Vectorgation Oho(21) = EDOX; = OTX $0 = \begin{cases} 0 & \text{theta(1)} \\ 0 & \text{theta(2)} \end{cases} \begin{cases} 2 & \text{theta(2)} \\ 2 & \text{theta(3)} \end{cases} \begin{cases} 2 & \text{theta(3)} \end{cases}$ Muvectorized implementation (MATLAB) prediction = 0.0; JOAJ=184+1 prediction=prediction+theota(j)*x(j) endi Vectorized Implementation (MATLAB) prediction = theata) * 23 Un vectorize Implementation (C++)

double production = 0.0; for (unt j=0; j <= n; j++)
prediction += theta[j] * n[j]; Vectorized Emplementation (C++) double prediction=theta.transpose()*x;