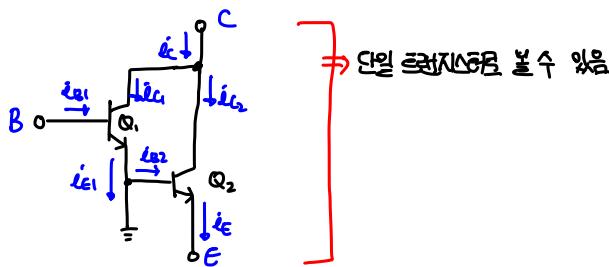


CC-CC 동속 멀티 페리, 멀티톤 쌍, 복합 트랜지스터



$$\cdot i_{E1} = (\beta_{o1} + 1) i_{B1} = i_{B2}$$

$$\cdot i_{C2} = \beta_{o2} \cdot i_{B2} = \beta_{o2} \cdot (\beta_{o1} + 1) i_{B1}$$

$$\cdot i_C = i_{C1} + i_{C2}$$

$$= [\beta_{o1} \cdot i_{B1}] + [\beta_{o2} \cdot (\beta_{o1} + 1) \cdot i_{B1}]$$

$$= [\beta_{o1} \cdot \beta_{o2} \cdot (\beta_{o1} + 1)] \cdot i_{B1}$$

$$\therefore \beta_{DP} = \frac{i_C}{i_{B1}} = \beta_{o1} + \beta_{o2} (\beta_{o1} + 1) \equiv \beta_{o1} \cdot \beta_{o2} \quad \Rightarrow \text{는 전류 이득의 곱임, 매우 큰 전류 이득을 얻을 수 있다.}$$

$$\therefore \text{if } \beta_{o1} = \beta_{o2} = \beta_o, \quad \beta_{DP} = \beta_o^2$$