```
1                       /------------------------------------------------------------------
2                       /
3                       /
4                       /
5                       /
6                       /
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                      / AAUTHORISATION 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 DESCIPTION 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                      /
```

```
                                        .TITLE DUMPIT
                                        .IODEV 4 / THIS IS AN IODEV CALL
                                        .GLOBL DUMPIT,.DA
00000 R 740040 A    DUMPIT XX
00001 R 120230 E            JMS* .DA
00002 R 600005 R            JMP .+1+2
00003 R 000000 A    SPOT 0
00004 R 000000 A    NUMB 0
00005 R 220003 R            LAC* SPOT
00006 R 040003 R            DAC SPOT
00007 R 200221 R            LAC FLAG
00010 R 740200 A            SZA
00011 R 600017 R            JMP NOINIT
00012 R 440221 R            ISZ FLAG
00013 R             START .INIT 4,1,START
00013 R 001004 A *G          CAL+1*1000 4&777
00014 R 000001 A *G          1
00015 R 000013 R *G          START+0
00016 R 000000 A *G          0
00017 R 200003 R    NOINIT LAC SPOT
00020 R 340231 R            TAD (-1
00021 R 060232 R            DAC* (14
00022 R 220004 R            LAC* NUMB
00023 R 740001 A            CMA
00024 R 340233 R            TAD (1
00025 R 040223 R            DAC CNTR#
00026 R 777772 A            LAW -6
00027 R 040225 R            DAC FRED# / BUFF WORD COUNT FOR 6010 FORMAT
00030 R 200234 R            LAC (BUFF+1
00031 R 060235 R            DAC* (15
00032 R 200236 R    LUP2 LAC (BUILD-1
00033 R 060237 R            DAC* (16
00034 R 200240 R            LAC (40
00035 R 060016 A            DAC* 16
00036 R 060016 A            DAC* 16
00037 R 060016 A            DAC* 16
00040 R 060016 A            DAC* 16
00041 R 220014 A            LAC* 14
00042 R 652000 A            LMQ
00043 R 777772 A            LAW -6
00044 R 040224 R            DAC CNT1#
00045 R 754000 A    LUP3 CLL!CLA
00046 R 660603 A            LLSS 3
00047 R 340241 R            TAD (60
00050 R 060016 A            DAC* 16
00051 R 440224 R            ISZ CNT1
00052 R 600045 R            JMP LUP3
00053 R 100063 R            JMS DECODE / SET UP FOR ASCII
00054 R 440225 R            ISZ FRED
00055 R 741000 A            SKP
00056 R 600122 R            JMP BUFULL
00057 R 440223 R            ISZ CNTR
```

```
 92          00060 R 600032 R            JMP LUP2
 93          00061 R 100133 R            JMS OUTPUT
 94          00062 R 620000 R            JMP* DUMPIT
 95                                      /
 96          00063 R 740040 A     DECODE XX
 97          00064 R 140226 R            DZM MQST#
 98          00065 R 200236 R            LAC (BUILD-1
 99          00066 R 060237 R            DAC* (16
100          00067 R 777773 A            LAW -5
101          00070 R 040227 R            DAC ZCNT#
102          00071 R 100077 R            JMS ZLOOPP
103          00072 R 140226 R            DZM MQST
104          00073 R 777773 A            LAW -5
105          00074 R 040227 R            DAC ZCNT
106          00075 R 100077 R            JMS ZLOOPP
107          00076 R 620063 R            JMP* DECODE
108                                      /
109          00077 R 740040 A     ZLOOPP XX
110          00100 R 200226 R     ZLOOP LAC MQST
111          00101 R 652000 A            LMQ
112          00102 R 200222 R            LAC ACST#
113          00103 R 744000 A            CLL
114          00104 R 640607 A            LLS 7
115          00105 R 040222 R            DAC ACST
116          00106 R 641002 A            LACQ
117          00107 R 744020 A            RCR
118          00110 R 360016 A            TAD* 16
119          00111 R 744010 A            RCL
120          00112 R 040226 R            DAC MQST
121          00113 R 440227 R            ISZ ZCNT
122          00114 R 600100 R            JMP ZLOOP
123          00115 R 200222 R            LAC ACST
124          00116 R 060015 A            DAC* 15
125          00117 R 200226 R            LAC MQST
126          00120 R 060015 A            DAC* 15
127          00121 R 620077 R            JMP* ZLOOPP
128                                      /
129          00122 R 100133 R     BUFULL JMS OUTPUT
130          00123 R 440223 R            ISZ CNTR
131          00124 R 600126 R            JMP MORE
132          00125 R 620000 R            JMP* DUMPIT
133          00126 R 777772 A     MORE LAW -6
134          00127 R 040225 R            DAC FRED
135          00130 R 200234 R            LAC (BUFF+1
136          00131 R 060235 R            DAC* (15
137          00132 R 600032 R            JMP LUP2
138                                      /
139          00133 R 740040 A     OUTPUT XX
140          00134 R 200242 R            LAC (64000 / C R IN TOP 7 BITS
141          00135 R 060015 A            DAC* 15
142                                      .WRITE 4,2,BUFF,34
             00136 R 002004 A *G          CAL+2*1000 4&777
```

```
          00137 R 000011 A *G          11
          00140 R 000145 R *G          BUFF
                           *G          .DEC
          00141 R 777736 A *G          -34
143                                    .WAIT 4
          00142 R 000004 A *G          CAL 4&777
          00143 R 000012 A *G          12
144       00144 R 620133 R             JMP* OUTPUT
145                                    /
146       00145 R 021002 A     BUFF 21002; 0
          00146 R 000000 A
147       00147 R        A             .BLOCK 40
148       00207 R        A     BUILD .BLOCK 12 / 10 WORD UNCODED BUFFER
149       00221 R 000000 A     FLAG 0
150                                    /
151             000000 A               .END
          00230 R 000230 E *E
          00231 R 777777 A *L
          00232 R 000014 A *L
          00233 R 000001 A *L
          00234 R 000146 R *L
          00235 R 000015 A *L
          00236 R 000206 R *L
          00237 R 000016 A *L
          00240 R 000040 A *L
          00241 R 000060 A *L
          00242 R 064000 A *L
              SIZE=00245     NO ERROR LINES
```

```
ACST    00222   112    115    123
BUFF    00145    68    135    142    146*
BUFULL  00122    90    129*
BUILD   00207    70     98    148*
CNTR    00223    65     91    130
CNT1    00224    80     85
DECODE  00063    87     96*   107
DUMPIT  00000    44     46     47*    94    132
FLAG    00221    54     57    149*
FRED    00225    67     88    134
LUP2    00032    70*    92    137
LUP3    00045    81*    86
MORE    00126   131    133*
MQST    00226    97    103    110    120    125
NOINIT  00017    56     59*
NUMB    00004    51*    62
OUTPUT  00133    93    129    139*   144
SPOT    00003    50*    52     53     59
START   00013    58*    58
ZCNT    00227   101    105    121
ZLOOP   00100   110*   122
ZLOOPP  00077   102    106    109*   127
.DA     00230    46     48
```