AN INTRODUCTION TO RCI'S RESOURCE ESTIMATION TOOLS

4 NOVEMBER 1987

PRESENTATION AT THE COCOMO USER'S GROUP MEETING

Reifer Consultants, Inc.
25550 Hawthorne Boulevard, Suite 208/Torrance, California 90505
RCI'S PRODUCT STRATEGY

System Specification

ASSET-R Sizing tool

SoftCost-sp
Estimation package for small projects

SoftCost-R
Estimation package for real-time and scientific systems

SoftCost-dp
Estimation package for commercial dp systems

SoftCost-Ada
Estimation package for Ada systems

SoftCost-es
Estimation package for expert systems

SoftCost-1c
Estimation package for operations and maintenance

Data Analysis & Collection Center (DACC)
THE SOFTCOST-ADA PACKAGE

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<th>Report Generator</th>
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<td>SoftCost-Ada Editor</td>
<td>MS DOS Operating System</td>
<td>IBM or Compatible Personal Computer</td>
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**Inputs**
- Main Menu
- Setup Screen
- Project Factors
- Process Factors
- Product Factors
- Personnel Factors
- Subproject Screen
- Sizing Screen

**Outputs**
- SoftCost-Ada Estimate
- Input Value Validation
- "What-If" Gaming
- Resource Allocation Summary
- Project Estimate Summary
- Gantt/PERT Chart
SOFTCOST-ADA "WHAT-IF" PLOT

CONFIDENCE VS. EFFORT
FOR A FIXED DURATION = 60.0 MONTHS

Effort in person-months (x 100)

Press any key to continue
SOFTCOST-ADA: CURRENT STATUS

- Product introduced in July 1987

- Product being used by eleven organizations
  - CSC
  - DOD
  - GE
  - JMCA
  - MITRE
  - RAYTHEON
  - Five original study participants

- Operational versions of the package exist for:
  - IBM PC and PC/XT running DOS 2.1
  - IBM PC/AT running DOS 3.1
  - COMPAQ, KAYPRO 2000 and compatibles

- Marriage to other packages being developed
  - ASSET-R
  - CAAMS
  - DACC
  - SOFTCOST-LC

- Integration into modern software environments under development
THE ASSET-R PACKAGE

SIZING MODEL | REPORT GENERATOR | STATISTICAL ROUTINES

ASSET-R EXPERT SYSTEM SHELL
MS DOS OPERATING SYSTEM
IBM OR COMPATIBLE PERSONAL COMPUTER

Inputs:
- Main menu
- Setup screen
- Project attributes
- Product attributes
- Process attributes
- Personnel attributes
- Sizing factors

Outputs:
- ASSET-R size estimate
- Input value validation
- "What-if" gaming
- Resource management plan
- Project estimate summary
FUNCTION POINTS FOR REAL-TIME SYSTEMS


Function point estimation
- Classify and count the pertinent parameters
- Compute the number of function points
- Develop operand/operator counts
**ASSET-R: CURRENT STATUS**

- **Product introduced in July 1987**

- **Product being used by ten organizations:**
  - Alcatel
  - Hitachi
  - JMCA
  - Kodak
  - PN Associates
  - Rocketdyne
  - SEL-Germany
  - Tektronix
  - USAF
  - Westinghouse

- **Operational versions of the package exist for:**
  - IBM PC and PC/XT running DOS 2.1
  - IBM PC/AT running DOS 3.1
  - Compaq, Kaypro 2000 and compatibles

- **Marriage to other packages being developed**
  - CAAMS
  - DACC
  - SoftCost-Ada
  - SoftCost-R

- **Integration into modern software environments under development**

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