- By how much, is it over/ under budget?

  Under budget by 700 k$

- By how many days, is it ahead/ behind the schedule?

  Behind the schedule by 1 month

  Because task C starts in the 5th month and should end in 7th month so it behind the schedule by 1 month

  Also, task D should be 66.6% not 33.3% so it is behind the schedule by 1 month

  As task C and D is parallel tasks the project behind the schedule by 1 month

- By the end of the project, by how much will it be over/under budget?

  Task C may be the actual cost of it 400 k$

  Task D may be the actual cost of it 1500 k$

  Task E may be 300 k$ as estimated

  So, the cost will be over budget by 500 k$

- CV

  CV= (Earned value (EV)) – (Actual cost (AC))

  EV= (% of work completed) x (Budget)

  EV = (100+100+50+33.3/500) * 3700 =2096.42

  AC = 600 + 1400 + 200 + 500 = 2700

  CV = 2096.42 - 2700 = -603.59 (OVER BUDGET)

- SV

  SV = BCWP – BCWS

  BCWP = (Total Project Budget) X (The Percentage of Work That Has Been Completed) = 3700 * 0.5666 = 2096.42

  BCWS = (Total Project Budget) X (The Percentage of Work That Should Be Done by Now, Based on Time Elapsed) = 3700 * (100+100+100+66.6)/500 =2712.84

  SV = 2096.42 – 2712.84 = - 616.42 (-22 .7% BEHIND THE SCHEDULE)

- CPI

  CPI = EV / AC = 2096.42 / 2700 = 0.7764 (OVER BUDGET)

- SPI

  SPI = EV / PV = 2096.42 / 2712.84 = 0.772(behind schedule)

- EAC

  EAC = AC + (BAC - EV) = 2700 +(3700 - 2096.42) = 4303.58