

$$F(u, v) = \frac{1}{4} C(u) C(v) \left[\sum_{x=0}^7 \sum_{y=0}^7 f(x, y) * \cos \frac{(2x+1)u\pi}{16} \cos \frac{(2y+1)v\pi}{16} \right], \quad C(x) = \begin{cases} \frac{1}{\sqrt{2}} & x=0 \\ 1 & \text{else.} \end{cases}$$