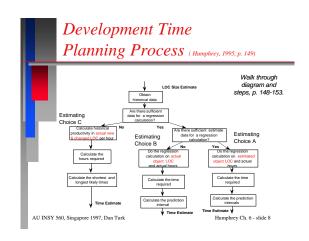
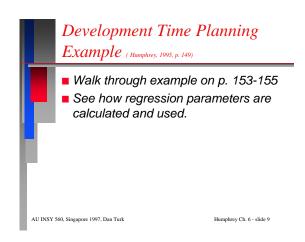
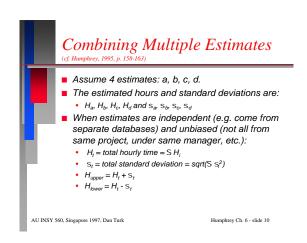


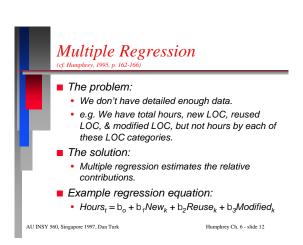
Estimating Task Time (cf. Humphrey, 1995, p. 145) ■ The SW development task is a special instance of general tasks for which time estimates must be made. • See Fig. 6.3, p. 156, and general task-estimation steps. ■ For SW development we prefer to base our estimates on historical data. ■ We have three types of historical data which may be used: • A: Estimated object LOC & total actual development hours • B: Actual object LOC & total actual development hours • C: Actual total new/changed LOC & total actual development hours AU INSY 560, Singapore 1997, Dan Turk Humphrey Ch. 6 - slide 7







Combining Multiple Estimates Under Dependence (cf. Humphrey, 1995, p. 158-163) Must use more involved calculation for the prediction interval when estimates to be combined are not statistically independent Use formulas on p. 160-162 AU INSY 560, Singapore 1997, Dan Turk Humphrey Ch. 6 - slide 11

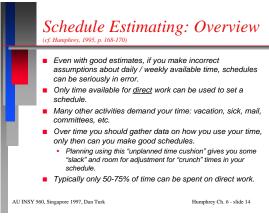


Multiple Regression (cont.) (cf. Humphrey. 1995, p. 162-168) Gauss's method is used to solve the simultaneous equations (cf. p. 560-564 for an example). The resulting equation is: Hours = 6.71 + 0.0784*650 + 0.0150*3000 + 0.2461*155 = 141 b₀ = 6.71 hours overhead b₁ = 0.0784 hrs to develop a new LOC (12.76 LOC / hr) b₂ = 0.0150 hrs to reuse a LOC (66.48 LOC / hr) b₃ = 0.2461 hrs to modify a LOC 4.06 LOC / hr) The prediction interval calculation and formulas are shown on p. 166-168. Caution: Use regression with care. Don't apply

formula outside database limits.

Humphrey Ch. 6 - slide 13

AU INSY 560, Singapore 1997, Dan Turk



Schedule Estimating: The PSP Schedule Planning Procedure The procedure is documented by: Fig 6.4: PSP Schedule Planning Diagram Table 6.11 & 12: Schedule Planning Template & Example Table 6.13 & 14: Task Planning Template & Example NOTE: This is presented in a very TOP-DOWN approach, as opposed to a BOTTOM-UP approach which is commonly used in activity. based planning (cf. MGT 882). Look at and talk about Fig. 6.4, p. 171 ■ Walk through step-by-step sequence, & forms Discuss relationship of this method to project networks, activity-based planning, etc. Show equivalent network for Humphrey's task plan · Demonstrate project management software. AU INSY 560, Singapore 1997, Dan Turk Humphrey Ch. 6 - slide 15

