Example using these equations (0.35 µm technology)

- Assume $\lambda = 0.2$ µm (gate is 0.4 µm as drawn)  

\[
\begin{align*}
\text{Drain or Source Capacitance} &= \text{area} \times C_J + \text{external-perimeter} \times C_{JSW} \\
&= \left(0.6 \times 0.2 + 0.8 \times 0.8\right) \times 10^{-12} \times 5 \times 10^{-4} + \left(0.8 \times 3 + 0.2\right) \times 10^{-6} \times 2 \times 10^{-10} \\
&= 0.38 + 0.52 = 0.9 \text{ fF}
\end{align*}
\]

Gate Capacitance (Lactual = 0.35 µm) =