L
00771 R 000006 A *L
00772 R 000276 R *L
00773 R 000003 A *L
00774 R 000533 A *L
00775 R 000250 R *L
SIZE=00776 NO ERROR LINES

PAGE 8 HIHO2 CROSS REFERENCE

ASK	00007	66*	163	174					
ASS	00117	128	144*						
ASS2	00746	45	144						
BUFF	00340	183	238*						
BUTTON	00747	45	159	173	226				
CHKDIR	00171	153	161	179*	227				
CNT	00740	110	126						
DECTP	00250	224	230*						
DIRECT	00750	45	179						
DUMP	00751	45	214						
EOCOMP	00002	48*	189						
EOCONN	00003	49*	188						
EOLIB	00004	50*	148	187					
EOROUT	00005	51*	190						
FILABS	00276	171	232*						
FULTPE	00241	186	203	221*					
HIHO2	00006	44	45	65*	145	206	215		
ISP	00741	182	184	201					
LOOP	00063	113*	127						
MESS1	00752	45	158	172	225				
MODE	00742	177	208	217					
NAME	00753	45	68						
NAME1	00334	67	70	74	82	86	91	97	102
		108	111	146	175	207	237*		
NXT1	00067	117*	132						
NXT2	00073	121*	136						
NXT3	00077	125*	140						
N1	00743	147	151	165					
OVRWRT	00306	157	234*						
PTR	00744	112	113	117	121	125	129	131	133
		135	137	139					
PUSB	00001	47*	47	154	155	168	169	221	222
READ	00151	150	165*						
RP1	00103	116	129*						
RP2	00107	120	133*						
RP3	00113	124	137*						
SEEK	00163	167	175*						
STOR	00745	81	84	90	93	101	104		
TRAKS	00000	46*							
TRANFR	00234	178	209	213*					
WAIT	00143	159*	164						