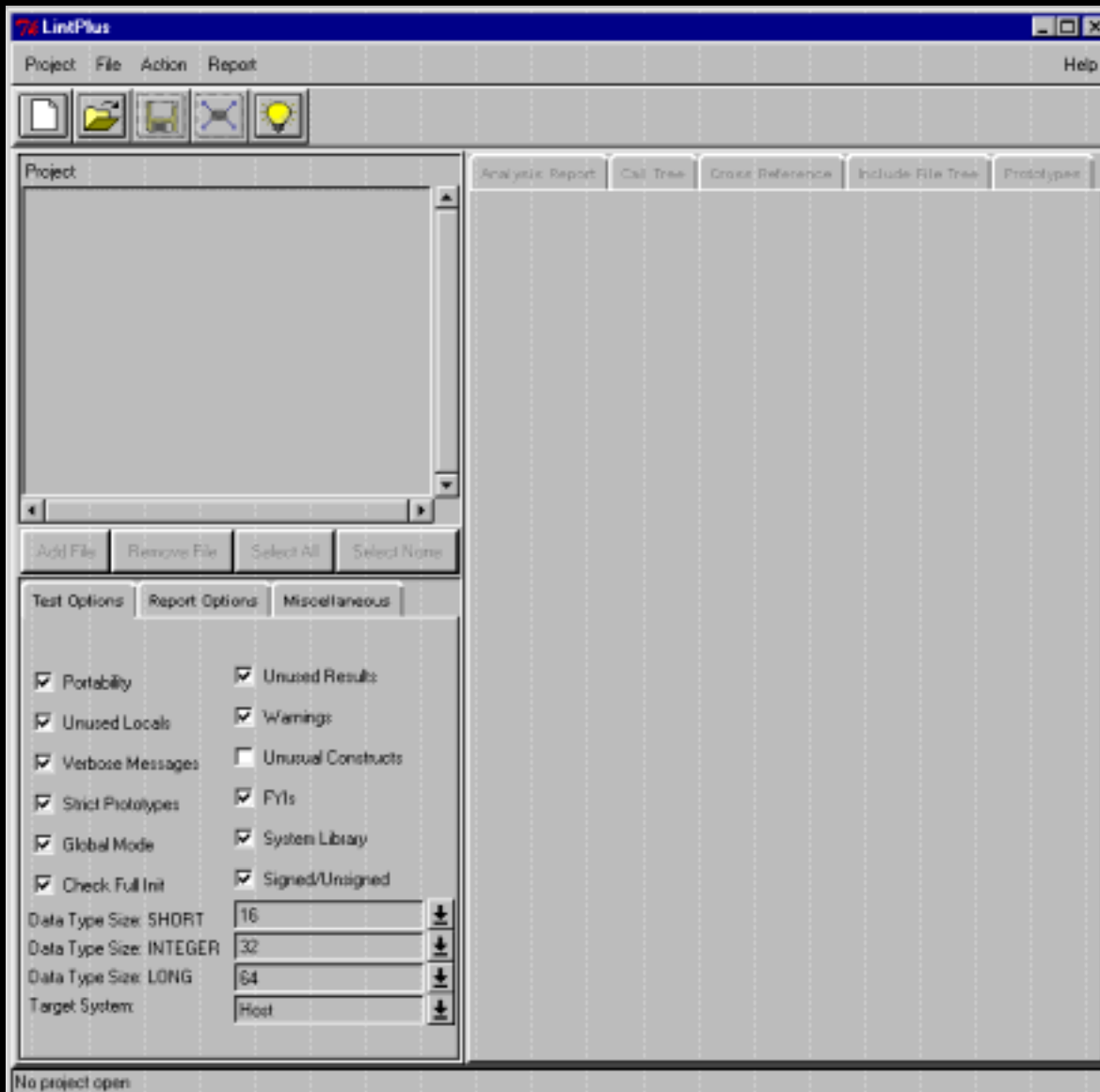# How to stop C programming problems at the source

Cleanscape LintPlus Source Analyzer for C Tutorial and Demonstration
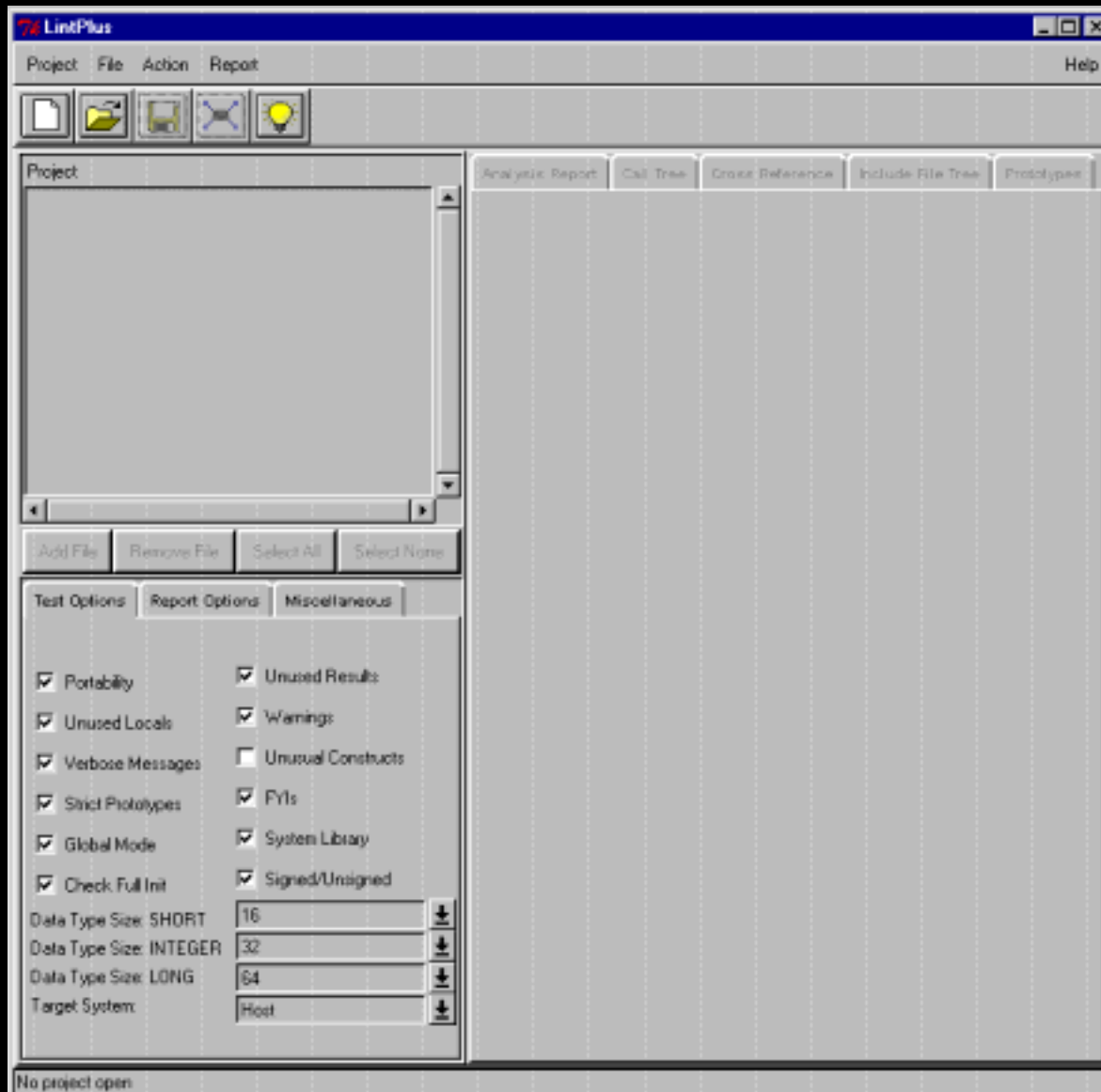
Keywords: software programming tools, static source code analyzers, c language, lint, software test automation, source code analysis, C language, software development automation
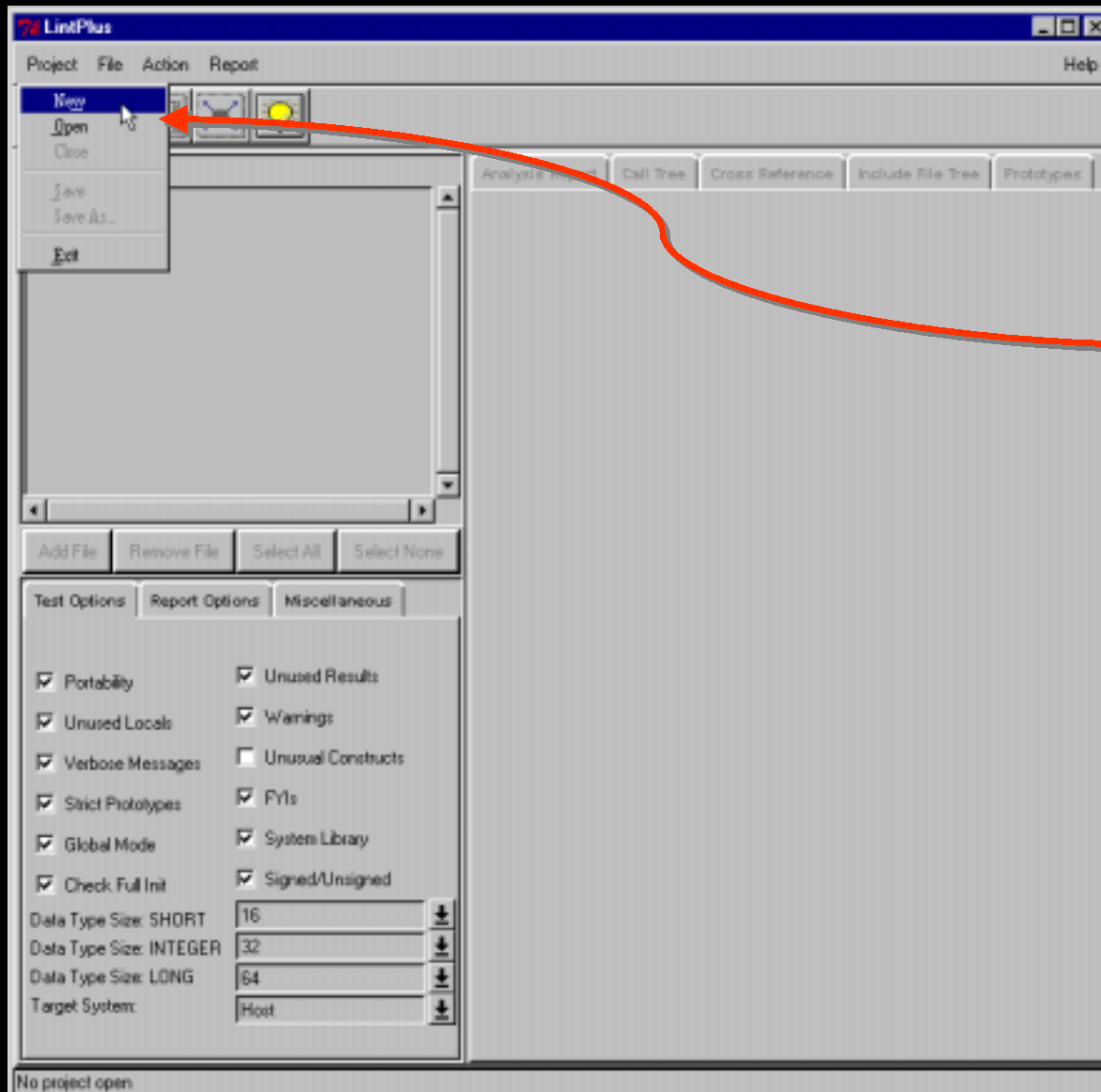
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Introduction

♦ **Advanced Static Source Code Analysis for C**

♦ **Catch problems in source code**
  ♦ Develop faster, better, smarter, cheaper, cleaner
  ♦ Reduce risk

♦ **Ideal for:**
  ♦ Packaged software development
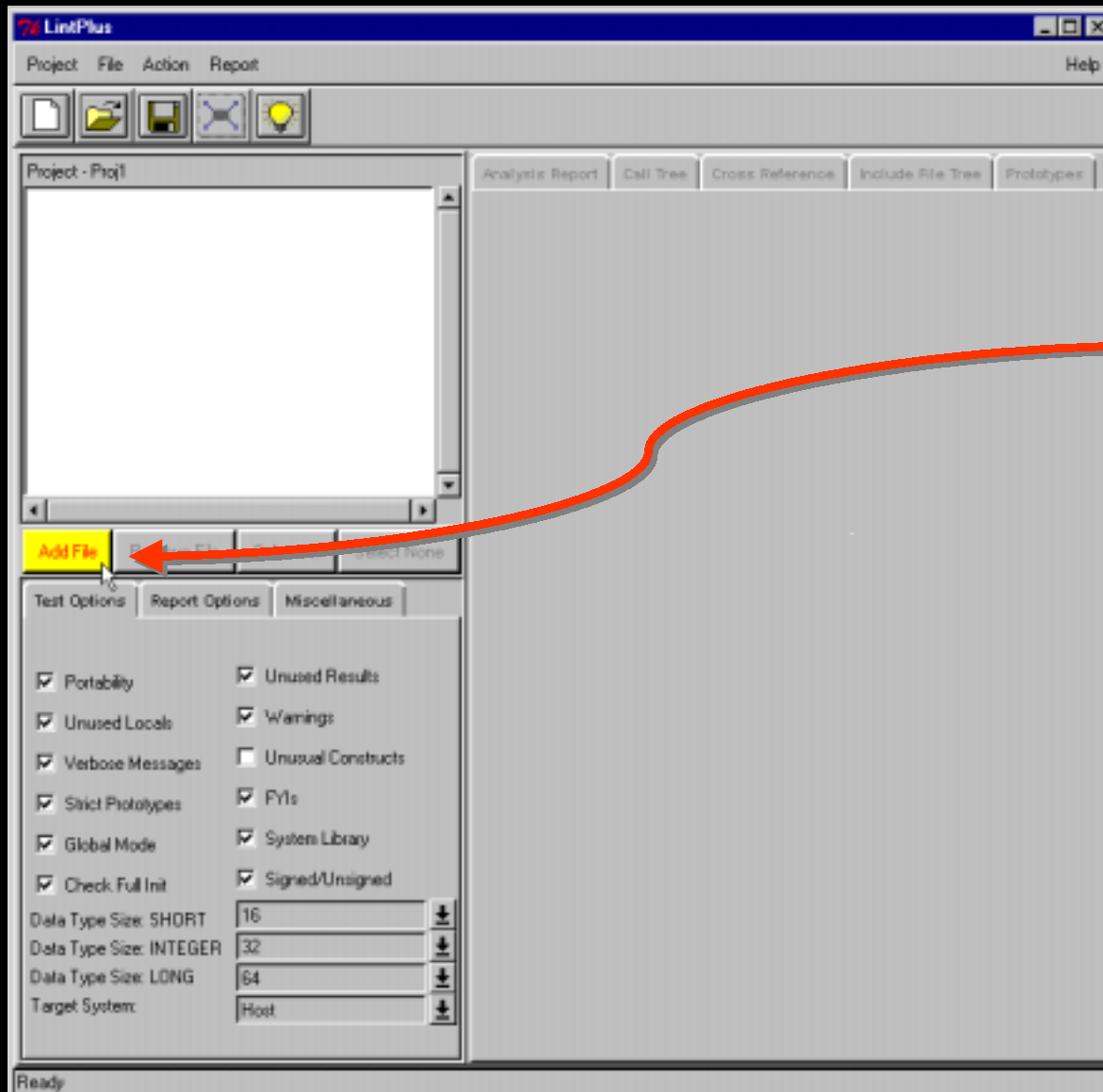 ♦ Cross-platform development
  ♦ Embedded systems development

Graphical User Interface

♦ **Just click to access to powerful analysis features**

♦ **Simple to use**

♦ **No learning curve**
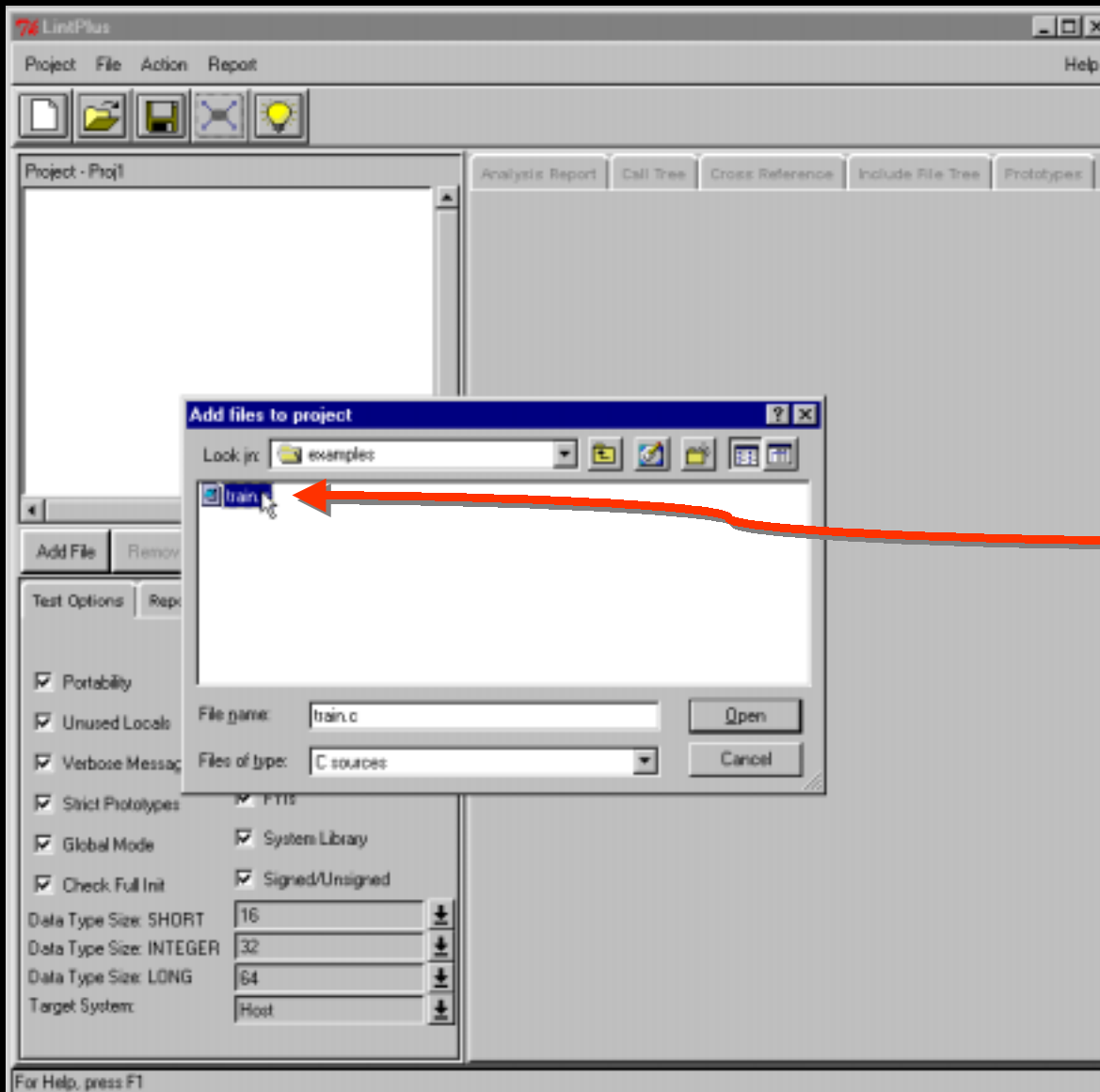
Start new project

♦ **Select Project > New**

Add File to Project

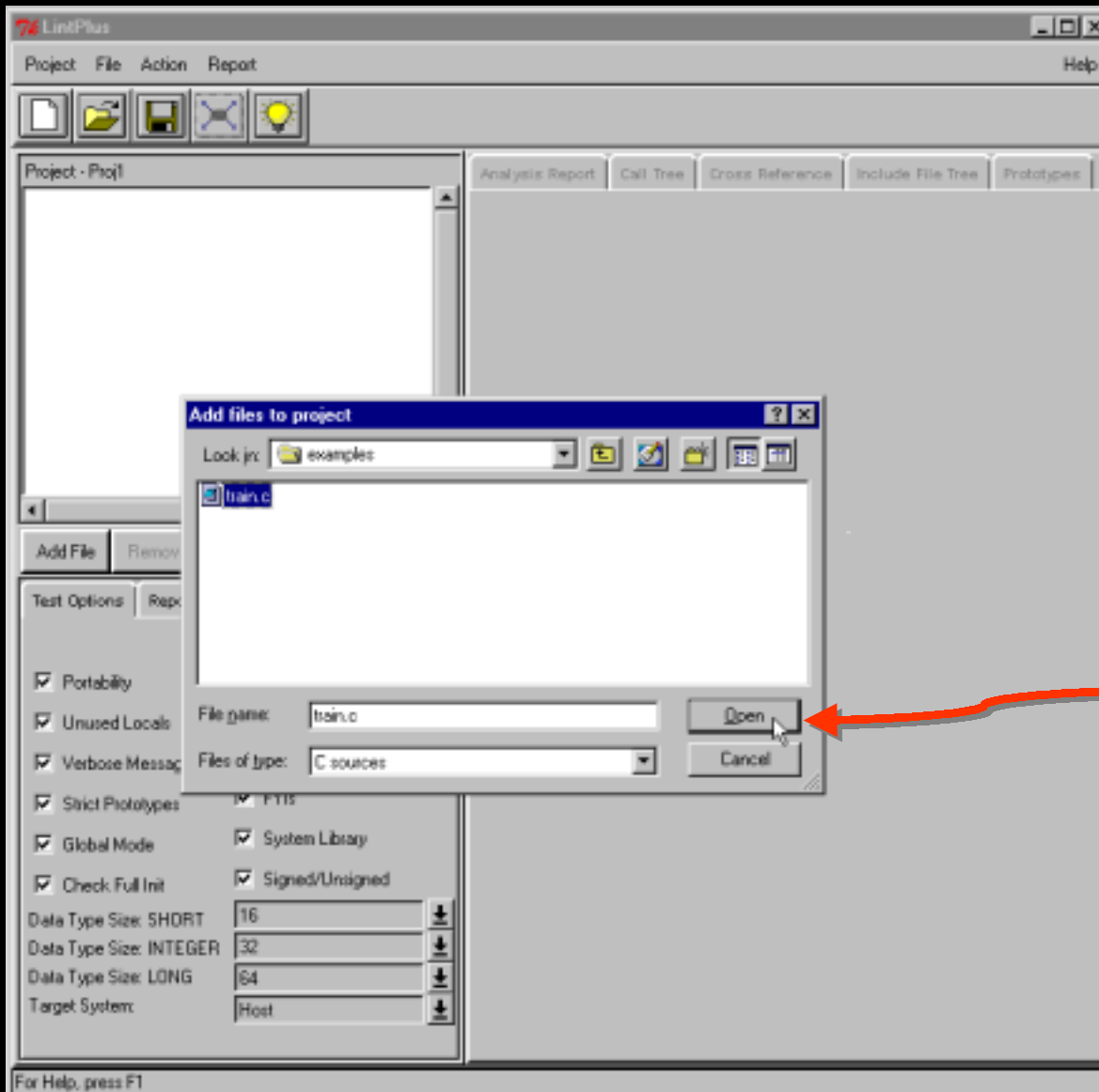♦ **Press "Add File"**
- ♦ Or select: File > Add file

Add File to Project

♦ **Press "Add File"**
  ♦ Or select:
    File > Add file
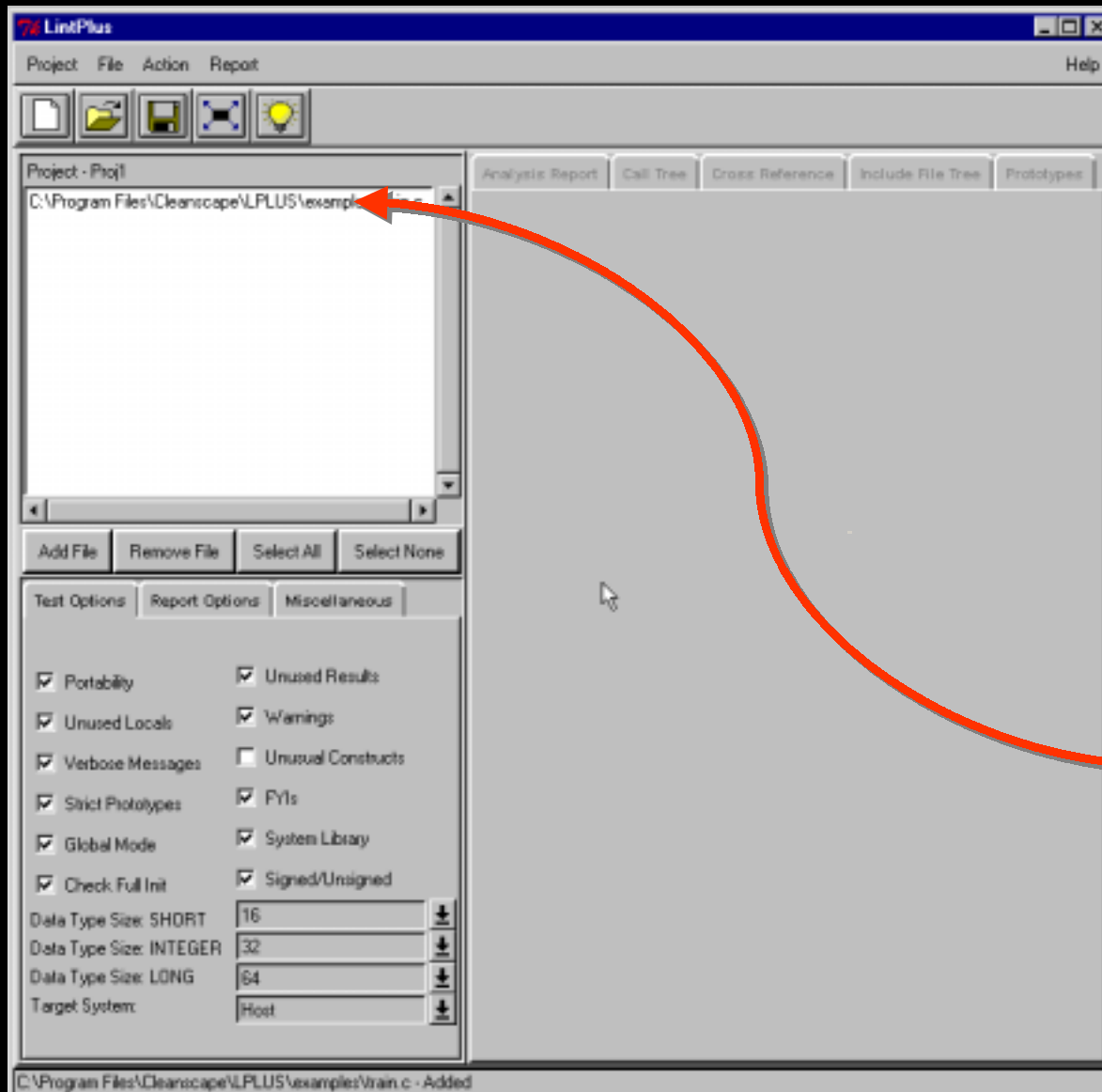
♦ **Select file(s) to be analyzed**
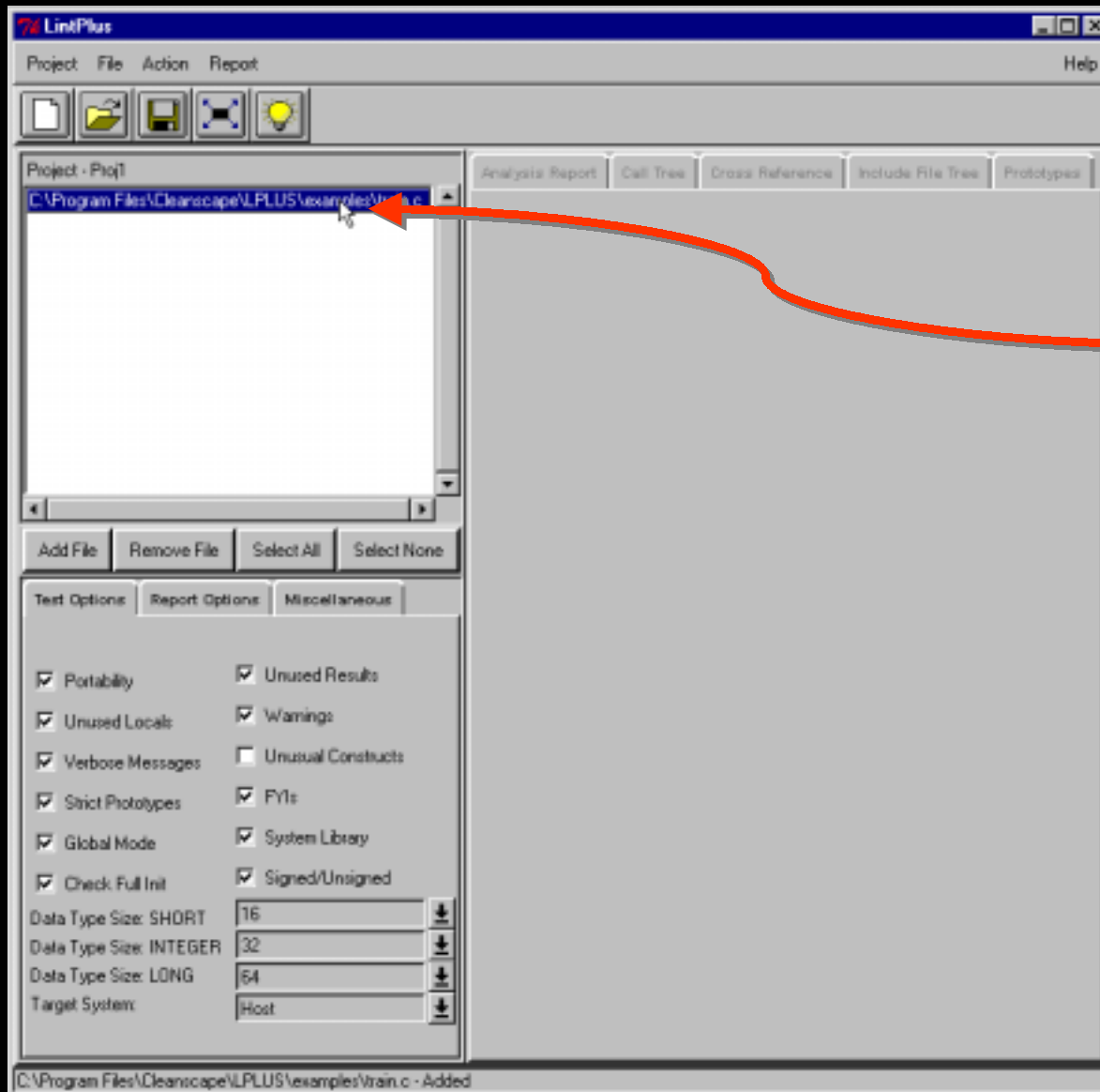
Add File to Project

♦ **Press "Add File"**
  - ♦ Or select:
    File > Add file

♦ **Select file(s) to be analyzed**

♦ **Click "Open"**

Add File to Project
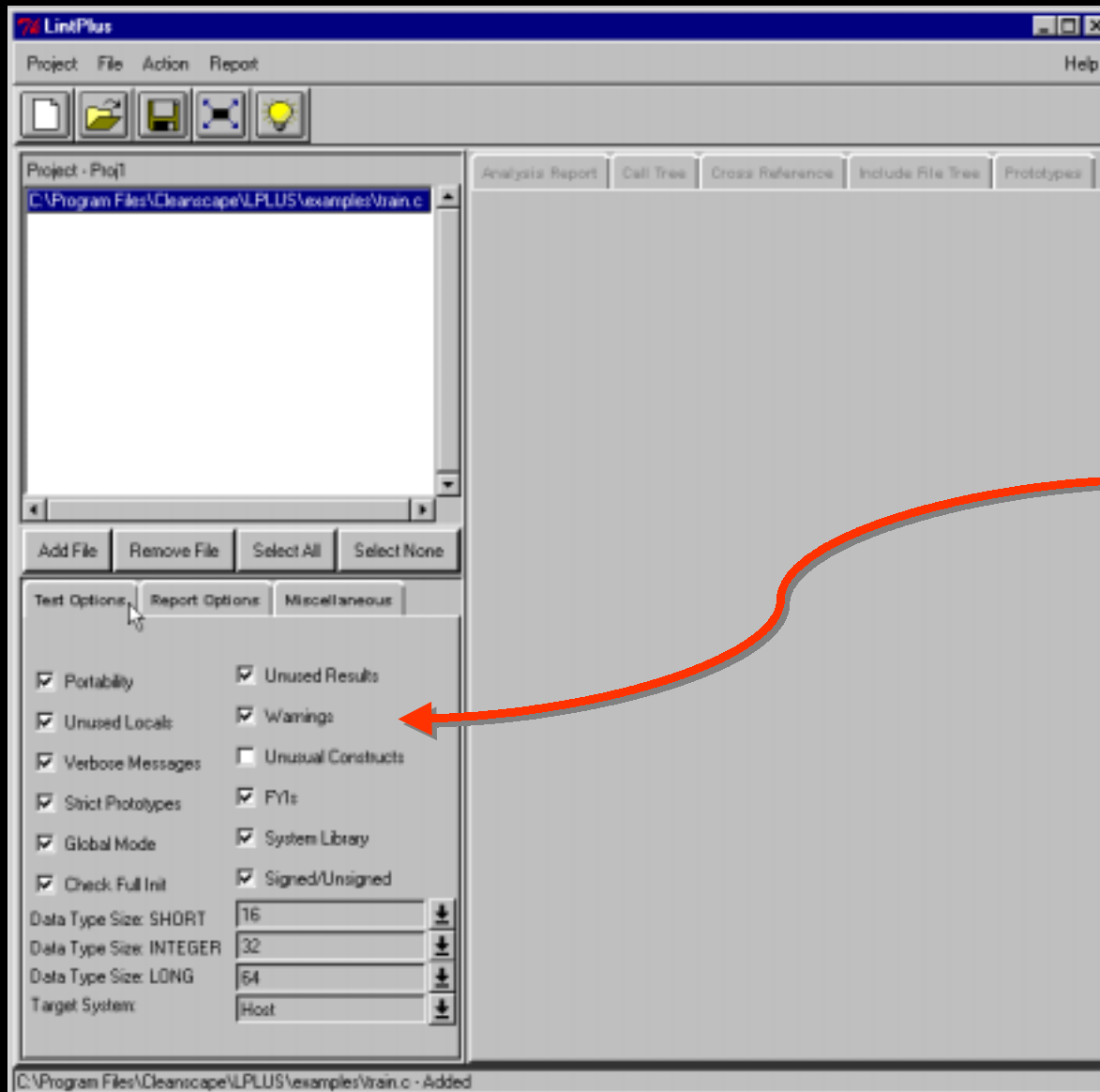
- ♦ **Press "Add File"**
    - ♦ Or select:
      File > Add file

- ♦ **Select file(s) to be analyzed**

- ♦ **Click "Open"**

- ♦ **View the project files in Project window**
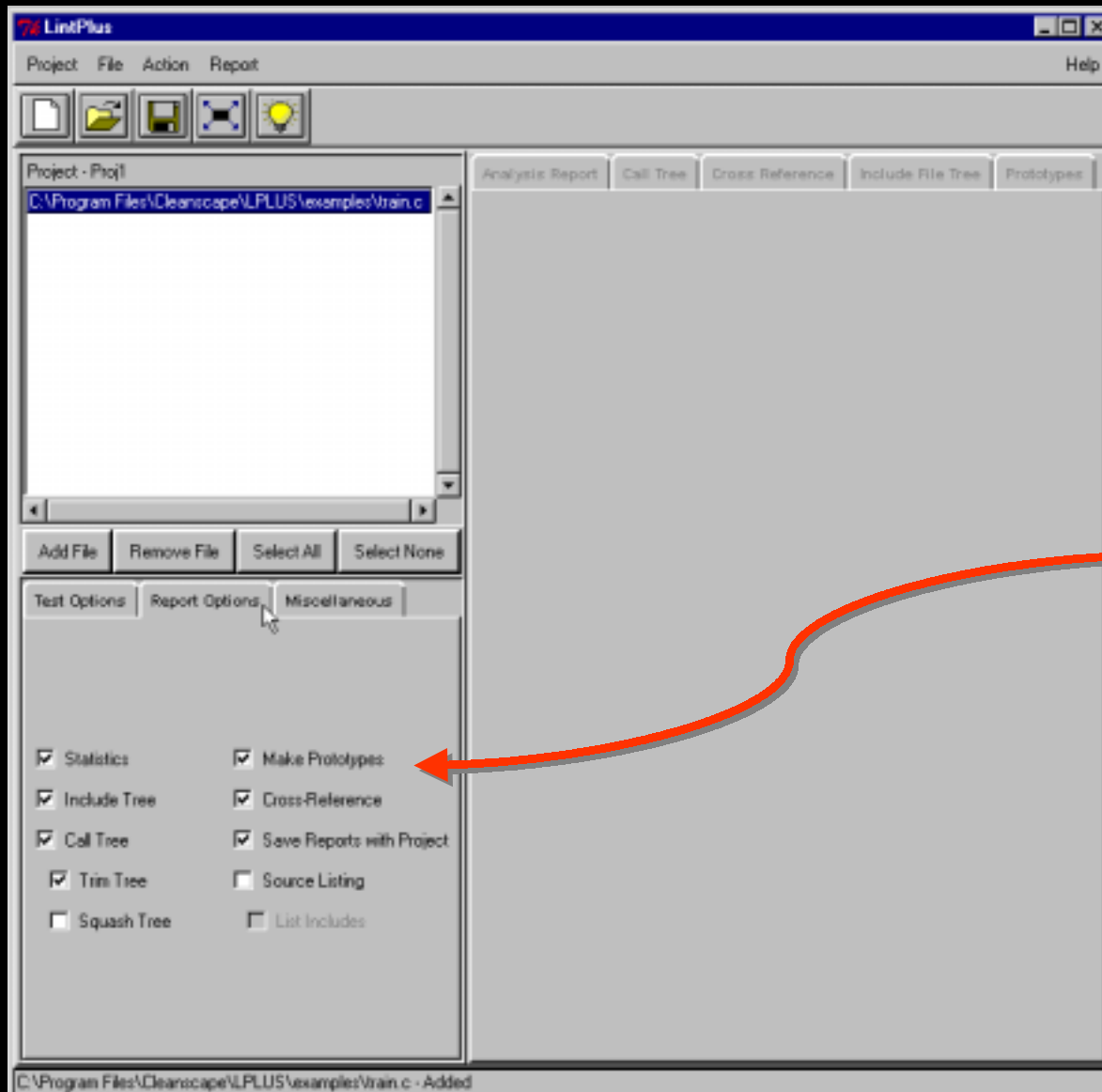
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Analyze your source file(s)

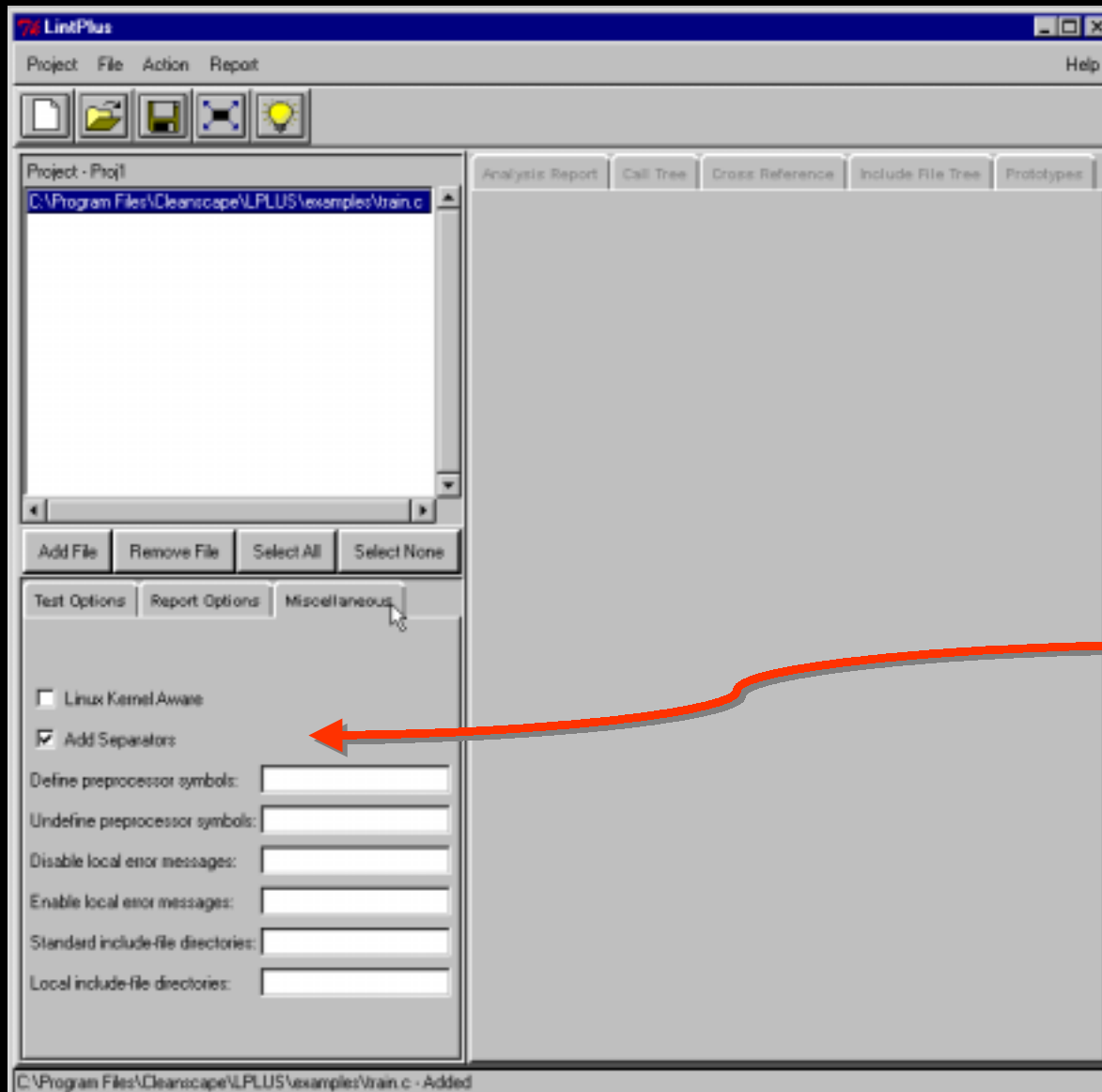♦ **Select source file(s) to be analyzed**

Analyze your source file(s)

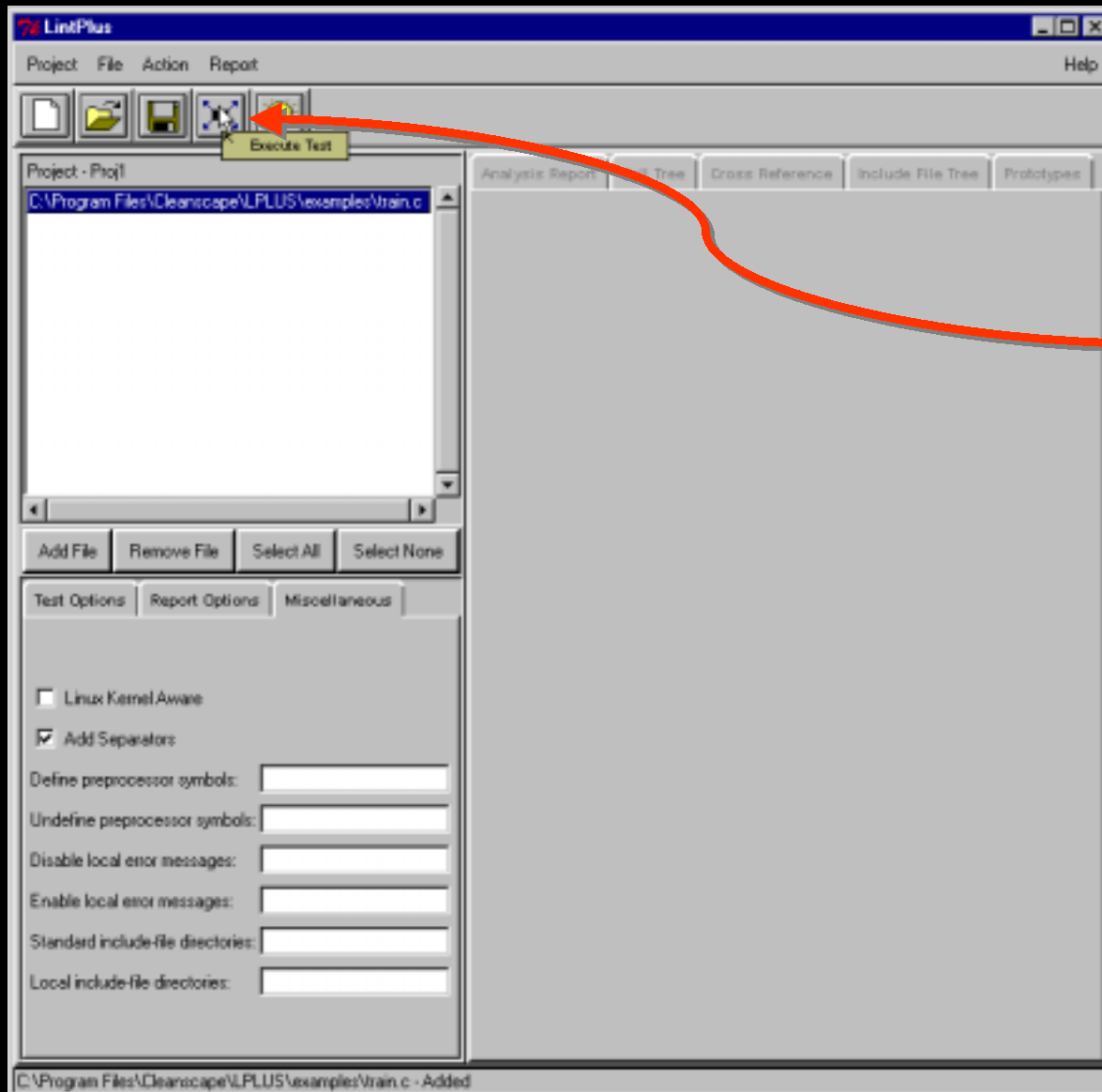♦ **Select source file(s) to be analyzed**

♦ **Select Test Options**

Analyze your source file(s)

♦ **Select source file(s) to be analyzed**

♦ **Select Test Options**
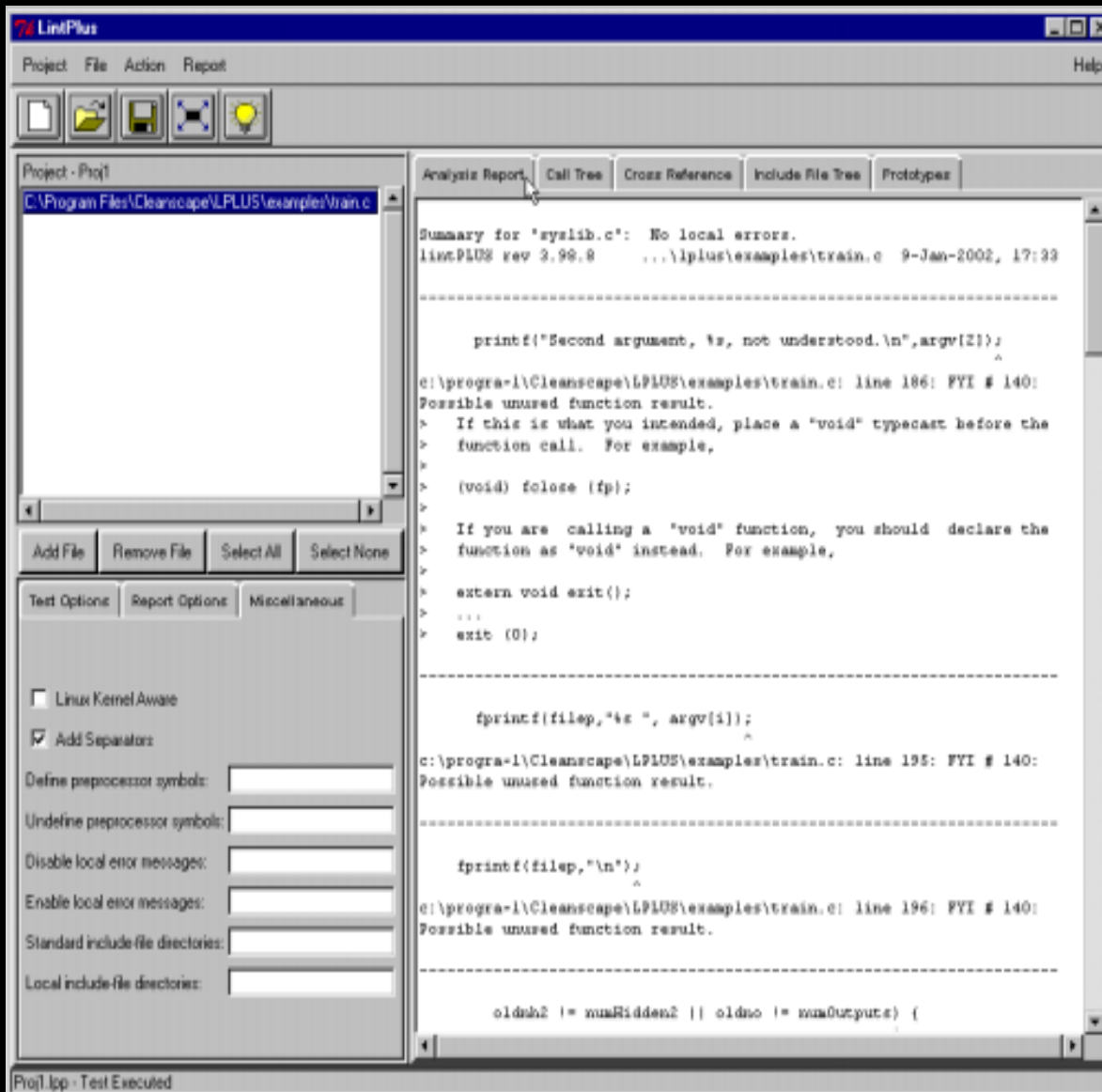
♦ **Select Report Options**

Analyze your source file(s)

♦ **Select source file(s) to be analyzed**

♦ **Select Test Options**

♦ **Select Report Options**

♦ **Select Miscellaneous Options**

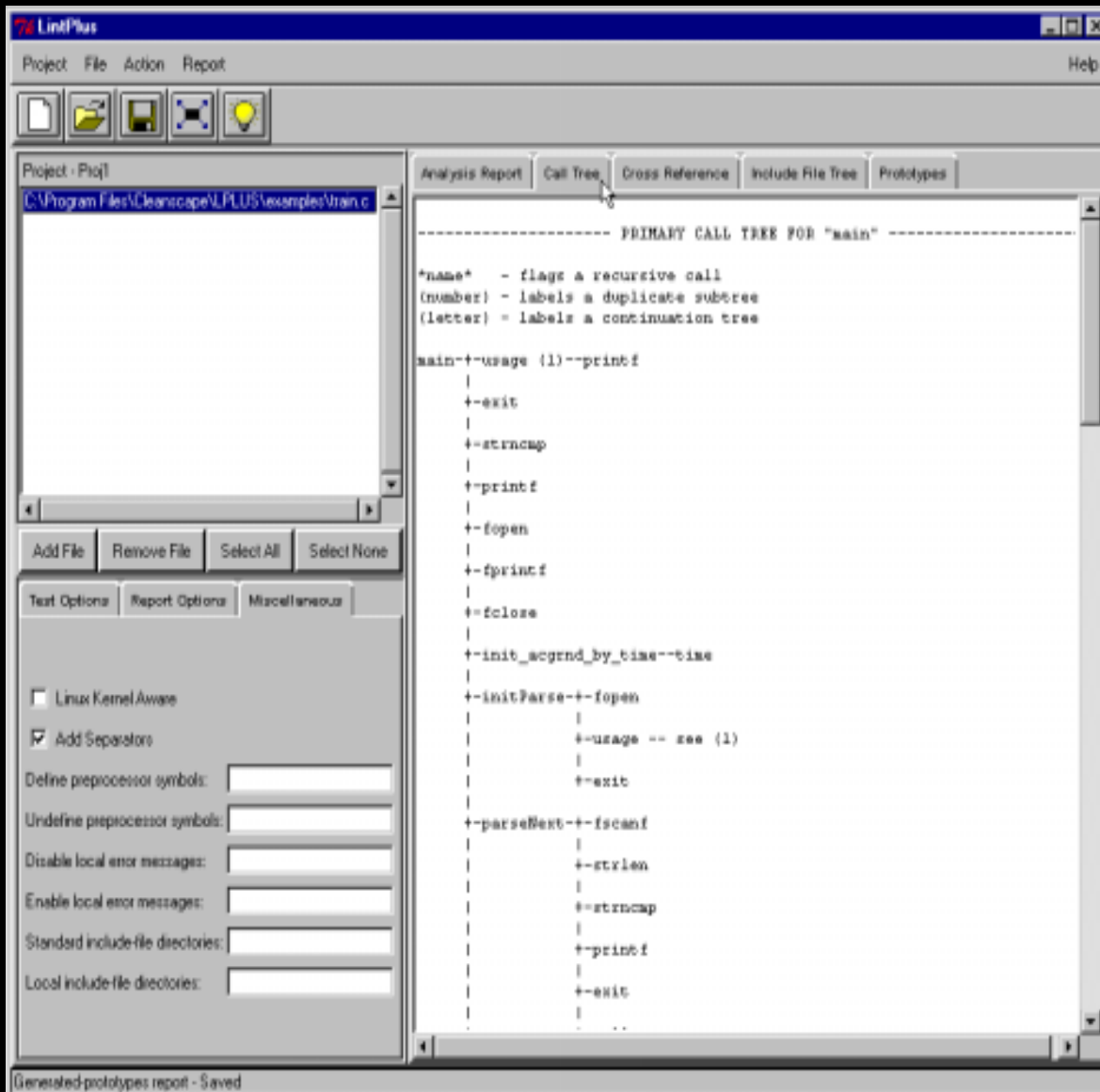# Execute test

♦ **Push Execute Test button**

Execute test

♦ **Push Execute Test button**

♦ **Don't blink!**
- ♦ Almost instantaneous processing for 100,000 lines of code
- ♦ A few seconds for 1 million lines of code

View Reports

▶ **Analysis Report**

♦ **Call Tree Report**

♦ **Cross Reference Report**

♦ **Include File Trees Report**

♦ **Prototypes Report**

View Reports

♦ **Analysis Report**

▶ **Call Tree Report**

♦ **Cross Reference Report**

♦ **Include File Trees Report**

♦ **Prototypes Report**

View Reports

- ♦ **Analysis Report**
- ♦ **Call Tree Report**
- ▶ **Cross Reference Report**
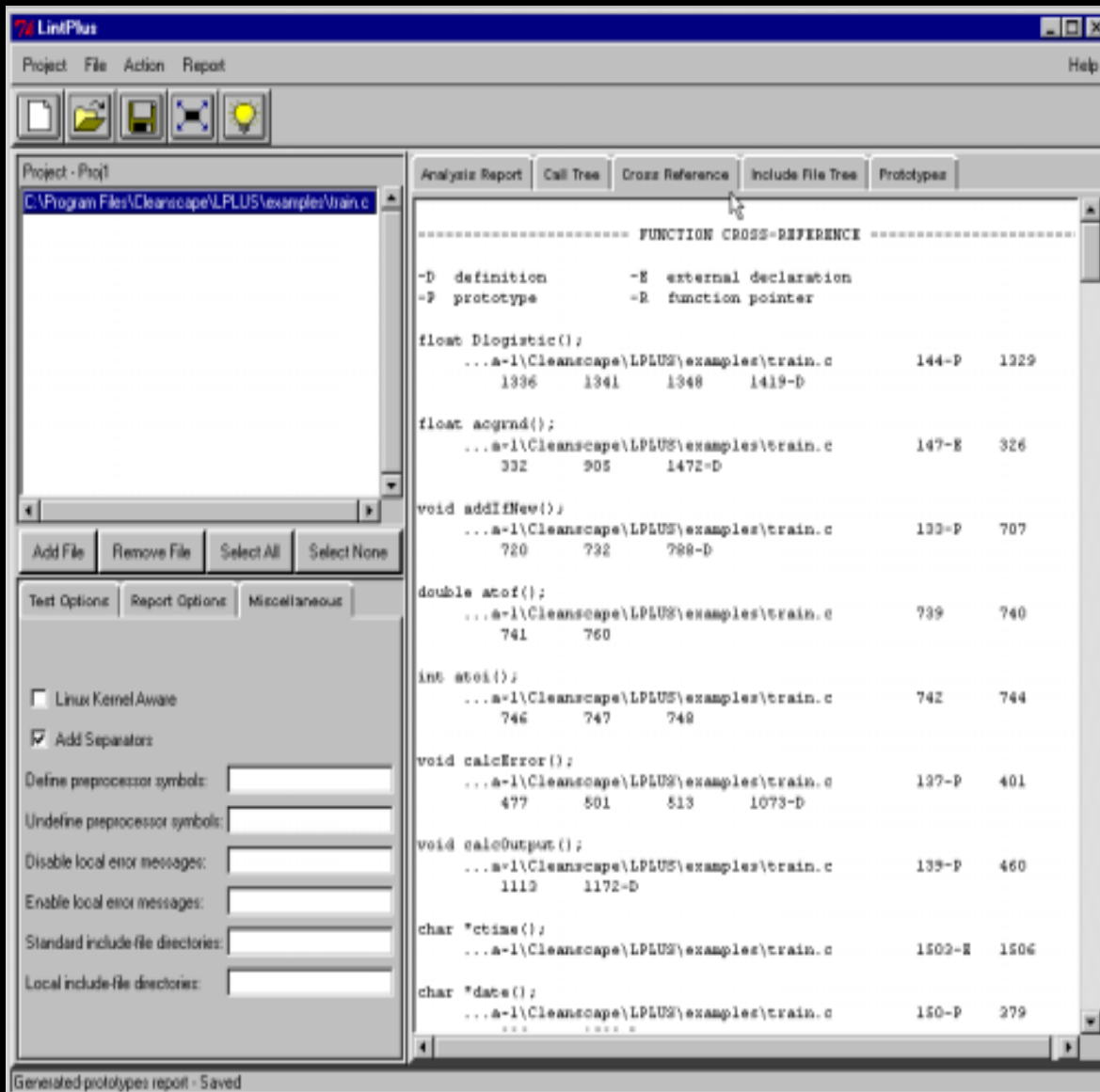- ♦ **Include File Trees Report**
- ♦ **Prototypes Report**

View Reports

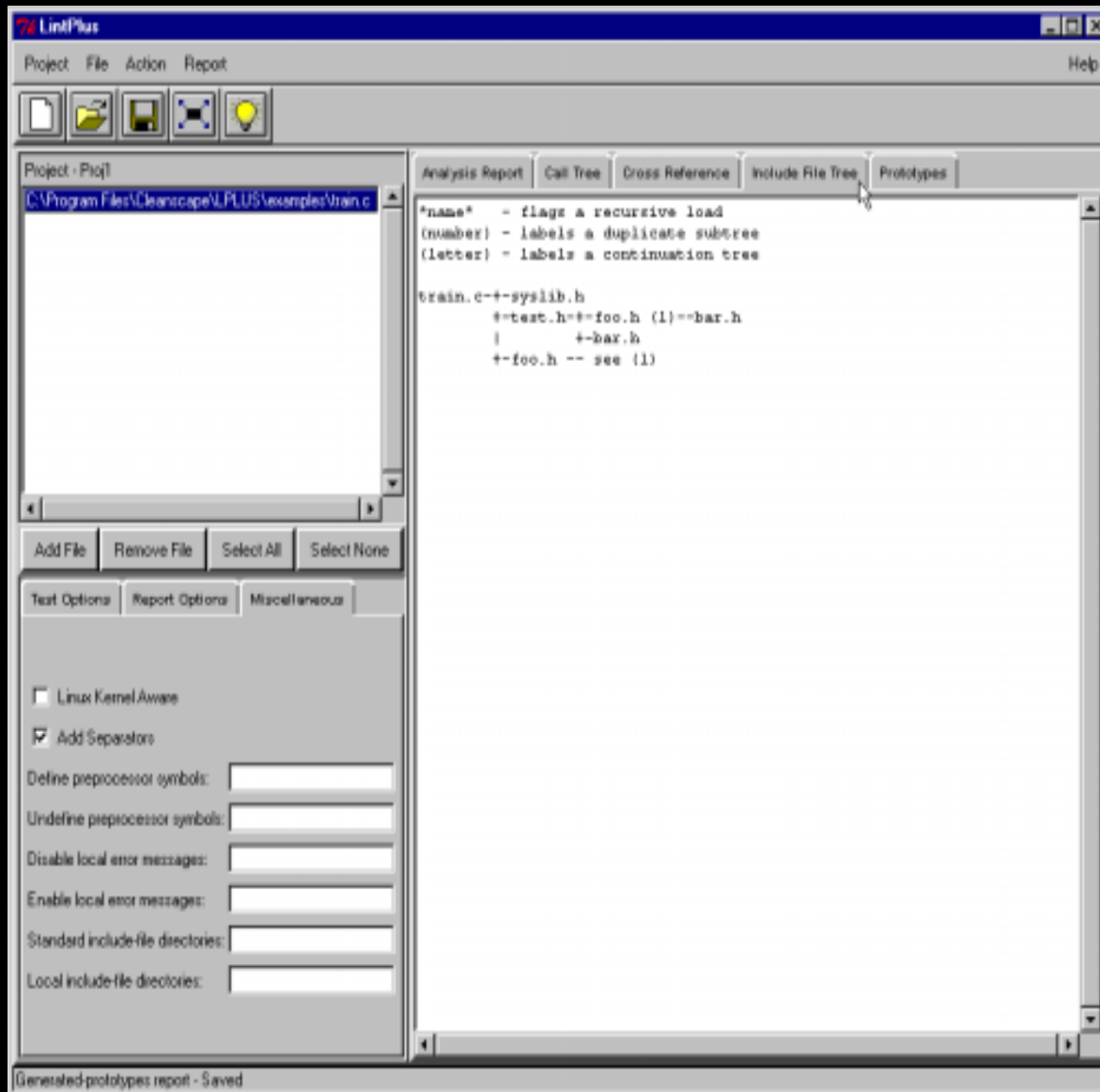♦ **Analysis Report**

♦ **Call Tree Report**

♦ **Cross Reference Report**

▶ **Include File Trees Report**

♦ **Prototypes Report**

View Reports

- ♦ **Analysis Report**
- ♦ **Call Tree Report**
- ♦ **Cross Reference Report**
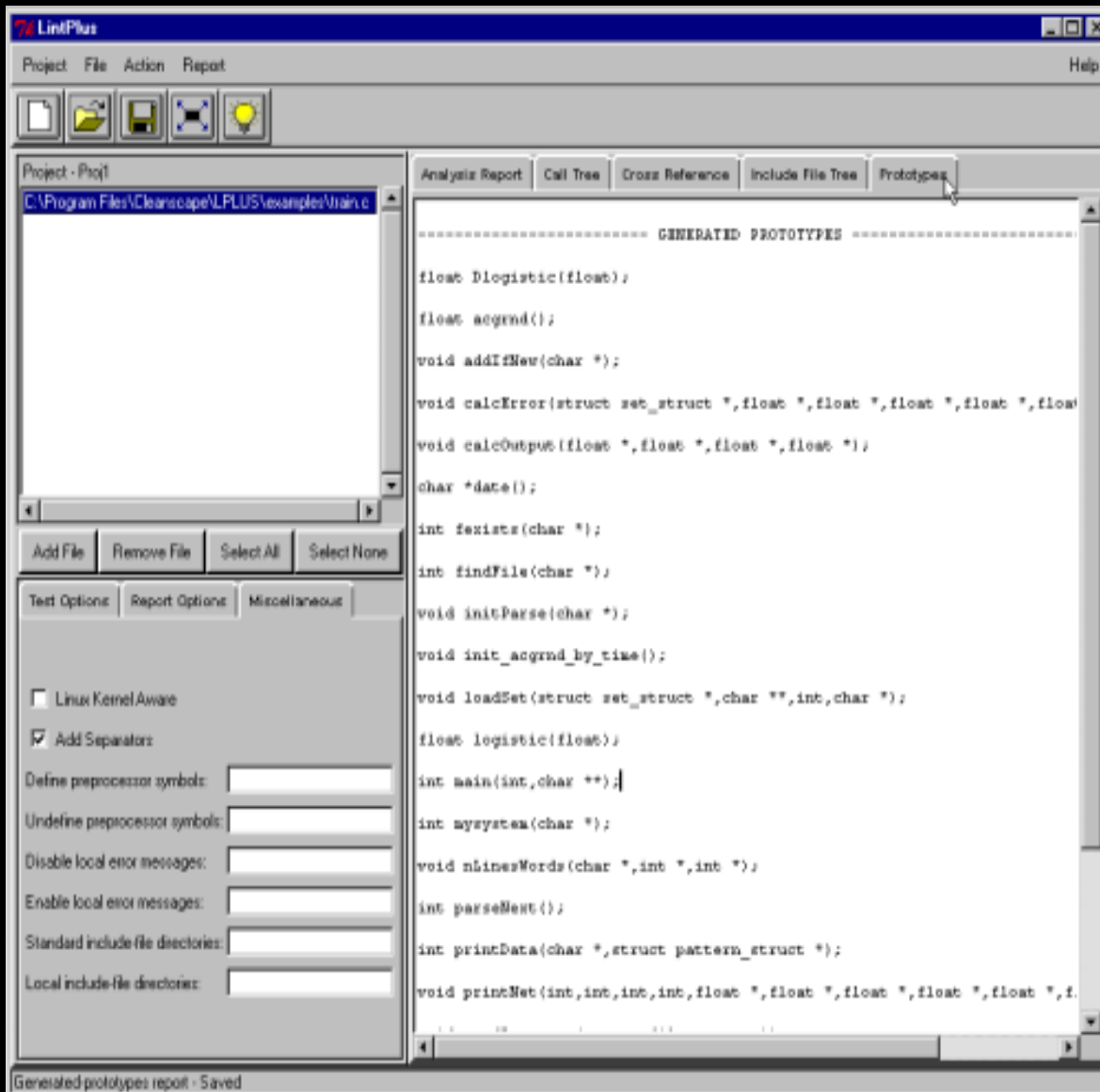- ♦ **Include File Trees Report**
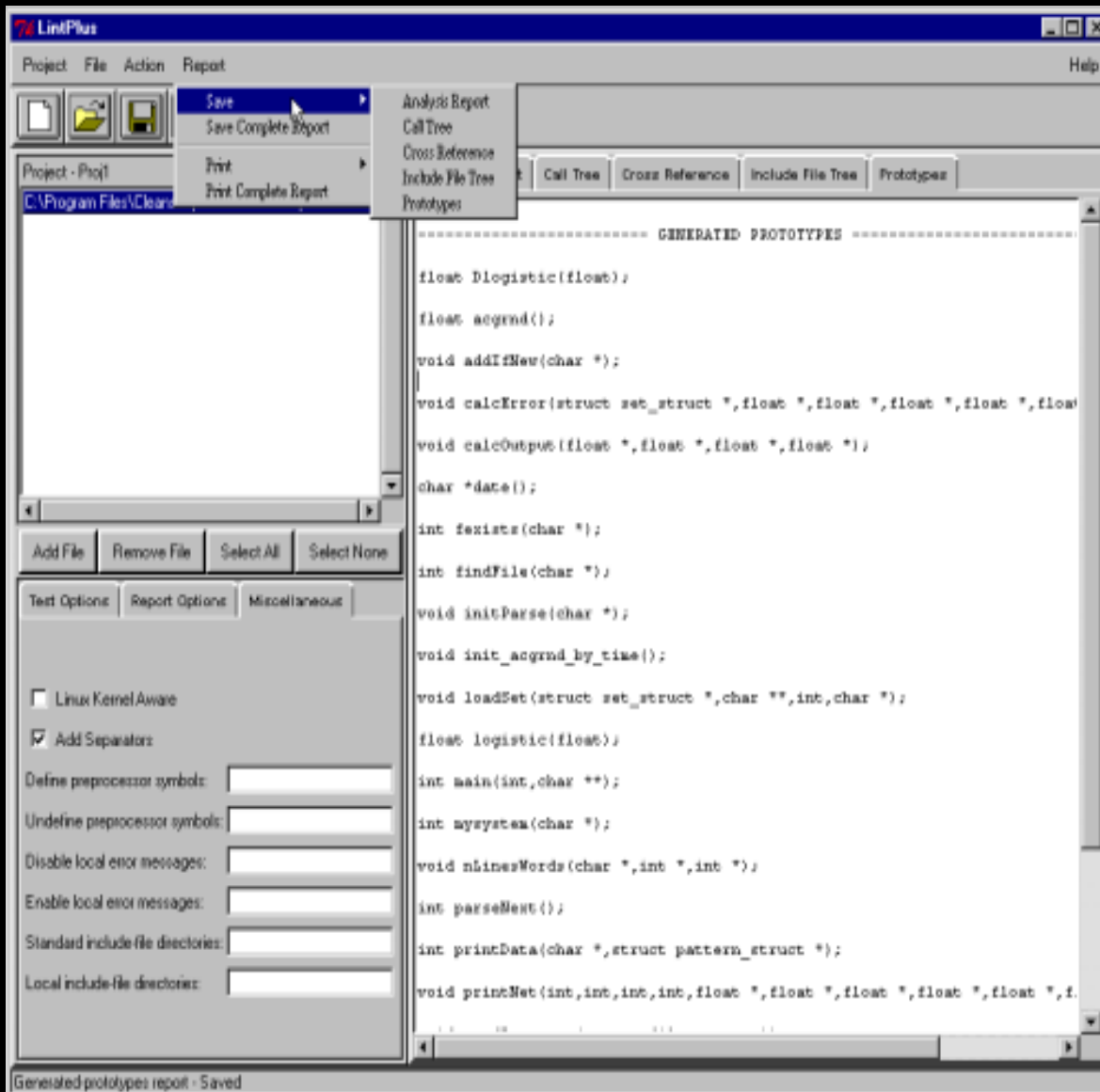- ▶ **Prototypes Report**

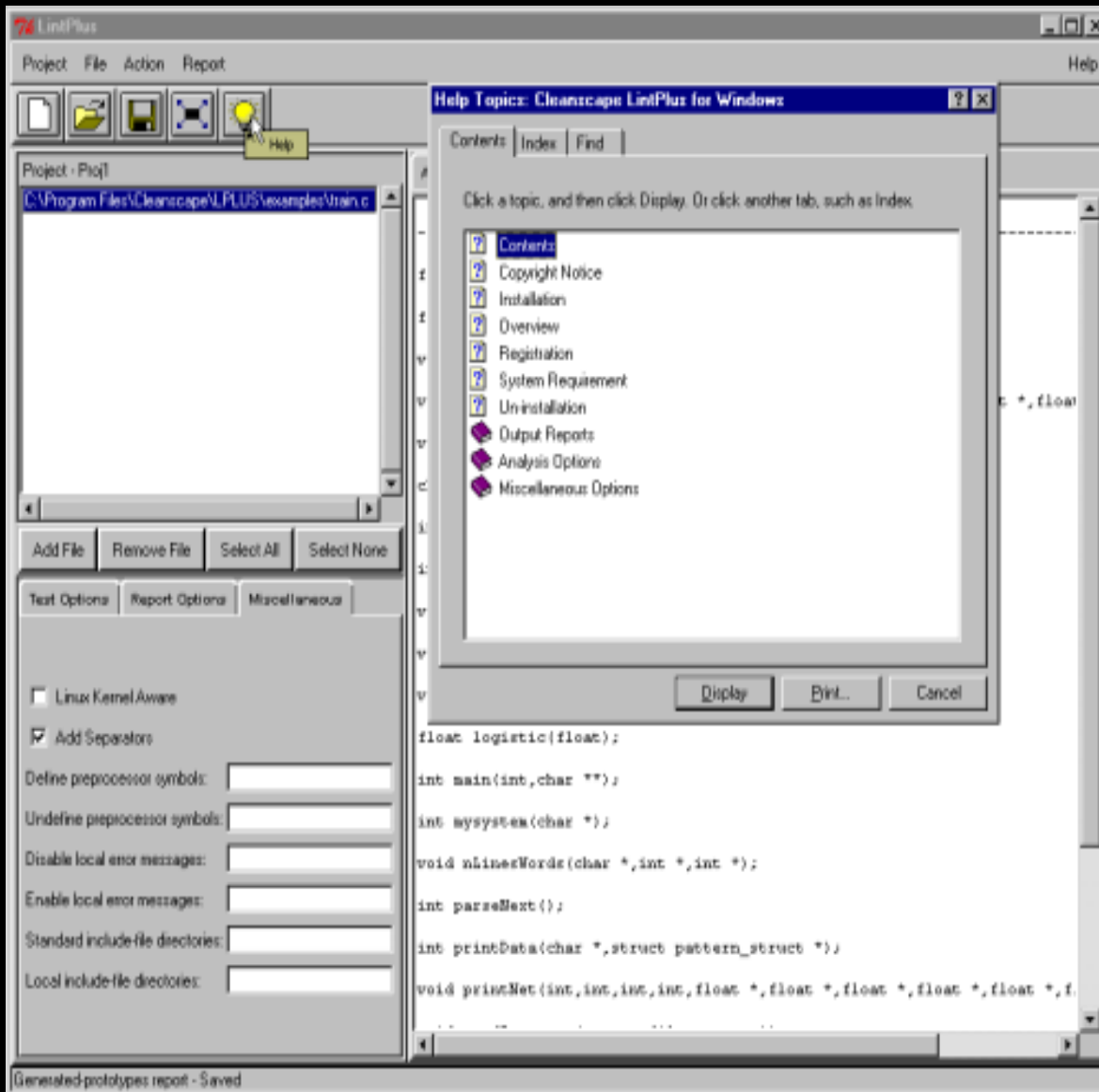# Save & Print Reports

♦ **Save**
  ♦ Select Report > Save
    · Select each report separately
    · Save complete report

♦ **Print**
  ♦ Select Report > Print
    · Print each report separately
    · Print complete report

Get help

♦ **Online Help**
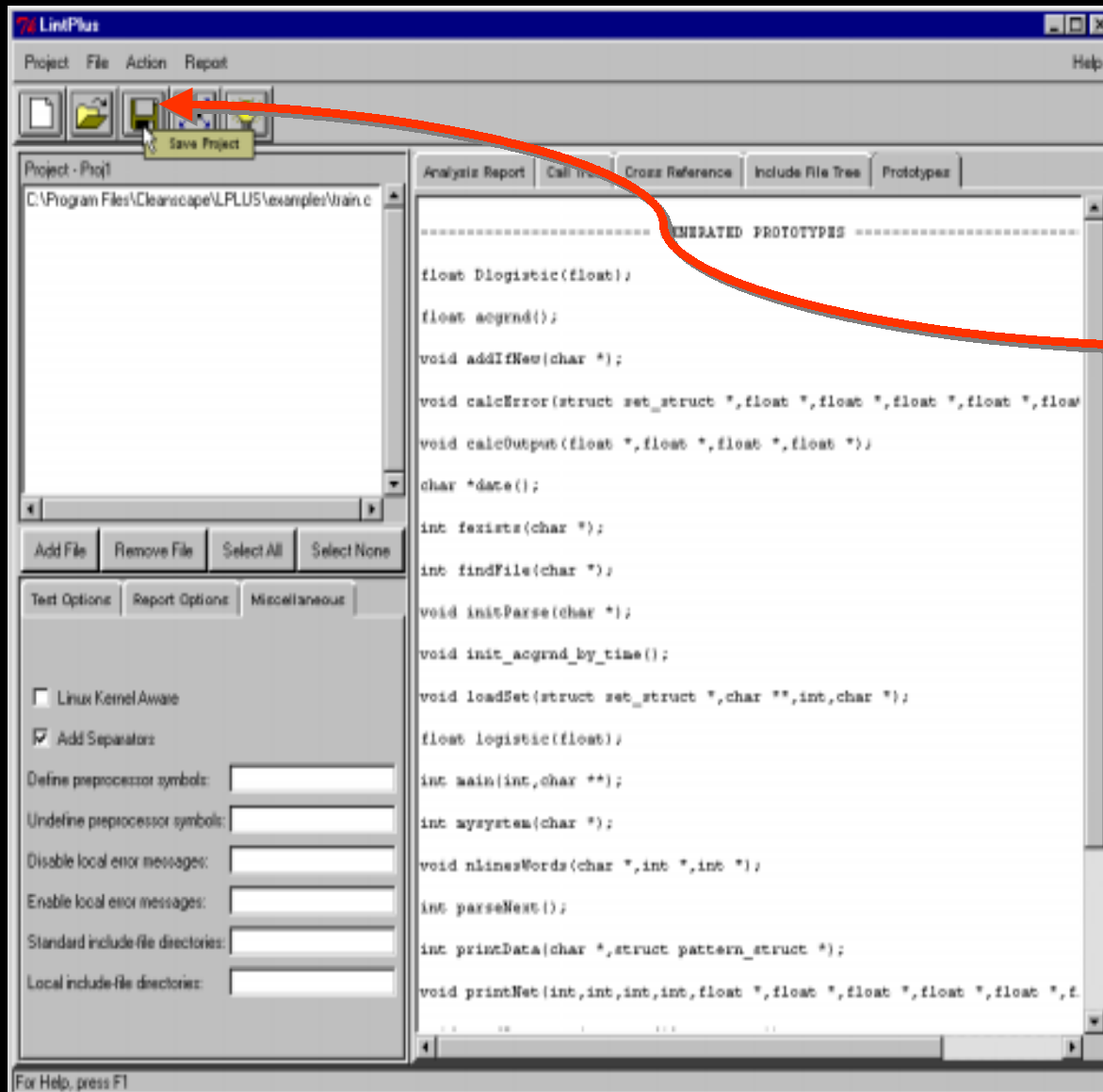 ♦ Push Help button

♦ **Documentation**
  ♦ Getting Started Guide
  ♦ User Guide
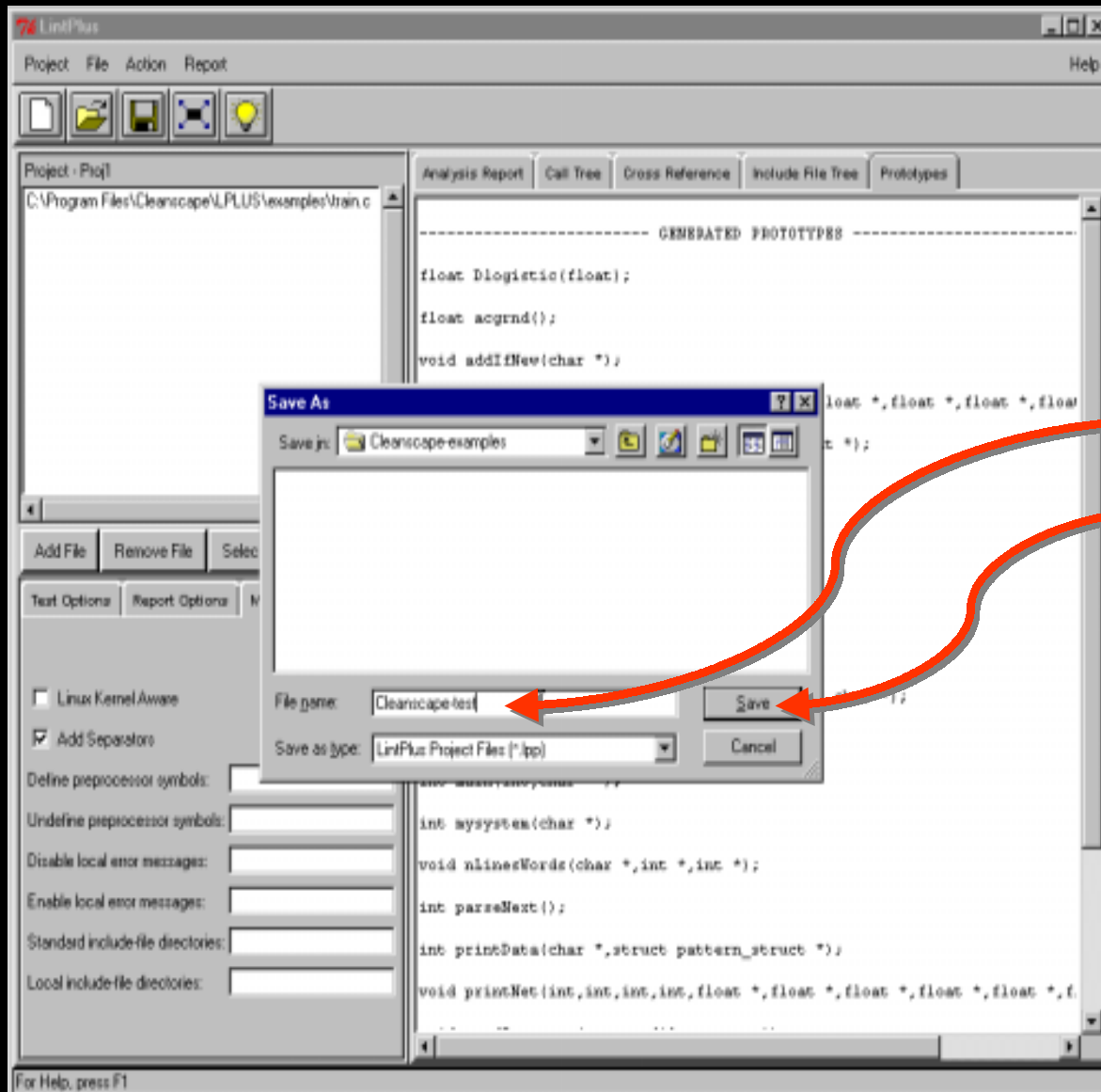 ♦ Tutorial

♦ **Support**
  ♦ http://www.cleanscape.net

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Save your project

♦ **Push Save button**

♦ **Type project name**

♦ **Push Save**

Save your project

♦ **Push Save button**

♦ **Type project name**

♦ **Push Save**

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Software Development Powerfully Simplified

- Code: Automatically generate code from patterns

- Analyze: Stop problems at the source

- Test: Test and visualize software

- Manage: Automate the software development process

http://www.cleanscape.net

LintPlus

- **Gives you advanced Static Source Code Analysis for C**

- **Helps you catch problems in source code to**
  - Develop faster, better, smarter, cheaper, cleaner
  - Reduce risk

- **Is ideal for:**
  - Packaged software development
  - Cross-platform development
  - Embedded systems development