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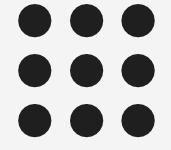
Department of Information Technology

Course Name – IT8075 Software Project Management

IV Year / VII Semester

Unit 2 – Project Lifecycle and Effort Estimation

Topic 9- COCOMO II









COCOMO – COnstrucitve COst MOdel

- Developed by Dr.Barry W Boehm in 1970's
- Developed based on study of 63 projects
- Software Project Cost estimation model.

It predicts or estimates

- Effort required for project
- Total project cost
- Scheduled time for project

It estimates above parameters based on number of lines of code i.e size of project











COCOMO II



Formula (effort)=c(size)^K

Effort – Measured in PM (person months) Units of 152 working hours

Size – measured in kdsi Thousands of delivered source code instructions

c and k are constants

First step
Derive estimation of system size in kdsi.
c and k based on system type









Boehm's system classification Organic Mode – small team developed s/w, familiar in house environment, small system. Ex – Information systems - Simple

Semi-detached	Mode -	- Combination	of	organic
and embedded	mode - l	Intermediate		

Embedded Mode – constrained and changes were costly
Ex – Real time systems - Advanced

System Type	C	K
Organic	2.4	1.05
Semi-detached	3.0	1.12
Embedded	3.6	1.20







COCOMO II

New model with wide range process models

Estimates needed for different lifecycle stages

It support three different stages

Application composition

Early design

Post architecture





THANK YOU