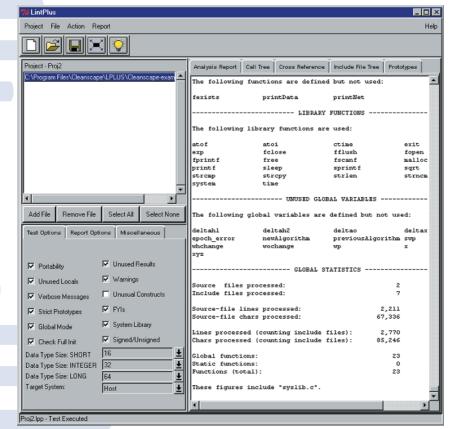
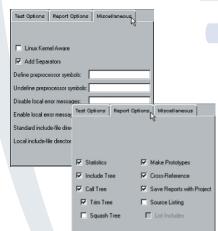
Cleanscape LintPlus 5

Static Source Code Analyzer for C

Key Features & Benefits

- Catches problems at the source code level
- · Speeds debugging
- Facilitates maintenance of large C applications
- Enforces coding standards within a programming group
- · Increases application portability
- · Maps out unfamiliar programs
- Detects bugs that typically pass through compilers
- Documents code
- Automatically generates call trees & cross-references
- · Intuitive graphical interface New!
- · Advanced GNU support New!
- Enhanced embedded environments support — including a Windows host. New!
- Expanded reporting options New!
- Cross-platform support: Unix, Linux, Windows New!





Cleanscape LintPlus provides advanced test and report options that can cut hundreds of hours from code debugging and documentation for C software projects Cleanscape LintPlus is a static source code analysis tool for ANSI C that reduces your organizational exposure to risks from latent software problems by automatically identifying problems at their source — in the C code prior to compiling or executing programs. From its first use, this venerable C source code analysis tool can save you hundreds of hours in code debugging, greatly reducing resources required for C testing efforts. Cleanscape LintPlus rigorously examines source files both individually and as a group, almost instantly generating comprehensive userdefinable reports on hundreds of problems that are readily accepted by a typical compiler.

Cleanscape LintPlus is ideal for C development environments that have

tight deadlines for producing high quality output, and includes enhanced support for:

- Cross-platform development
- · Embedded systems development
- GNU development

This advanced source analysis tool provides improved work-flow for every step in the development process and is particularly beneficial for programmers, program managers, and QA managers. Cleanscape LintPlus also provides project managers with coding standards enforcement and statistical quality control measures by detecting noncompliance with codified style standards, by detecting maintenance or portability problems and by computing customized quantitative indicators of code size, complexity, and density.

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Static Source Code Analysis Tool for C

Features

Feature	Description	Command Line	GUI	OnLine
REPORTS				
Analysis	Describes problems found	-	_	-
Call Tree	Shows "calling" structure of analyzed code	•	•	•
Cross Reference	Shows a symbol table cross reference		÷	
Include File Tree	Generates include file trees that show nesting structure of include files used by input code	•	•	-
Prototypes	Identifies prototypes for most 'C' functions			
TEST OPTIONS				
Check full initialization	Reports incomplete initialization of arrays or structures	•	•	
FYIs	Generates "informational" messages in addition to warnings and error messages			
Global mode Portability	Checks source files as a group of problems Checks for general portability issues			
Unused locals	Report unused local variables	•	•	•
VERBOSE	Adds extended descriptions to messages	•	•	-
Strict prototypes	Adds a section to the main analysis report which lists "unprototyped" function calls	•	•	
Unused results	Report unused function call results			- :
Unusual constructs	Reports valid but unusual constructs, such as passing structures by value	-	-	-
SIGN	Control signed/unsigned checking	•	•	
System Library	Check calls to system library routines	-	•	-
Target System Warnings	Select a target system Generates warnings			-
REPORT OPTIONS	Ocherates warrings			حرَّ
Call Tree	Enable/Disable Call Tree Report	•	•	
Trim Branches	Merges redundant sub trees in Call Tree	•	•	•
Cross Reference	Enable/Disable Cross Reference Report		•	- :
Include File Trees	Generates include file trees showing nesting structure of the "include" files			
Make Prototypes	Generates prototypes for the 'C' functions defined in the input files	•	•	•
Pad Tree	Adds white space to call trees produced	•	•	-
Source Listing	Adds a source listing to the main analysis report; shows errors in context	•	_	•
List Includes	Generates a source listing with "include" file			
Statistics MISCELLANEOUS OPTION	Adds a "statistics" section to analysis report			-
Linux Kernel Aware	Required for kernel aware Linux program	-		
Add separators	Add separators before error messages	-	•	-
DEFINE	Define a preprocessor symbol		•	-
UNDEFINE DISABLE	Un define a preprocessor symbol Disable specific local error messages			-
ENABLE	Enable specific local error messages	-	-	-
STANDARD	Add standard include file directories		•	-
Local mode	Adds local include file directories	•		-
OTHER ANALYSIS OPTIC				
ALL ARCHAIC	Combine several options Allow "archaic" initialization statements		- :	-
BEEP	Control audible output	-	-	-
BRIEF	Skip repeated local error messages	•	-	
FULLINIT	FULLINIT Report incomplete initialization X Change the call tree graphics characters	_	•	_
GRAPHICS HTREE	Change the call tree graphics characters Generate "include file" trees		•	•
LIST	Generate source code listings		•	
MAXERROR	Set max. number of local errors per module		-	-
MAXFATAL MAXGSE	Set max. number of fatal errors per run Enable "FYI" (informational) messages		-	-
NITPICK	Report valid but unusual constructs			-
PAGE	Control pagination	•	-	-
PORT	Control portability checking	- :		
PROTO RESULTS	Generate C prototypes or FORTRAN shells Check for unused function call results			
SILENT	Disable progress messages	-	-	-
Snolocal	Doesn't search -I directories for "standard"	•	•	-
Snohost	Doesn't search the host system's standard- include directories	•	•	-
STRICT	Add extra checks to "global mode"	-	•	•
SYSTEM UNUSED	Select a target system Report unused local variables		•	-
Unused results	Report unused local variables Report unused function call results			•
Unusual constructs	Reports valid but unusual constructs, such as passing structures by value	•	•	•
XREF	Generate a cross reference		_	

Specifications

Classification

· Static Source Code Analyzer for C

Programming languages

ANSI C

Interface

- Graphical User Interface New!
- · Command-line interface

Development Platforms

- Microsoft Windows New!
 All 32-bit systems
- Unix
 - AIX: 3.X and 4.X on IBM RS/6000 based systems
 - Tru64 / DecUnix: Compaq/Digital UNIX 3.X and 4.X on Alpha
 - HP/UX: 9.X, 10.X and 11.X on HP 9000 /700 and /800
 - SGI IRIX: 5.3+ and 6.X on SGI
 - SUN: Solaris 1.X (SunOS 4.X) and Solaris 2.X (SunOS 5.X)
- Linux
- Intel and Alpha systems, including: Linux, Red Hat, Debian, Etc.

Embedded Environments

- · Microtec Research ANSI C
- Plessey ARM
- Wind River Diab
- Microsoft Visual C
- Windows CE
- VxWorks
- Metrowerks
- Other generic systems
- Others added upon request



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