Basic Assumptions; throughout the lifetime to of the project. budget. b project has certain 4 Calculation of project demation is based on person-month. 7 techniques are used in cost estimation; 1. parkingon's law!
If states that work
expands so be on to fill the time available for its completion. This mean that cost is determined by the available resources wather than by objective arresonment. 2. experts judgement; Final cost estimate is arrived by consensus. 3. Algorithm cort model? A model is developed using historical cost information. which relates some so is s/w metric. (generally it is meanwed in terms of KlOC) is a common way of meanwring the S/W size.

Estimation by omalogy of a new project is estimated by analogy with those completed projects. 5. pricing to win o Estimated mojet is based on the customer's budget, 6. top-down estimation i [a Know how. are made on the baris of logical functions, rather than the components estimating the function .I. Bottom up entsmatobn? each component is estimated. Calculate

Cost Estimation o amount of effort required to build the prime factor & size Measuring points: LOC(Lines of (ode) and fp (function points) To get the fundamental extimation Objective s to generate the metric for S/W productivity or ment. A Why different methods are used in

different applications.

function proint is one most widely used measure of the size. The basis of FP et s/m functionality of the system, is the what the system perform. that is meanwed sto stre. is the In IP, the system's functionalisty Calculated in terms of no of function it implements, no of i/ps, etc The original formulation for computing the fa uses the count of five different parameters. 1. External inputs! each unique Tp type (data/control) which is given as import to the app from ontride is considered as external inports and it is external impro Counted. The some of application programme Lan be user or Roj suport files.

Output; 2. Extennal the system boundary is that meet external off. counted as Ex; report / menage etc. 3. logical internal file; each app maintain information internally for performing its function. It togi tach logical group of data or control inform which is generated, used and maintained by the appis counted as logical internal fre Ex: marter file, logs file etc. 4. External interface file ? and shared between applications are counted as external interface file. 5. External Queries:

A Query is defined
on an intent input, ontput combination where the i/p cannot the opp to generate almost immediately. Each unique i/p-o/p almost inquiry types.

Complex 15 point function Comples Hug Simple External I/P 4 External ofp 4 External Queries 15 10 Logical internal file 7 External interface 10 7 From the above table we compute Unadjusted function Points (UFP) or Unadjusted Junction (6mt (UFC) Z Wi & Ci Ufp = wi is the entry in the ith row of the table for given project Complexity type. (i is the count of no of elements of type i for given project complexity type

Computing tunction Point Adjustable & po To adjust the values of function point after getting UFC/UFP, TCF (Technical Complexity Factor) is generated. The FCF has 14 components of Lift characters Does the system require reliable backup (recovery? 2) Are data comp communication required? 3 Are there distributed processing functions? What one the performing 18mmes? (5) Will the system run in heavily intilized environment and operation? 6 Does the system require online data Doen the data entry operation require the any import to an entrons to be build over multiple scoreous? 8. & fre the marter files uplated online?

9. Are i/p o/p files or enquines Complex of internal processing complex 10, Is the port resser reusalle ? 11. Is the 12. Whether installation included in derign? 13. Is the englen designed for multiple intallation in diff organization 14: Is the app designed to facilitied changes? a The decree of influence of each of them factors is taken to be from 0-5, representing 6 Litt levels. To 0: no influence. !! insignificant influence 2'i moderate 3: Aveg N 41 significant 51 strong , u u

the 14 degrees of influence for the ystem are summed to up to give for total K which is used to Obtain Complexity Adjustment Factor (CAF) or Technical Complexity Factor (TCF) CAF = 0.65 + 0.01 * 6 N The value of CAF or TCF & ranges from 0.65 to 1.35 and the delivered function point / Adjustable function point / function point is calculated on FP = TCFA UFP