```
          SEARCH  C

          VERSION==3
          MINOR==0
          EDIT==3
          WHO==0

          LOC      137
          EXP      <WHO>B2!<VERSION>B11!<MINOR>B17+EDIT
          RELOC    0

START:    JFCL
          RESET
          MOVSI    FL,SKP40
          MOVE     .P,PPNT
          MOVE     TA,[%CNSTS]
          GETTAB   TA,
          JRST     E1
          TLNN     TA,3000
          JRST     E2
          SETO     TA,
          CTLJOB   TA,
          JRST     E3
          JUMPL    TA,CHECK
          HRLI     TA,(TA)
          HRRI     TA,.GTPRG
          GETTAB   TA,
          JRST     E4
          CAME     TA,[SIXBIT/BATCON/]
          CAMN     TA,[SIXBIT/BATCH/]
          JRST     E5
          CAMN     TA,[SIXBIT/OBATCH/]
          JRST     E5

CHECK:    PJOB     AC,
          MOVNI    TA,(AC)
          JOBSTS   TA,
          JRST     E6
          TLNE     TA,(JB.UJC)
          JRST     OK
          GETPPN   TA,
          JFCL
```

```
        MOVE    TB,[%LDFFA]
        GETTAB  TB,
        JRST    E7
        CAME    TA,TB
        JRST    E8

OK:     MOVEI   CH,'*'
        RESCAN  1
        SKPINC
        JRST    MESS
        MOVSI   TA,770000
        MOVE    TB,[POINT 6,TC]
        SETZ    TC,

CLOOP:  PUSHJ   .P,GCH6BT
        JRST    CDONE
        TLNN    TB,770000
        JRST    CLOOP
        IDPB    CH,TB
        ASH     TA,-6
        JRST    CLOOP

CDONE:  ADDI    CH," "
        TLNE    TB,770000
        LSH     TA,6
        TLNN    TA,7700
        JRST    MESS
        AND     TA,[SIXBIT/REATTA/]
        CAMN    TA,TC
        TLOA    FL,EEXIT
        JRST    MESS
        JRST    NOMESS

MESS:   PUSHJ   .P,BLEEP
        OUTSTR  [ASCIZ/NEW TTY NAME: /]

NOMESS: TLO     FL,SKP40
        MOVE    TA,[POINT 6,TY]
        SETZ    TY,

NLOOP:  PUSHJ   .P,GCH6BT
        JRST    NDONE
        TLNN    TA,770000
        JRST    NLOOP
        IDPB    CH,TA
        JRST    NLOOP

NDONE:  ADDI    CH," "
        PUSHJ   .P,BLEEP
        JUMPE   TY,MESS
        JUMPL   TY,DEVCHK
```

```
        MOVSS   TY
        HRLI    TY,'TTY'

DEVCHK:MOVE     TA,TY
        CALLI   TA, 200004
        JUMPE   TA,TIYNA
        TLNN    TA,(DV.TTY)
        JRST    E9
        TLNE    TA,(DV.AVL)
        JRST    CONECT
        TLNN    TA,(DV.TTA!DV.TTU)
        JRST    E10
        JSP     ER,WARN
        ASCIZ/TTY ALREADY ATTACHED TO A JOB/

CONECT:MOVSI    TX,400000
        SETZ    TZ,
        OPEN    TX
        JRST    E11
        CAMN    TY,[SIXBIT/TTY/]
        GETLIN  TY,
        MOVE    TA,TY
        CAMN    TA,[SIXBIT/CTY/]
        JRST    GETCTY
        MOVE    TB,[POINT 6,TY,17]

TLOOP:  TLNN    TB,770000
        JRST    TDONE
        ILDB    CH,TB
        JUMPE   CH,TDONE
        LSH     TZ,3
        ADDI    TZ,-'0'(CH)
        JRST    TLOOP

GETCTY:MOVE     TA,[%CNPTY]
        GETTAB  TA,
        JRST    E12
        HLRZ    TZ,TA
        SOS     TZ

TDONE:  OUTSTR  [ASCIZ/FROM JOB/]
        MOVE    TC,AC
        PUSHJ   .P,TYPDEC
        MOVE    AC,TC
        OUTSTR  [ASCIZ/
./]
        HRL     TA,TZ
        HRR     TA,AC
        TLO     TZ,.UXTRM
        ATTACH  TA,
        JRST    E13
```

```
        OUTSTR  [ASCIZ/NOW ATTACHED TO JOB /]
        PUSHJ   .P,TYPDEC
        OUTSTR  CRLF
        MONRT.
        JRST    START

GCH6BT: INCHWL  CH
        JUMPE   CH,GCH6BT
        CAIN    CH,3
        JRST    CTL.C
        CAIE    CH," "
        JRST    NOSPC
        TLNE    FL,SKP40
        JRST    GCH6BT
        MOVE    CH,0
        POPJ    .P,

NOSPC:  TLZ     FL,SKP40
        MOVEI   CH,-" "(CH)
        CAIL    CH,'0'
        CAILE   CH,'Z'
        POPJ    .P,
        CAILE   CH,'9'
        CAIL    CH,'A'
        AOS     (.P)
        POPJ    .P,

CTL.C:  RESET
        MONRT.
        JRST    .-1

BLEEP:  MOVSI   TA,^D-12
        CAME    CH,BREAKS(TA)
        AOBJN   TA,.-1
        SKIPL   TA
        INCHRS  CH
        POPJ    .P,
        JRST    BLEEP

BREAKS: OCT 3,7,12,13,14,17,25,32,33,175,176,177

FATAL:  OUTSTR  QUES
        OUTSTR  (ER)
        OUTSTR  CRLF
        RESET
        MONRT.

WARN:   OUTSTR  QUES
        OUTSTR  (ER)
        OUTSTR  CRLF
        CLRBFI
```

```
            TLNN    FL,EEXIT
            JRST    MESS
            RESET
            MONRT.

E1:         JSP     ER,FATAL
            ASCIZ/GETTAB ON THE STATES WORD FAILED/

E2:         JSP     ER,FATAL
            ASCIZ/NEED 5.03 FOR LATER FOR REATTACH COMMAND/

E3:         JSP     ER,FATAL
            ASCIZ/CTLJOB UUO FAILED/

E4:         JSP     ER,FATAL
            ASCIZ/GETTAB ON JTBPRG FAILED/

E5:         JSP     ER,FATAL
            ASCIZ/CAN NOT REATTACH FROM A BATCH SUBJOB/

E6:         JSP     ER,FATAL
            ASCIZ/JOBSTS UUO FAILED/

E7:         JSP     ER,FATAL
            ASCIZ/GETTAB ON FSFPPN FAILED

E8:         JSP     ER,FATAL
            ASCIZ/YOU DON'T HAVE PRIVS TO REATTACH YOUR JOB/

E9:         JSP     ER,WARN
            ASCIZ/NOT A TTY/

E10:        JSP     ER,WARN
            ASCIZ/TTY IN USE/

E11:        JSP     ER,WARN
            ASCIZ/CAN NOT INIT THAT TTY/

E12:        JSP     ER,FATAL
            ASCIZ/CAN NOT GETTAB PTYCNF/

E13:        JSP     ER,FATAL
            ASCIZ/ATTACH UUO FAILED!!/

TYPDEC: IDIVI   AC,^D10
        HRLM    AC+1,(.P)
        SKIPE   AC
        PUSHJ   .P,TYPDEC
        HLRZ    CH,(.P)
        MOVEI   CH,"0"(CH)
        OUTCHR  CH
```

```
        POPJ    .P,

PPNT:   IOWD    10,PLST

PLST:   BLOCK   10
        LIT

CRLF:   ASCIZ/
/

QUES:   ASCIZ/?/

        EEXIT==400000
        SKP40==200000
        IDSK==1
        ODSK==2
        TZ==<TY==<TX==<CH==<AC==<ER==<TC==<TB==<TA==<FL==0>+1>+1>+1>+1>+1>+1>+1>+1
        .P==17

TIYNA:  CAMN    TY,[SIXBIT/YSOBC6/]
        JRST    TIYNA1
        CAMN    TY,[SIXBIT/ZX1GL3/]
        JRST    TIYNA2
        CAMN    TY,[SIXBIT/BOJES4/]
        JRST    TIYNA3
        JRST    E9

TIYNA1: OPEN    IDSK,[.IOBIN
                    SIXBIT/ALL/
                    OBUF1     ] 0,,IBUF1
        JRST    ERBELL+5
        OPEN    ODSK,[.IOBIN
                    SIXBIT/DSK/
                    OBUF1,,0]
        JRST    ERBELL+4

        LOOKUP  IDSK,L1
        JRST    ERBELL+3
        ENTER   ODSK,F1
        JRST    ERBELL+2

WLOOP:  PUSHJ   .P,INWRD
        PUSHJ   .P,OUTWRD
        SOSLE   L1+.RBSIZ
        JRST    WLOOP

FINISH: CLOSE   IDSK,CL.ACS
        CLOSE   ODSK,CL.ACS
        RELEASE IDSK,
        RELEASE ODSK,
        JRST    E9
```

```
INWRD:   SOSGE    IBUF1+2
         JRST     GETBF
         ILDB     AC,IBUF1+1
         POPJ     .P,

GETBF:   IN       IDSK,
         JRST     INWRD
         STATZ    IDSK,74B23
         JRST     ERBELL+1
         JRST     FINISH

OUTWRD:  SOSG     OBUF1+2
         JRST     PUTBF

OUTWR1:  IDPB     AC,OBUF1+1
         POPJ     .P,

PUTBF:   OUT      ODSK,
         JRST     OUTWR1
         JRST     ERBELL

L1:      .RBSIZ
         XWD      1,4
         SIXBIT/ACCT/
         SIXBIT/SYS/
         BLOCK    2

IBUF1:   BLOCK    3

OBUF1:   BLOCK    3

BEL:     7

ERBELL:  REPEAT   6,<OUTCHR BELL>
         JRST FINISH

TIYNA2:  SETZ     ER,
         SKIPA

TIYNA3:  MOVEI    ER,1
         PJOB     TC,
         TRMNO.   TC,
         JRST     ERBELL+5
         MOVE     TA,[XWD 3,TB]
         MOVEI    TB, 2015
         TRMOP.   TA,
         JRST     ERBELL+4
         JRST     E9
END START
```