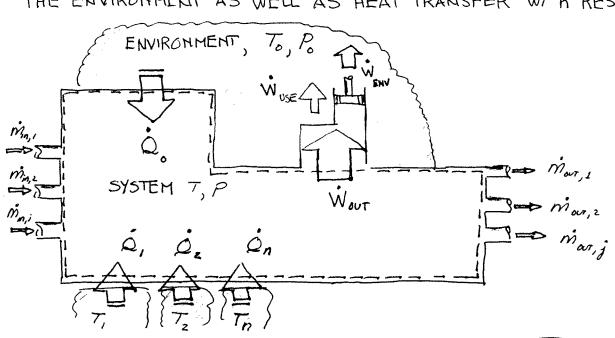
CONSIDER A GENERAL SYSTEM EXCHANGING HEAT & POWER W/
THE ENVIRONMENT AS WELL AS HEAT TRANSFER W/ n RESERVOIRS.



THE BIG QUESTION



¿ HOW BIG CAN WE GET WOUT TO BE KEEPING

THE HEAT TRANSFER TO/ PROM RESERVOIRS THE SAME

AS THE SYSTEM GOES THROUGH THE SAME STATE POINTS?

Cons. of Energy

Acct. of Entropy -

SOLVE ACCT. & ENTROPY FOR Q & SUB INTO ENERGY:

ENERGY BECOMES

SOLVE FOR WOUT

$$\vec{W}_{our} = -\frac{d}{dt} \left(E_{sys} - T_o S_{sys} \right) + \sum_{i=1}^{n} \left(1 - \frac{T_o}{T_i} \right) \dot{Q}_i + \sum_{in} m(h + \frac{V^2}{2} + gz - T_o \Delta)$$

$$- \sum_{\alpha i} m(h + \frac{V^2}{2} + gz - T_o \Delta) - \frac{1}{2} m(h + \frac{V^2}{2} + gz - T_o \Delta)$$

= (rate of)

War, MAK OCCURS WHEN

AND

$$\overline{W} = \overline{W}_{\alpha r},$$

RATE of IRREVERSIBILITY = 15085