













Wordline Capacitance

- · Word line presents a large capacitance to the decoder
- Each cell loads the word line with two transistor capacitances and one wire capacitance (plus wire resistance)
- Total capacitance is the capacitance per cell x number of cells
 on word line
 Total capacitance is the capacitance per cell x number of cells





Bitline Capacitance

Load capacitance is mostly self-loading of the cells

Drain cap and drain contacts (0.5-1 fF) of transistors are shared

- Junctions are biased at Vdd (lower cap than normal)

• Wire capacitance ~ .2fF/micron of wire





















