COCOMO II Update

Barry Boehm, USC
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USC-CSE Affiliates (26)

- Commercial Industry (10)
  - Bellcore, EDS, Hughes, Lucent, Motorola,
    Network Programs, Rational, Sun, TI, Xerox
- Aerospace Industry (9)
  - Allied Signal, Boeing/Rockwell, GDE Systems,
    Litton, Lockheed Martin, Northrop Grumman,
    Raytheon/E-Systems, SAIC, TRW
- Government (4)
  - FAA, USAF Rome Lab, US Army Research
    Labs
- FFRDC’s and Consortia (4)
  - IDA, MCC, SEI, SPC
Model Plans: Affiliate Priorities

21 • Improve accuracy of COCOMO II Model
15 • Cost/schedule/quality tradeoffs
12 • Sizing improvements
10 • COTS integration costs
 7 • Activity Distribution
 3 • Life cycle tradeoff models

Recent COCOMO II Highlights

• Using Bayesian approach to calibrate COCOMO II 1998
  – 160 data points
  – Increased accuracy
• COCOMO II book in process
• COCOTS model fully elaborated
  – Doing data collection and analysis
• Stronger USC COCOMO II, 1998 tool underway
  – On-line help
  – File import-export
• COSTAR commercial version of COCOMO II available
  – Cost Xpert version also coming
• Arranging to enhance and distribute Code Count
  – Developed by George Kalb (Whouse/North Grum/LockMart)
COCOMO II Book

- Not a full replacement of Software Engineering Economics
  - Model definition and usage
  - Application exercises
  - Emerging extensions
- USC COCOMO II and manual on CD
  - Possibly demo versions of commercial tools
- New edition every two years
  - Reasonably-priced paperback
  - Affiliates have preferential access to intermediate results

COCOMO II Session Agenda
(Monday PM agenda)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>12:45 – 1:15 pm</td>
<td>Clark</td>
<td>Effects of Maturity on Software Effort</td>
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<tr>
<td>1:15 – 1:30 pm</td>
<td>Boehm</td>
<td>COCOMO II Update</td>
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<td>1:30 – 2:00 pm</td>
<td>Steece</td>
<td>Bayesian Analysis Principles</td>
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<td>2:00 – 2:30 pm</td>
<td>Chulani</td>
<td>COCOMO II Bayesian Analysis</td>
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<td>2:30 – 3:00 pm</td>
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<td>Break</td>
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<td>3:00 – 3:30 pm</td>
<td>Reifer</td>
<td>COCOMO 81 – COCOMO II Rosetta Stone</td>
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<td>3:30 – 4:00 pm</td>
<td>Abts</td>
<td>COTS Integration Cost Model (COCOTS)</td>
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<td>4:00 – 4:30 pm</td>
<td>In</td>
<td>Software Cost Option Strategy Tool (S-COST) II</td>
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<td>4:30 – 5:00 pm</td>
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<td>General Discussion</td>
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