

```

40 static void create_dct_matrix(FLOAT filter[16][32])
41 {
42     register int i, k;
43     register int aux = 0;
44
45 #ifdef FLOAT_DOUBLE
46     for (i = 0; i < 16; i++)
47         for (k = 0; k < 32; k++) {
48             //if ((filter[i][k] = 1e9 * cos((FLOAT) ((2 * i + 1) * k * PI64))) >= 0)
49             if ((filter[i][k] = tabcos_create_dct_matrix[aux++]) >= 0)
50                 modf(filter[i][k] + 0.5, &filter[i][k]);
51             else
52                 modf(filter[i][k] - 0.5, &filter[i][k]);
53             filter[i][k] *= 1e-9;
54         }
55 #else
56     for (i = 0; i < 16; i++)
57         for (k = 0; k < 32; k++) {
58             //if ((filter[i][k] = 1e9 * cos((FLOAT) ((2 * i + 1) * k * PI64))) >= 0)
59             if ((filter[i][k] = tabcos_create_dct_matrix[aux++]) >= 0)
60                 modff(filter[i][k] + 0.5, &filter[i][k]);
61             else
62                 modff(filter[i][k] - 0.5, &filter[i][k]);
63             filter[i][k] *= 1e-9;
64         }
65 #endif
66 }

```