

MatrixSSL Porting Guide

This document discusses porting MatrixSSL to additional operating systems and platforms. MatrixSSL has been ported to over 20 CPU/OS combinations and runs on platforms from 8 to 64 bits, big and little endian. Compatibility testing is done against multiple independent SSL implementations.

External API Requirements

Memory Allocation

malloc() MatrixSSL includes support for deterministic memory
free() allocation. This ensures that all MatrixSSL locations take
place within a single block of memory, preventing
leaks and fragmentation, and greatly reducing the possibility of
buffer overruns. MatrixSSL can be compiled to support one
memory block per session, or operate entirely out of static
memory. With the 7600 system, it is possible to
allocate memory dynamically.

Memory Operations

memcmp()
memcpy()
memset()

abort()

replaced by other mechanisms of error reporting.

