

| sistema            | signo                 | codificación                              | rango                                | valor                                                              |
|--------------------|-----------------------|-------------------------------------------|--------------------------------------|--------------------------------------------------------------------|
| binario puro       | —                     | $BIN(V, n)$                               | $[0, 2^n - 1]$                       | $\sum_{i=0}^{n-1} d_i \cdot 2^i$                                   |
| signo-magnitud     | $Z \geq 0$<br>$Z < 0$ | $s = '0'$<br>$BIN( Z , n-1)$<br>$s = '1'$ | $[-(2^{n-1} - 1),$<br>$2^{n-1} - 1]$ | $(-1)^s \sum_{i=0}^{n-2} d_i \cdot 2^i$                            |
| complemento a 2    | $Z \geq 0$<br>$Z < 0$ | $BIN(Z, n)$<br>$BIN(2^n -  Z , n)$        | $[-2^{n-1},$<br>$2^{n-1} - 1]$       | $\sum_{i=0}^{n-2} d_i \cdot 2^i - d_{n-1} \cdot 2^{n-1}$           |
| complemento a 1    | $Z \geq 0$<br>$Z < 0$ | $BIN(Z, n)$<br>$BIN(2^n - 1 -  Z , n)$    | $[-(2^{n-1} - 1),$<br>$2^{n-1} - 1]$ | $\sum_{i=0}^{n-2} d_i \cdot 2^i - d_{n-1} \cdot 2^{n-1} + d_{n-1}$ |
| exceso a $2^{n-1}$ | $Z \geq 0$<br>$Z < 0$ | $BIN(2^{n-1} + Z, n)$                     | $[-2^{n-1},$<br>$2^{n-1} - 1]$       | $\sum_{i=0}^{n-2} d_i \cdot 2^i - \bar{d}_{n-1} \cdot 2^{n-1}$     |