

0

3

```

0      ( Huffman Decoder: HUFF)                                11/06/85 AWK )
1
2      : HUFF> ( addr cnt -- )
3      BTOFFSET OFF D$-OFF OFF HB$-PTR OFF 128 HBIT !
4      'DVECTOR-INIT EXECUTE
5      BEGIN DUP D$-OFF @ >
6      WHILE
7      BEGIN OVER HB$-PTR @ + C@ BRANCH-OR-OUT UNTIL
8      REPEAT 2DROP 'DVECTOR-FINAL EXECUTE ;
9
10     \ translate Huffman compressed string into uncompressed string
11     \ process each character through 'DVECTOR to send to display,
12     \ string address, etc.
13
14
15

```

1

4

```

0 ( Huffman Decoder: variables                                11/06/85 AWK ) ( Huffman Decode Vectors      AWK 11/06/85)
1
2 V= BTADDR          \ branch table address                  : 0HUFFSPACE ( -- ) LSCAN OFF ;
3 V= BTOFFSET        \ offset from BTADDR                   : 0HUFFSPACE ' 'DVECTOR-INIT !
4 V= HB$-PTR         \ pointer to current byte in HB$
5 V= D$-OFF          \ offset of current char in D$         : B>HUFFSPACE ( b -- )
6 V= HBIT            \ current bit of HB$ + HB$-PTR         : LSCAN DUP C@ + 1+ C! 1 LSCAN +! ;
7 ' DROP C= 'DVECTOR \ pfa of display vector               : B>HUFFSPACE ' 'DVECTOR !
8 ' NOP C= 'DVECTOR-INIT \ pfa of display vector initializer
9 ' NOP C= 'DVECTOR-FINAL \ pfa of display vector final    : CNT>LSCAN ( { n -- n } )
10 \ : THERE PAD 288 + ;                                     : PHRASE$ 1+ C@ LSCAN C! ;
11
12 \ : B>PAD ( b -- ) THERE DUP C@ + 1+ C! 1 THERE +! ;    : CNT>LSCAN ' 'DVECTOR-FINAL !
13 \ ' B>PAD ' 'DVECTOR !
14 \ : OPAD ( -- ) THERE OFF ;
15 \ ' OPAD ' 'DVECTOR-INIT !

```

2

```

0 ( Huffman Decoder: DELTA-PTRS BRANCH-OR-OUT                3/29/85 AWK )
1
2 : DELTA-PTRS ( -- )
3 HBIT @ DUP 128 = HB$-PTR +! 2/ DUP 0= 128 * + HBIT ! ;
4
5 : BRANCH-OR-OUT ( b -- f )
6 HBIT C@ AND 0>          \ left or right branch
7 BTADDR @ + BTOFFSET @ + C@ DUP 128 AND
8 IF 127 AND 2* BTOFFSET +!
9 ELSE 1 D$-OFF +! 'DVECTOR EXECUTE BTOFFSET OFF THEN
10 DELTA-PTRS HBIT @ 128 = ;
11
12 \ execute 'DVECTOR if cell is a char else branch to new cell
13
14
15

```