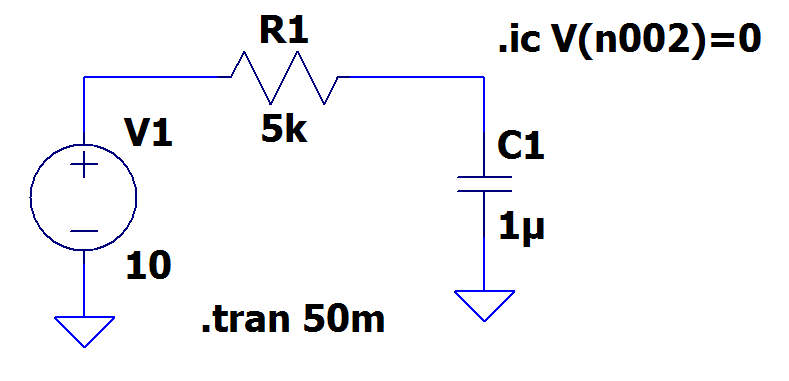
**[Transient Analysis](http://www.zen22142.zen.co.uk/ltspice/transient.htm)**

DC Transient Charging a Capacitor



**.in** means initial condition



AC Transient

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**Output :**

****

Phase φ = 360 \* f \* Δt = 360 \* 1000 \* 0.00001202 = 43.27°

**Import Spice Model**

[**https://www.youtube.com/watch?v=cp7deyHFUnQ&list=LLKquMlwGpuHA4hpluqUM6PQ&index=1&t=278s**](https://www.youtube.com/watch?v=cp7deyHFUnQ&list=LLKquMlwGpuHA4hpluqUM6PQ&index=1&t=278s)