COCOMO 2.0 Affiliate Usage Experience Update

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COCOMO 2.0 Affiliates’ Meeting
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Outline

- Data Collection Update and Issues
- Tool Usage
Data Collection

- Litton has provided data for some recently completed projects
  - facilitated by new division post-mortem procedures consistent with COCOMO 2.0 dataset
  - Software Process Assessment was also done on these projects by SEI licensee
- Several more projects are in post-mortem data analysis and validation phase
  - anticipated to finish on time for initial COCOMO 2.0 calibration
- Will expand data submission to include other Litton divisions

Data Collection (continued)

- An ADA project brought up issue of ADA generics
  - chose to count instantiations as new code and increased Required Reusability
- CMS-2 project size issues
  - wrote tools to count size per COCOMO 2.0 source statement definition
  - exact count of both new and modified lines enabled by embedded tokens
Data Collection (continued)

- Multiple platform/data aggregation situation:

  - Product 0
  - Platform 1

  - Re-engineered

  - Product 1
  - Port

  - Product 2
  - Port + declassify

  - Product 3
  - Platform 2

  - Projects to be measured

- Desirable to have 3 data points, but effort data is virtually inextricable
  - Treated as a single project and using reuse parameters to convert adapted code to equivalent new code size for COCOMO calibration

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Amadeus Tool Update

- Litton is standardizing on Amadeus for all platforms
  - Custom compilations of code analysis tool performed for SCO Unix and DEC Ultrix

- Performing detailed comparison of size outputs between Amadeus and Adamat
  - Possible disconnects for executable statements under investigation by Amadeus

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