2. A. Seedup = $\frac{\text{Execution time old}}{\text{Execution time num}} = \frac{1 - \text{Fraction}}{1 - \text{Fraction}} + \frac{\text{Fraction}}{\text{Seadup}}$ $= \frac{1 - 0.2}{1 - 0.2} + \frac{0.1}{2 - 1} = 1.11$ b. Seedup = $\frac{\text{Execution time old}}{\text{Execution time num}} = \frac{1}{(1 - \text{Fraction})} + \frac{\text{Fraction}}{\text{Seadup}}$ $= \frac{1 - 0.2 - 0.1}{1 - 0.2 - 0.1} + \frac{0.2}{2 - 1} + \frac{0.1}{2 - 1} = 1.05$ $= \frac{0.1}{(1 - 0.2 - 0.1) + \frac{0.2}{2 - 1} + \frac{0.1}{2 - 1}} = 10.5\%$
b. Seedup= Execution time new = (1- Fraction) + Enchan seedup
$\frac{z}{C} \cdot \frac{(-v ^2 - \sigma_1) + \frac{ \sigma_2 ^2}{2} + \frac{ v_1 ^2}{2/3}}{(-v ^2 - \sigma_1) + \frac{ v_2 ^2}{2} + \frac{ v_1 ^2}{2/3}} = 1, \forall S$
21 LVS
(1-0.2-0.1)+ 0.2 + 0.1 = 15.8%