Name: Code Counter Enhancements EMS

Presenter(s): Yue Chen

Objectives:
- Improved the current Code Counter package by adding acceptance tests and/or regression tests;
- Add Object Lines of Code counting to the improved package;
- Gathering instruments for effort and defects, including gross estimates and results tracking.

Rationale: Code Counters are a set of tools automated to count Source Lines Of Code (SLOC). The counters reduce the time and effort needed to effectively estimate future implementations by means of providing accurate statistics of the current source programs. The counting results provide concrete statistical basis for project effort estimating and thus greatly contribute to the project scheduling and cost estimation.

Target Users: Project managers, software cost analysts.

Scope: This direct research project follows the “Learn by doing” approach led by Prof. Winsor Brown. It covers the following contents:

- Learn to use the current code counting tool – C/C++ Counter.
- Learn by testing. We improve the tool by testing it and fixing the problems identified.
- Learn by enhancing existing tools. We enhance the tools by adding/verifying the object lines of code counting.
- Learn by developing new counters for C#, VB languages, etc.

Corresponding to the agile method research led by CSE, our 14-person-direct-research-team will also practice the “peer testing” approach and contribute a set of project process, experience and effort data.

Project Type: Direct research project.

Runs On: Unix, Windows, Vax VMS, MS-Dos

IPR Status: Center for Software Engineering

Technical Approach: Counting source line of code.

Developers: Adnan Choudhary, Alexander Batzios, Bhaumin Shah, Hamel Nayak, Hasan Rashid, Jieqi (Janet) Chu, Kumara Guru Gowrappan, Mingle Mehta, Nirav Desai, Nitesh Agarwal, Sai Narain Krishnamurthi, Vijay Silva, Yii-Chieh(Winnie) Huang, Yue Chen(Project Manager)

Future Directions: Generate a counter for a new language (C# or VB);