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## Introduction

Open C library covers more than 75% of the functions contained in the desktop and server standards on which the mobile libraries are based. The implementation includes 100% coverage of libraries containing such mobile-critical features as password hashing (libcrypt), compression (libz), and loading DLLs (libdl).

The provided Open C libraries do not provide any UI functionality. The S60 UI framework has to be used if you want to provide UI to your application.

## Libraries

### libc

**Description:** The Standard C libraries include standard input/output routines, database routines, bit operators, string operators, character tests and character operators, Data Encryption Standard (DES) encryption routines, storage allocation, time functions, and signal handling.

## Open\_C\_library

**Open source project:** OpenBSD (POSIX APIs)

**Functions in standard/original implementation:** 782

**Functions Implemented:** 367

## libcrypt

**Description:** The cryptography libraries contain functions for encrypting blocks of data, messages, and password hashing.

**Open source project:** OpenSSL

**Functions in standard/original implementation:** 3

**Functions Implemented:** 3

## libcrypto

**Description:** The services provided by this library are used by the OpenSSL implementations of Secure Sockets Layer (SSL), Transport Layer Security (TLS), and S/MIME, and they have also been used to implement SSH, OpenPGP, and other cryptographic standards.

**Open source project:** OpenSSL

**Functions in standard/original implementation:** 3000

**Functions Implemented:** 2304

## libdl

**Description:** This is for loading DLLs.

100% functions implemented

## libglib

**Description:** This general-purpose utility library provides, for example, many useful data types, macros, type conversions, string utilities, file utilities, and a main loop abstraction. It works on many UNIX-like platforms, Windows, OS/2, and BeOS.

**Open source project:** GNOME

**Functions in standard/original implementation:** 1561

**Functions Implemented:** 1201

## libm

**Description:** The arithmetical and mathematical functions operate according to the Standard C library.

**Open source project:** OpenBSD (POSIX APIs)

**Functions in standard/original implementation:** 299

**Functions Implemented:** 126

## libpthread

**Description:** This implements IEEE Std1003.1c (POSIX) standard interface for implementing multiple threads of execution within a traditional user process. It includes thread creation and destruction, an interface to the thread scheduler to establish thread scheduling parameters, and mutex and condition variables to provide mechanisms for the programmer to synchronize access to shared process resources.

**Open source project:** OpenBSD (POSIX APIs)

**Functions in standard/original implementation:** 94

**Functions Implemented:** 56

## libssl

**Description:** The OpenSSL library implements SSL v2/v3 and TLS v1 protocols.

**Open source project:**OpenSSL

**Functions in standard/original implementation:**236

**Functions Implemented:** 204

## libz

**Description:** The ?zlib? compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data.

**Open source project:**LIBZ

**Functions in standard/original implementation:**43

**Functions Implemented:** 43

## Links

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