Fath Yildre

03.3) When we pipelie the stages, time diagram looks like: Then the pipelned execution time becomes $T_p = t_p - t_o = (+t + (n-1).t)$ Then the improvement over time: $I = \frac{T_s}{T_P} = \frac{4tn}{4t + (n-1).t} = \frac{4n}{4+n-1}$ For fixed number of steps (4),

as lim I = lim 4n = 4

No the improvement we get is limited by 4. That is, the best case is that we can speed up the process by 4.