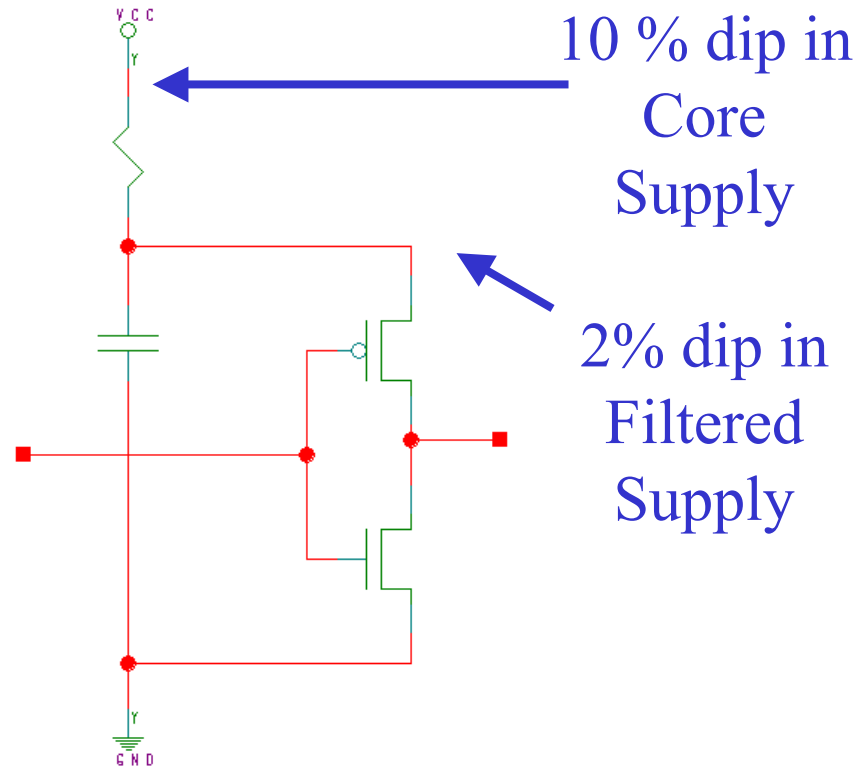


# Miscellaneous Clock Topics

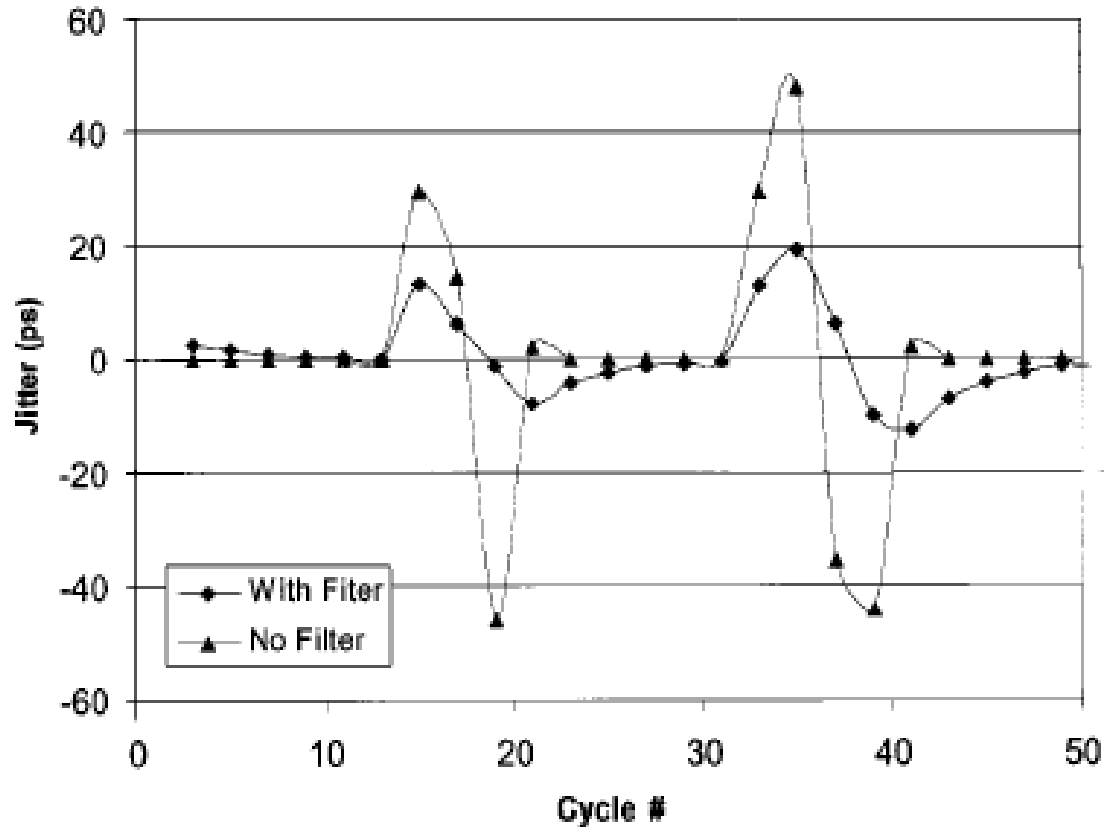
# Pentium 4 Power Supply Filtering Circuit



Simple RC filter used for clock drivers.

$$\tau = 2.5 \text{ ns}$$

# Pentium 4 Power Supply Filtering Jitter Reduction



Same technique is used on the Messenger/MLA altimeter.

# Representative Dynamic Power Numbers

## **A1280/A1280XL Power (mW)**

F (MHz)	Module	Input	Output	Clock	Total
1	11	13	21	27	72
2	23	25	42	54	144
5	57	63	105	136	360
10	113	125	210	272	720
20	227	250	419	544	1,440
30	340	375	629	815	2,159
40	453	500	839	1,087	2,879