## Lecture 15 - Ethernet LANs

**Exercise 1**: How many possible OUI's are there? How many devices can be manufactured for each OUI?

801 is 3 bytes = 24 bits  
but MS. 2 bits = 0  
22 bits can be chard  

$$\therefore 2^{22} \approx 2^2 \cdot 2^{2^\circ} \approx 4 \times 10^6 \text{ ols Is}$$
for each out can have  $2^{24} = 2^4 \times 2^{10} = 16 \times 10^6$   
addresses/out.