

Source: BT, NEC

Title: Table of Multiplier Values for Inverse DCT

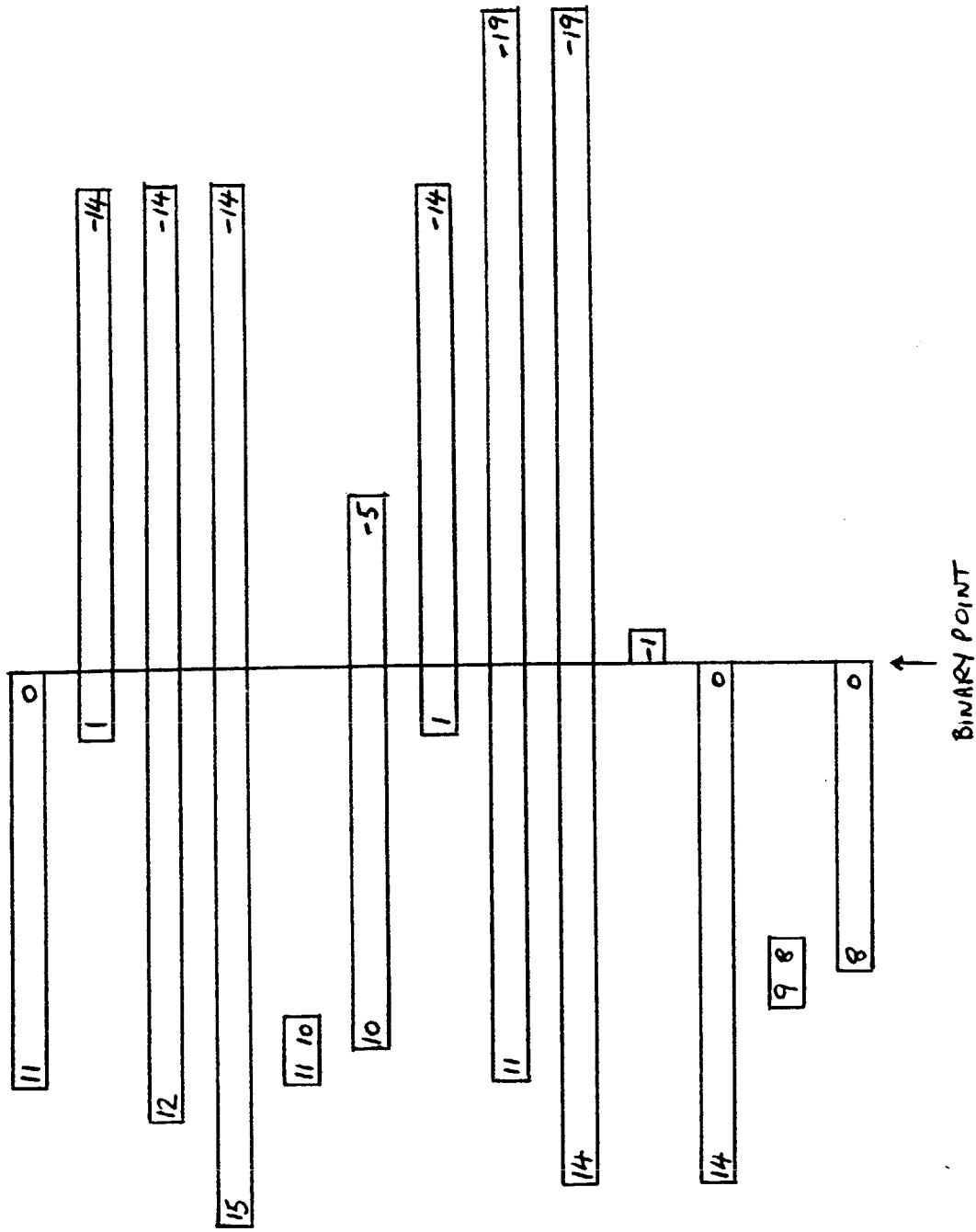
The values listed below are the hexadecimal equivalent of the words, of sixteen bit width, stored in PROMs, each being the two's complement representation of the integer rounded value of 16384 times the matrix element value derived according to:

$$B(i,j) = 1/2 C(i) \cos[(2j+1) i \pi/16]$$

$$i,j = 0,1,\dots,7$$

$$\begin{aligned} \text{where } C(i) &= 1/\sqrt{2} \text{ for } i = 0 \\ &= 1 \text{ for } i = 1,2,\dots,7 \end{aligned}$$

16A1	16A1	16A1	16A1	16A1	16A1	16A1	16A1
1F63	1A9B	11C7	063E	F9C2	EE39	E565	E09D
1D90	0C3F	F3C1	E270	E270	F3C1	0C3F	1D90
1A9B	F9C2	E09D	EE39	11C7	1F63	063E	E565
16A1	E95F	E95F	16A1	16A1	E95F	E95F	16A1
11C7	E09D	063E	1A9B	E565	F9C2	1F63	EE39
0C3F	E270	1D90	F3C1	F3C1	1D90	E270	0C3F
063E	EE39	1A9B	E09D	1F63	E565	11C7	F9C2



2-D INVERSE TRANSFORM BIT SPANS

TRANSFORM DOMAIN INPUT
 MATRIX FROM ELEMENT 1ST 1-D
 PRODUCT OF ABOVE TWO
 SUM OF EIGHT PRODUCTS
 OVERFLOW CHECK BITS
 1ST 1-D OUTPUT
 MATRIX FROM ELEMENT 2ND 1-D
 PRODUCT OF ABOVE TWO
 SUM OF EIGHT PRODUCTS
 ROUNDING DETERMINATION BIT
 INTEGER VALUE
 OVERFLOW CHECK BITS
 REL DOMAIN OUTPUT