```
/* COMP_RLE description:
byte N:
           N bytes of uncompressed data follow
   +N:
           generic escape code (see below)
   0:
           following byte is byte-count for word/long data (pos/neg)
   -1:
        -1 $ab $cd $ef $gh $ij
           $ab > 0 means $cdef is word data repeated $ab times
           $ab < 0 means $cdefghij is long data repeated -$ab</pre>
           $ab == 0 reserved
           next byte is byte-count of pixels to skip, count of 0 means use LUT
   -2:
encoding
         -2 $ab $cd $ef $gh
           $ab == 0 means use LUT encoding for this scan line
              $cd is table size, or zero for same as last table
              the table is found as the next $cd bytes
           $ab != 0 skip $ab pixels
           repeat the following byte N times
   -N:
Generic escape code: 0 $ab $cd $ef $gh $ij $kl
   case $a of:
      %0000 (0) - $bcd is a count for uncompressed data
      %0001 (1) - $bcd is a count for byte-data $ef
      %0010 (2) - $bcd is a count for word-data $efgh
      %0011 (3) - $bcd is a count for long-data $efghijkl
      %0100 (4) - $bcd is a count of the number of pixels to skip
      %0101 (5) - $bcd is a count of the number of scan lines to skip
                 (0 means go directly to next scan line)
      %0110 (6) - fill scan lines
               switch ($b)
                  %00: fill next $cd scan lines with $ef
                  %01: fill next $cd scan lines with $efgh
                  %11: fill next $cd scan lines with $efghijkl
      %1111 (15) - END OF BITMAP
      UNASSIGNED (Lempel-Ziv section)
            $cd is a count for repeated run of the previous $b bytes
                                     $b is dx offset (-8 to 7)
            copy data from above:
                             $cd is the byte count
                             ef is # of lines back (0 = same line)
                                      $b contains 2 sets of 2 high bits for x1 and d1
            copy data from above:
                             $cd is # of lines back (0 = same line)
                             $ef is x1, the start byte
                             $qh is d1, the count byte
            copy the next $cd bytes from the scan line above (0 = till end of scan
 line)
```

1

*/

```
DIFF_NONE = 0, /* use MOVE, don't depend on previous frame data (full rect ext
                DIFF MOVE,
                                 /* use MOVE, does depend on previous (skips or non-full extent
                DIFF XOR
                                 /* use XOR, does depend on previous frame (obviously) */
       } Diff;
       /* compression types (up to 8 different kinds) */
       typedef enum {
               COMP NONE,
                                    /* uncompressed bitmap */
               COMP RLE,
                                     /* CAVF comprehensive RLE format */
               COMP PICT,
                                     /* standard PICT file */
               COMP PICT_LUT,
                                     /* PICT, using lut from within */
               COMP 4BIT
                                     /* histogram-computed 4-bit codes (MacWrite style) */
       } Comp;
                    N bytes of uncompressed data follow 200 incompressed to the low-word fun generic escape code (see below)
       /* RLE description:
      byte N:
           +N:
           0:
                    next byte is byte-count followed by word-length data
           -1:
           -2:
                    next byte is byte-count of pixels to skip, count of 0 and 1 are reserved
                        count 0 restrof soan line is uncompressed data
                        count 1: 2
                    repeat the following byte N times
           -N:
                    repeat the following byte out to the completion of this scan line
          <del>-</del>128:
      case $a of: one - then is a pixel skip count

($1000 - Shed is a pixel skip count
             / %1000 - $bcd is a pixel skip count
               %1001 - $bcd is a count for byte-data $ef
               %1010 - $bcd is a count for word-data $efgh
               $1011 - $bcd is a count for long-data $efghijkl parous
$1100 - $cd is a count for repeated run of the following $b bytes
               %0001 - copy data from above:
                                                   $b is dx offset (-8 to 7)
                                                   $cd is the byte count
                                                   $ef is # of lines back (0 = same line)
                                                   $b contains 2 sets of 2 high bits for x1 and di
               %0010 - copy data from above:
                                                   $cd is # of lines back (0 = same line)
                                                   ext{sef} is x1, the start byte
                                                   $gh is d1, the count byte
               \$0011 - copy the next \$cd bytes from the scan line above (0 = till e
abla d of scan
               %0100 - fill next $cd scan lines with byte value $ef
                                                          word
      * /
      typedef struct {
                                                  /* BITMAP */
           Opcode
                             type;
                            left, top;
           int
                            width, height;
                                                  /* area of change */
           int
                            bw : 1;
                                                  /* black and white (one-bit) */
           Byte
                            diff_type : 3;
                                                  /* Differencing type */
           Byte
                                                  /* Compression type */
           Byte
                            comp type : 4;
           Byte
                            data[];
      } OpBitmap;
5- Steep & col scanlines

1- bcd bytherm

5- fill next *col scan lines with 2- 1 word own

16-00 byte value that 3- bcd long own

10 long follows

4- bcd skip Go t
```

NIBBLES in BITS

1-17 -> That many nibbles of uncompressed data follow 8-7-3- Repeat following nibble this many times.

1 Consider the count (>0 word, <0/w)

1 Collowing nibble to the Stair

O escape code

O escape ...
Following nibble byte byte ...

Follows long thingd ...

Kippit

non run count byte run count

skip l'count stoend)
elsip lines (0 stoend)
nibble to repent in
BOXTOM of following byte

(3)

125 S. 50 S.