

# Demonstration Guide

## USC-CSSE Annual Research Review 2008

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**Name:** CodeCount toolset

**Presenter(s):** Winsor Brown, Vu Nguyen

**Objective:** CodeCount toolset is designed to provide source code sizing information through an automated process. It also spans across varying programming languages and utilizes one of possible two Source Lines of Code definitions physical or logical.

**Rationale:** CodeCount toolset utilizes one of possible two SLOC definitions physical or logical. The physical is programming language syntax independent and is used to collect information like comments, blank lines, overall size, etc. The logical definitions follow an extension of SEI's counting framework.

**Target Users:** This tool is designed for programmers and business analysts including project managers thus providing some information on source code sizing by means of which they can estimate and allocate resources for testing, further development etc. Logical SLOC is the key input of COCOMO II model.

**Scope:** Source code sizing; Lines of code analysis.

**Project Type:** Multi-year USC-CSSE research project

**Runs On:**

- Windows 95, 98, NT, 2000, XP
- Unix, Linux

**IPR Status:** The CodeCount toolset is copyright USC Center for Systems and Software Engineering but is made available with a Limited Public License which permits the distribution of the modifications you make provided you return a copy to us so we can further enhance the toolset for the benefit of all.

**Developers:** Directed Research students of the Center and industry professionals from Aerospace, Northrop Grumman Mission Systems, and Boeing.

**Future Directions:** Develop more programming language counters, provide better documentation and add more features to the existing counters, and integrate all existing counters into a single tool.