Xandrian Research

DL-Pascal — Project Catalog | Draft for editorial review

Subject	Description
Regression Testing	
cov01.pas	Tests scalar types, numeric ranges, constants, conversions, arithmetic, relational and Boolean operators. Results: cov01.log
cov02.pas	Exercises conditional statements, loops, CASE selection, GOTO, nesting and control-flow edge cases. Results: cov02.log
cov03.pas	Tests procedures and functions, value and VAR parameters, recursion, forward declarations and callable variables. Results: cov03.log
cov04.pas	Covers string length, concatenation, copying, insertion, searching, conversion, comparison and manipulation. Results: cov04.log
cov05.pas	Exercises arrays, multidimensional indexing, records, nested records, WITH and structured-data algorithms. Results: cov05.log
cov06.pas	Tests mathematical functions and identities; documents known DL-Pascal 1.2 defects and attempted workarounds. Results: cov06.log
cov07.pas	Exercises the CRT unit: formatted output, cursor and window operations, graphics, sound and timers; skips interactive input. Results: cov07.log
cov08.pas	Tests heap allocation, typed and untyped pointers, dereferencing, address operations, linked lists and SizeOf. Results: cov08.log
cov09.pas	Covers sets and membership operations, text and typed files, file positioning, renaming and deletion. Results: cov09.log
cov10.pas	Tests user-defined units using MATHTOOL: constants, functions, types, initialization and cross-unit calls. Results: cov10.log
cov11.pas	Deep CRT coverage of text/graphics buffers, plotting, lines, display modes, timing and output formatting. Results: cov11.log
cov12.pas	Explores near/far pointers and segment addressing, plus absolute memory across ROM and RAM banks. Results: cov12.log
Supporting Files — Regression Testing	
MATHTOOL.int	Interface declaration for the MathTool unit used by cov10.pas; defines exported constants, TStats, CallCount, and routines. Compile before MATHTOOL.pas; produces MATHTOOL.UNI.
MATHTOOL.pas	MathTool unit implementation used by cov10.pas; supplies arithmetic, primality, factorial, GCD, and statistical operations. Compile after MATHTOOL.int. The source names MATHTOOL.OLE as its output; the batch script deletes MATHTOOL.DLE.
cov.bat	Batch driver that compiles and runs the twelve coverage programs and handles regression logs and generated executables. For cov10, it compiles MATHTOOL.int and MATHTOOL.pas before cov10.pas.

The linked regression logs record observed results, including individual failures. Descriptions summarize the supplied test programs and are intended for editorial revision.

Additional DL-Pascal sections and curated Linux examples will be added later.