	Single (qu)bit	Double (qu)bits	Eight (qu)bits / (qu)byte
Classic bit(s)	$\lvert 0\rangle = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$ $\lvert 1\rangle = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$	$\lvert 01\rangle$ $= \begin{array}{cc} \begin{bmatrix} 0 \\ 1 \\ 0 \\ 0 \end{bmatrix} & \begin{array}{c} 00 \\ 01 \\ 10 \\ 11 \end{array} \end{array}$	$\lvert 01101011\rangle$ $= \begin{array}{cc} \begin{bmatrix} 0 \\ 0 \\ \vdots \\ 0 \\ 1 \\ 0 \\ \vdots \\ 0 \\ 0 \end{bmatrix} & \begin{array}{c} 00000000 \\ 00000001 \\ \vdots \\ 01101010 \\ 01101011 \\ 01101100 \\ \vdots \\ 11111110 \\ 11111111 \end{array} \end{array}$
Quantum bit(s)	$\lvert \varphi\rangle$ $= \begin{array}{cc} \begin{bmatrix} c_0 \\ c_1 \end{bmatrix} & \begin{array}{c} 0 \\ 1 \end{array} \end{array}$ $= c_0 \cdot \lvert 0\rangle + c_1 \cdot \lvert 1\rangle$ where $\sum_{i=0}^{1} \lvert c_i\rvert^2 = 1$	$\lvert \varphi_0 \varphi_1\rangle$ $= \begin{array}{cc} \begin{bmatrix} c_0 \\ c_1 \\ c_2 \\ c_3 \end{bmatrix} & \begin{array}{c} 00 \\ 01 \\ 10 \\ 11 \end{array} \end{array}$ $= c_0 \cdot \lvert 00\rangle + c_1 \cdot \lvert 01\rangle + c_2 \cdot \lvert 10\rangle + c_3 \cdot \lvert 11\rangle$ where $\sum_{i=0}^{3} \lvert c_i\rvert^2 = 1$	$\lvert \varphi_0 \varphi_1 \varphi_2 \varphi_3 \varphi_4 \varphi_5 \varphi_6 \varphi_7\rangle$ $= \begin{array}{cc} \begin{bmatrix} c_0 \\ c_1 \\ \vdots \\ c_{106} \\ c_{107} \\ c_{108} \\ \vdots \\ c_{254} \\ c_{255} \end{bmatrix} & \begin{array}{c} 00000000 \\ 00000001 \\ \vdots \\ 01101010 \\ 01101011 \\ 01101100 \\ \vdots \\ 11111110 \\ 11111111 \end{array} \end{array}$ $= c_0 \lvert 00000000\rangle + \cdots + c_{255} \lvert 11111111\rangle$ where $\sum_{i=0}^{255} \lvert c_i\rvert^2 = 1$