

#### vul\_files\_87 Scan Report

Project Name vul\_files\_87

Scan Start Thursday, January 9, 2025 2:46:39 PM

Preset Checkmarx Default
Scan Time 01h:36m:03s
Lines Of Code Scanned 294174

Files Scanned 22

Report Creation Time Thursday, January 9, 2025 5:12:46 PM

Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50081

Team CxServer
Checkmarx Version 8.7.0
Scan Type Full
Source Origin LocalPath

Density 4/10000 (Vulnerabilities/LOC)

Visibility Public

## Filter Settings

**Severity** 

Included: High, Medium, Low, Information

Excluded: None

**Result State** 

Included: Confirmed, Not Exploitable, To Verify, Urgent, Proposed Not Exploitable

ΑII

Excluded: None

Assigned to

Included: All

**Categories** 

Included:

Uncategorized All
Custom All
PCI DSS v3.2 All
OWASP Top 10 2013 All
FISMA 2014 All
NIST SP 800-53 All
OWASP Top 10 2017 All

OWASP Mobile Top 10

2016

Excluded:

Uncategorized None
Custom None
PCI DSS v3.2 None
OWASP Top 10 2013 None
FISMA 2014 None



NIST SP 800-53 None

OWASP Top 10 2017 None

OWASP Mobile Top 10 None

2016

#### **Results Limit**

Results limit per query was set to 50

#### **Selected Queries**

Selected queries are listed in Result Summary

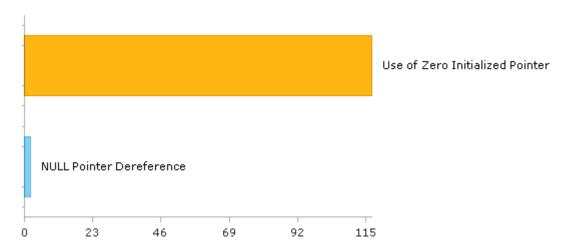


### **Result Summary**

#### Most Vulnerable Files



## Top 5 Vulnerabilities





# Scan Summary - OWASP Top 10 2017 Further details and elaboration about vulnerabilities and risks can be found at: OWASP Top 10 2017

Category	Threat Agent	Exploitability	Weakness Prevalence	Weakness Detectability	Technical Impact	Business Impact	Issues Found	Best Fix Locations
A1-Injection	App. Specific	EASY	COMMON	EASY	SEVERE	App. Specific	2	2
A2-Broken Authentication	App. Specific	EASY	COMMON	AVERAGE	SEVERE	App. Specific	0	0
A3-Sensitive Data Exposure	App. Specific	AVERAGE	WIDESPREAD	AVERAGE	SEVERE	App. Specific	0	0
A4-XML External Entities (XXE)	App. Specific	AVERAGE	COMMON	EASY	SEVERE	App. Specific	0	0
A5-Broken Access Control*	App. Specific	AVERAGE	COMMON	AVERAGE	SEVERE	App. Specific	0	0
A6-Security Misconfiguration	App. Specific	EASY	WIDESPREAD	EASY	MODERATE	App. Specific	0	0
A7-Cross-Site Scripting (XSS)	App. Specific	EASY	WIDESPREAD	EASY	MODERATE	App. Specific	0	0
A8-Insecure Deserialization	App. Specific	DIFFICULT	COMMON	AVERAGE	SEVERE	App. Specific	0	0
A9-Using Components with Known Vulnerabilities*	App. Specific	AVERAGE	WIDESPREAD	AVERAGE	MODERATE	App. Specific	0	0
A10-Insufficient Logging & Monitoring	App. Specific	AVERAGE	WIDESPREAD	DIFFICULT	MODERATE	App. Specific	0	0

<sup>\*</sup> Project scan results do not include all relevant queries. Presets and\or Filters should be changed to include all relevant standard queries.



# Scan Summary - OWASP Top 10 2013 Further details and elaboration about vulnerabilities and risks can be found at: OWASP Top 10 2013

Category	Threat Agent	Attack Vectors	Weakness Prevalence	Weakness Detectability	Technical Impact	Business Impact	Issues Found	Best Fix Locations
A1-Injection	EXTERNAL, INTERNAL, ADMIN USERS	EASY	COMMON	AVERAGE	SEVERE	ALL DATA	0	0
A2-Broken Authentication and Session Management	EXTERNAL, INTERNAL USERS	AVERAGE	WIDESPREAD	AVERAGE	SEVERE	AFFECTED DATA AND FUNCTIONS	0	0
A3-Cross-Site Scripting (XSS)	EXTERNAL, INTERNAL, ADMIN USERS	AVERAGE	VERY WIDESPREAD	EASY	MODERATE	AFFECTED DATA AND SYSTEM	0	0
A4-Insecure Direct Object References	SYSTEM USERS	EASY	COMMON	EASY	MODERATE	EXPOSED DATA	0	0
A5-Security Misconfiguration	EXTERNAL, INTERNAL, ADMIN USERS	EASY	COMMON	EASY	MODERATE	ALL DATA AND SYSTEM	0	0
A6-Sensitive Data Exposure	EXTERNAL, INTERNAL, ADMIN USERS, USERS BROWSERS	DIFFICULT	UNCOMMON	AVERAGE	SEVERE	EXPOSED DATA	0	0
A7-Missing Function Level Access Control*	EXTERNAL, INTERNAL USERS	EASY	COMMON	AVERAGE	MODERATE	EXPOSED DATA AND FUNCTIONS	0	0
A8-Cross-Site Request Forgery (CSRF)	USERS BROWSERS	AVERAGE	COMMON	EASY	MODERATE	AFFECTED DATA AND FUNCTIONS	0	0
A9-Using Components with Known Vulnerabilities*	EXTERNAL USERS, AUTOMATED TOOLS	AVERAGE	WIDESPREAD	DIFFICULT	MODERATE	AFFECTED DATA AND FUNCTIONS	0	0
A10-Unvalidated Redirects and Forwards	USERS BROWSERS	AVERAGE	WIDESPREAD	DIFFICULT	MODERATE	AFFECTED DATA AND FUNCTIONS	0	0

<sup>\*</sup> Project scan results do not include all relevant queries. Presets and\or Filters should be changed to include all relevant standard queries.



# Scan Summary - PCI DSS v3.2

Category	Issues Found	Best Fix Locations
PCI DSS (3.2) - 6.5.1 - Injection flaws - particularly SQL injection	0	0
PCI DSS (3.2) - 6.5.2 - Buffer overflows	0	0
PCI DSS (3.2) - 6.5.3 - Insecure cryptographic storage	0	0
PCI DSS (3.2) - 6.5.4 - Insecure communications	0	0
PCI DSS (3.2) - 6.5.5 - Improper error handling*	0	0
PCI DSS (3.2) - 6.5.7 - Cross-site scripting (XSS)	0	0
PCI DSS (3.2) - 6.5.8 - Improper access control	0	0
PCI DSS (3.2) - 6.5.9 - Cross-site request forgery	0	0
PCI DSS (3.2) - 6.5.10 - Broken authentication and session management	0	0

<sup>\*</sup> Project scan results do not include all relevant queries. Presets and\or Filters should be changed to include all relevant standard queries.



# Scan Summary - FISMA 2014

Category	Description	Issues Found	Best Fix Locations
Access Control	Organizations must limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems) and to the types of transactions and functions that authorized users are permitted to exercise.	0	0
Audit And Accountability*	Organizations must: (i) create, protect, and retain information system audit records to the extent needed to enable the monitoring, analysis, investigation, and reporting of unlawful, unauthorized, or inappropriate information system activity; and (ii) ensure that the actions of individual information system users can be uniquely traced to those users so they can be held accountable for their actions.	0	0
Configuration Management	Organizations must: (i) establish and maintain baseline configurations and inventories of organizational information systems (including hardware, software, firmware, and documentation) throughout the respective system development life cycles; and (ii) establish and enforce security configuration settings for information technology products employed in organizational information systems.	0	0
Identification And Authentication*	Organizations must identify information system users, processes acting on behalf of users, or devices and authenticate (or verify) the identities of those users, processes, or devices, as a prerequisite to allowing access to organizational information systems.	0	0
Media Protection	Organizations must: (i) protect information system media, both paper and digital; (ii) limit access to information on information system media to authorized users; and (iii) sanitize or destroy information system media before disposal or release for reuse.	0	0
System And Communications Protection	Organizations must: (i) monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information systems; and (ii) employ architectural designs, software development techniques, and systems engineering principles that promote effective information security within organizational information systems.	0	0
System And Information Integrity	Organizations must: (i) identify, report, and correct information and information system flaws in a timely manner; (ii) provide protection from malicious code at appropriate locations within organizational information systems; and (iii) monitor information system security alerts and advisories and take appropriate actions in response.	0	0

<sup>\*</sup> Project scan results do not include all relevant queries. Presets and\or Filters should be changed to include all relevant standard queries.



# Scan Summary - NIST SP 800-53

Category	Issues Found	Best Fix Locations
AC-12 Session Termination (P2)	0	0
AC-3 Access Enforcement (P1)	0	0
AC-4 Information Flow Enforcement (P1)	0	0
AC-6 Least Privilege (P1)	0	0
AU-9 Protection of Audit Information (P1)	0	0
CM-6 Configuration Settings (P2)	0	0
IA-5 Authenticator Management (P1)	0	0
IA-6 Authenticator Feedback (P2)	0	0
IA-8 Identification and Authentication (Non-Organizational Users) (P1)	0	0
SC-12 Cryptographic Key Establishment and Management (P1)	0	0
SC-13 Cryptographic Protection (P1)	0	0
SC-17 Public Key Infrastructure Certificates (P1)	0	0
SC-18 Mobile Code (P2)	0	0
SC-23 Session Authenticity (P1)*	0	0
SC-28 Protection of Information at Rest (P1)	0	0
SC-4 Information in Shared Resources (P1)	0	0
SC-5 Denial of Service Protection (P1)*	119	28
SC-8 Transmission Confidentiality and Integrity (P1)	0	0
SI-10 Information Input Validation (P1)*	0	0
SI-11 Error Handling (P2)*	0	0
SI-15 Information Output Filtering (P0)	0	0
SI-16 Memory Protection (P1)	0	0

<sup>\*</sup> Project scan results do not include all relevant queries. Presets and\or Filters should be changed to include all relevant standard queries.



# Scan Summary - OWASP Mobile Top 10 2016

Category	Description	Issues Found	Best Fix Locations
M1-Improper Platform Usage	This category covers misuse of a platform feature or failure to use platform security controls. It might include Android intents, platform permissions, misuse of TouchID, the Keychain, or some other security control that is part of the mobile operating system. There are several ways that mobile apps can experience this risk.	0	0
M2-Insecure Data Storage	This category covers insecure data storage and unintended data leakage.	0	0
M3-Insecure Communication	This category covers poor handshaking, incorrect SSL versions, weak negotiation, cleartext communication of sensitive assets, etc.	0	0
M4-Insecure Authentication	This category captures notions of authenticating the end user or bad session management. This can include: -Failing to identify the user at all when that should be required -Failure to maintain the user's identity when it is required -Weaknesses in session management	0	0
M5-Insufficient Cryptography	The code applies cryptography to a sensitive information asset. However, the cryptography is insufficient in some way. Note that anything and everything related to TLS or SSL goes in M3. Also, if the app fails to use cryptography at all when it should, that probably belongs in M2. This category is for issues where cryptography was attempted, but it wasnt done correctly.	0	0
M6-Insecure Authorization	This is a category to capture any failures in authorization (e.g., authorization decisions in the client side, forced browsing, etc.). It is distinct from authentication issues (e.g., device enrolment, user identification, etc.). If the app does not authenticate users at all in a situation where it should (e.g., granting anonymous access to some resource or service when authenticated and authorized access is required), then that is an authentication failure not an authorization failure.	0	0
M7-Client Code Quality	This category is the catch-all for code-level implementation problems in the mobile client. That's distinct from server-side coding mistakes. This would capture things like buffer overflows, format string vulnerabilities, and various other codelevel mistakes where the solution is to rewrite some code that's running on the mobile device.	0	0
M8-Code Tampering	This category covers binary patching, local resource modification, method hooking, method swizzling, and dynamic memory modification. Once the application is delivered to the mobile device, the code and data resources are resident there. An attacker can either directly modify the code, change the contents of memory dynamically, change or replace the system APIs that the application uses, or	0	0



	modify the application's data and resources. This can provide the attacker a direct method of subverting the intended use of the software for personal or monetary gain.		
M9-Reverse Engineering	This category includes analysis of the final core binary to determine its source code, libraries, algorithms, and other assets. Software such as IDA Pro, Hopper, otool, and other binary inspection tools give the attacker insight into the inner workings of the application. This may be used to exploit other nascent vulnerabilities in the application, as well as revealing information about back end servers, cryptographic constants and ciphers, and intellectual property.	0	0
M10-Extraneous Functionality	Often, developers include hidden backdoor functionality or other internal development security controls that are not intended to be released into a production environment. For example, a developer may accidentally include a password as a comment in a hybrid app. Another example includes disabling of 2-factor authentication during testing.	0	0



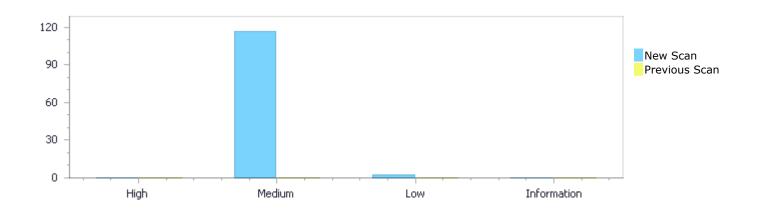
# Scan Summary - Custom

Category	Issues Found	Best Fix Locations
Must audit	0	0
Check	0	0
Optional	0	0



# Results Distribution By Status First scan of the project

	High	Medium	Low	Information	Total
New Issues	0	117	2	0	119
Recurrent Issues	0	0	0	0	0
Total	0	117	2	0	119
Fixed Issues	0	0	0	0	0



# Results Distribution By State

	High	Medium	Low	Information	Total
Confirmed	0	0	0	0	0
Not Exploitable	0	0	0	0	0
To Verify	0	117	2	0	119
Urgent	0	0	0	0	0
Proposed Not Exploitable	0	0	0	0	0
Total	0	117	2	0	119

# **Result Summary**

Vulnerability Type	Occurrences	Severity
Use of Zero Initialized Pointer	117	Medium
NULL Pointer Dereference	2	Low



# 10 Most Vulnerable Files

# High and Medium Vulnerabilities

File Name	Issues Found
wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	59
wolfSSL@@wolfssl-v4.5.0-stable-CVE-2023-36328-TP.c	58



#### Scan Results Details

#### Use of Zero Initialized Pointer

Query Path:

CPP\Cx\CPP Medium Threat\Use of Zero Initialized Pointer Version:1

#### Categories

NIST SP 800-53: SC-5 Denial of Service Protection (P1)

#### Description

Use of Zero Initialized Pointer\Path 1:

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=3

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1616.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	1679
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_add (mp\_int \* a, mp\_int \* b, mp\_int \* c)

1679. \*tmpc = x->dp[i] + u;

Use of Zero Initialized Pointer\Path 2:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

<u>081&pathid=4</u>

Status New



The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1616.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	1679
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a\rightarrow dp = NULL;$ 

¥

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_add (mp\_int \* a, mp\_int \* b, mp\_int \* c)

1679. \*tmpc = x-dp[i] + u;

#### **Use of Zero Initialized Pointer\Path 3:**

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=5

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1325.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	162	1343
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

٧



File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_cmp\_mag (mp\_int \* a, mp\_int \* b)

....

1343. tmpb = b->dp + (a->used - 1);

Use of Zero Initialized Pointer\Path 4:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=6

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1325.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	1343
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_cmp\_mag (mp\_int \* a, mp\_int \* b)

1343. tmpb = b->dp + (a->used - 1);

Use of Zero Initialized Pointer\Path 5:

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=7

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1325.



File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	207	1340
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207. a->dp = NULL;

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_cmp\_mag (mp\_int \* a, mp\_int \* b)

1340. tmpa = a->dp + (a->used - 1);

#### **Use of Zero Initialized Pointer\Path 6:**

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=8

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1325.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	162	1340
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

¥

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_cmp\_mag (mp\_int \* a, mp\_int \* b)



```
....
1340. tmpa = a->dp + (a->used - 1);
```

Use of Zero Initialized Pointer\Path 7:

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=9

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1536.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	1553
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

.... a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_div\_2(mp\_int \* a, mp\_int \* b)

1553. tmpa = a->dp + b->used - 1;

Use of Zero Initialized Pointer\Path 8:

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=10

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1536.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c



Line	207	1553
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207. a->dp = NULL;

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_div\_2(mp\_int \* a, mp\_int \* b)

1553. tmpa = a->dp + b->used - 1;

#### **Use of Zero Initialized Pointer\Path 9:**

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=11

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1536.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	1572
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_div\_2(mp\_int \* a, mp\_int \* b)

1572. tmpb = b->dp + b->used;

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Use of Zero Initialized Pointer\Path 10:

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=12

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1536.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	207	1572
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a\rightarrow dp = NULL;$ 

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_div\_2(mp\_int \* a, mp\_int \* b)

1572. tmpb = b->dp + b->used;

Use of Zero Initialized Pointer\Path 11:

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=13

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1536.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	1556
Object	dp	dp



Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

¥

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_div\_2(mp\_int \* a, mp\_int \* b)

.... 1556. tmpb = b->dp + b->used - 1;

#### **Use of Zero Initialized Pointer\Path 12:**

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=14

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1536.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	207	1556
Object	dp	dp

#### Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

a->dp = NULL;

.

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_div\_2(mp\_int \* a, mp\_int \* b)

1556. tmpb = b->dp + b->used - 1;

#### **Use of Zero Initialized Pointer\Path 13:**

Severity Medium
Result State To Verify
Online Results http://WIN-



PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=15

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 715.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	771
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_mul\_2d (mp\_int \* a, int b, mp\_int \* c)

771. c->dp[(c->used)++] = r;

Use of Zero Initialized Pointer\Path 14:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=16

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 715.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	771
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)



```
207.
                         a->dp
                                   = NULL;
File Name
             wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Method
             int mp_mul_2d (mp_int * a, int b, mp_int * c)
               . . . .
               771.
                             c->dp[(c->used)++] = r;
```

#### Use of Zero Initialized Pointer\Path 15:

Severity Medium Result State To Verify Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=17

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 559.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	574
Object	dp	dp

#### Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c Method

void mp free (mp int \* a)

207. a->dp = NULL;

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_rshb (mp\_int \*c, int x)

> 574. tmpc = c->dp + (c->used - 1);

#### Use of Zero Initialized Pointer\Path 16:

Severity Medium Result State To Verify Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=18

New Status



The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 559.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	574
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162. a->dp = NULL;

¥

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_rshb (mp\_int \*c, int x)

574. tmpc = c->dp + (c->used - 1);

#### **Use of Zero Initialized Pointer\Path 17:**

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=19

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 594.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	618
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a\rightarrow dp = NULL;$ 



File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_rshd (mp\_int \* a, int b)

. . . .

618. top = a->dp + b;

Use of Zero Initialized Pointer\Path 18:

Severity Medium Result State To Verify Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=20

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 594.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	618
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

> 162. a->dp = NULL;

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_rshd (mp\_int \* a, int b)

> 618. top = a->dp + b;

**Use of Zero Initialized Pointer\Path 19:** 

Severity Medium Result State To Verify Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=21

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 780.



	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	806
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_lshd (mp\_int \* a, int b)

806. bottom = a->dp + a->used - 1 - b;

#### **Use of Zero Initialized Pointer\Path 20:**

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=22

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 780.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	806
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_lshd (mp\_int \* a, int b)



```
....
806. bottom = a->dp + a->used - 1 - b;
```

Use of Zero Initialized Pointer\Path 21:

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=23

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 780.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	803
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

 $a \rightarrow dp = NULL;$ 

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_lshd (mp\_int \* a, int b)

803. top = a->dp + a->used - 1;

Use of Zero Initialized Pointer\Path 22:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=24

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 780.

	Source	Destination
File		wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c



Line	162	803
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

¥

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_lshd (mp\_int \* a, int b)

803. top = a->dp + a->used - 1;

#### Use of Zero Initialized Pointer\Path 23:

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=25

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 249.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	263
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_count\_bits (mp\_int \* a)

263. q = a->dp[a->used - 1];

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Use of Zero Initialized Pointer\Path 24:

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=26

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 249.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	263
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a\rightarrow dp = NULL;$ 

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_count\_bits (mp\_int \* a)

263. q = a->dp[a->used - 1];

#### Use of Zero Initialized Pointer\Path 25:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=27

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 2837.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	2860
Object	dp	dp



```
Code Snippet
```

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_set\_bit (mp\_int \* a, int b)

2860. a->dp[i] |= ((mp\_digit)1) << (b % DIGIT\_BIT);

#### **Use of Zero Initialized Pointer\Path 26:**

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=28

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 2837.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	2860
Object	dp	dp

#### Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

a->dp = NULL;

.

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_set\_bit (mp\_int \* a, int b)

2860. a->dp[i] |= ((mp\_digit)1) << (b % DIGIT\_BIT);

#### **Use of Zero Initialized Pointer\Path 27:**

Severity Medium
Result State To Verify
Online Results http://WIN-



PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=29

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 646.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	672
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_mod\_2d (mp\_int \* a, int b, mp\_int \* c)

.... c->dp[b / DIGIT\_BIT] &= (mp\_digit) ((((mp\_digit) 1) <<

Use of Zero Initialized Pointer\Path 28:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=30

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3498.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	3529
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)



```
File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
int s_mp_mul_digs (mp_int * a, mp_int * b, mp_int * c, int digs)

....

3529. tmpx = a->dp[ix];
```

#### Use of Zero Initialized Pointer\Path 29:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=31

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3498.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	3529
Object	dp	dp

#### Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162. a->dp = NULL;

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_mul\_digs (mp\_int \* a, mp\_int \* b, mp\_int \* c, int digs)

3529. tmpx = a->dp[ix];

#### Use of Zero Initialized Pointer\Path 30:

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081% pathid = 32

Status New



The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3342.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	3382
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a\rightarrow dp = NULL;$ 

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_mul\_digs (mp\_int \* a, mp\_int \* b, mp\_int \* c, int digs)

3382. tmpx = a->dp + tx;

#### **Use of Zero Initialized Pointer\Path 31:**

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=33

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3342.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	162	3382
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

.... 162. a->dp = NULL;



File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_mul\_digs (mp\_int \* a, mp\_int \* b, mp\_int \* c, int digs)

3382. tmpx = a->dp + tx;

Use of Zero Initialized Pointer\Path 32:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=34

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 4072.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	4142
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a \rightarrow dp = NULL;$ 

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_mul\_high\_digs (mp\_int \* a, mp\_int \* b, mp\_int \* c, int digs)

4142. tmpc = c->dp + digs;

Use of Zero Initialized Pointer\Path 33:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=35

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 4072.



	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	4142
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_mul\_high\_digs (mp\_int \* a, mp\_int \* b, mp\_int \* c, int digs)

4142. tmpc = c->dp + digs;

#### **Use of Zero Initialized Pointer\Path 34:**

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=36

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 4072.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	207	4115
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_mul\_high\_digs (mp\_int \* a, mp\_int \* b, mp\_int \* c, int digs)



```
....
4115. tmpx = a->dp + tx;
```

Use of Zero Initialized Pointer\Path 35:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=37

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 4072.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	4115
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

.... a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_mul\_high\_digs (mp\_int \* a, mp\_int \* b, mp\_int \* c, int digs)

.... 4115. tmpx = a->dp + tx;

Use of Zero Initialized Pointer\Path 36:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=38

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c



Line	162	3290
Object	dp	dp

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162. a->dp = NULL;

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

....
3290. \_W += ((mp\_word)a->dp[ix>>1])\*((mp\_word)a->dp[ix>>1]);

### Use of Zero Initialized Pointer\Path 37:

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=39

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	207	3290
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207. a->dp = NULL;

\*

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

....
3290. \_W += ((mp\_word)a->dp[ix>>1])\*((mp\_word)a->dp[ix>>1]);



Use of Zero Initialized Pointer\Path 38:

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=40

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	3290
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

3290. \_W += ((mp\_word)a->dp[ix>>1])\*((mp\_word)a->dp[ix>>1]);

Use of Zero Initialized Pointer\Path 39:

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=41

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	3290
Object	dp	dp



File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

a->dp = NULL;

¥

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

....
3290. \_W += ((mp\_word)a->dp[ix>>1])\*((mp\_word)a->dp[ix>>1]);

# **Use of Zero Initialized Pointer\Path 40:**

Severity Medium
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=42

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	3267
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

.... 162. a->dp = NULL;

.

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

.... 3267. tmpy = a->dp + ty;

# **Use of Zero Initialized Pointer\Path 41:**

Severity Medium
Result State To Verify
Online Results http://WIN-



PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=43

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	3267
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a\rightarrow dp = NULL;$ 

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

3267. tmpy = a->dp + ty;

#### Use of Zero Initialized Pointer\Path 42:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=44

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	3266
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)



```
162.
                       a->dp = NULL;
File Name
             wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Method
             int fast_s_mp_sqr (mp_int * a, mp_int * b)
               . . . .
               3266.
                             tmpx = a->dp + tx;
```

## Use of Zero Initialized Pointer\Path 43:

Severity Medium Result State To Verify Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=45

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3223.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	3266
Object	dp	dp

#### Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c Method

void mp free (mp int \* a)

207. a->dp = NULL;

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int fast\_s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

> 3266. tmpx = a->dp + tx;

# Use of Zero Initialized Pointer\Path 44:

Severity Medium Result State To Verify Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=46

New Status



The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3431.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	3466
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

# **Use of Zero Initialized Pointer\Path 45:**

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=47

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3431.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c
Line	207	3466
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

.... 207. a->dp = NULL;



File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

....

3466. r = ((mp\_word)tmpx) \* ((mp\_word)a->dp[iy]);

Use of Zero Initialized Pointer\Path 46:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=48

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3431.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	3459
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

3459. tmpx = a->dp[ix];

#### **Use of Zero Initialized Pointer\Path 47:**

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=49

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3431.



	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	3459
Object	dp	dp

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

207.  $a\rightarrow dp = NULL;$ 

¥

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

3459. tmpx = a->dp[ix];

#### Use of Zero Initialized Pointer\Path 48:

Severity Medium
Result State To Verify
Online Results <a href="http://win-">http://win-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=50

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3431.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	162	3450
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_sqr (mp\_int \* a, mp\_int \* b)



```
....
3450. ((mp_word)a->dp[ix])*((mp_word)a->dp[ix]);
```

Use of Zero Initialized Pointer\Path 49:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=51

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 201 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3431.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	207	3450
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method void mp\_free (mp\_int \* a)

a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

3450. ((mp\_word)a->dp[ix])\*((mp\_word)a->dp[ix]);

Use of Zero Initialized Pointer\Path 50:

Severity Medium
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=52

Status New

The variable declared in dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 3431.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c



Line	162	3450
Object	dp	dp

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_init (mp\_int \* a)

162.  $a\rightarrow dp = NULL;$ 

٧

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int s\_mp\_sqr (mp\_int \* a, mp\_int \* b)

3450. ((mp\_word)a->dp[ix])\*((mp\_word)a->dp[ix]);

# **NULL Pointer Dereference**

Query Path:

CPP\Cx\CPP Low Visibility\NULL Pointer Dereference Version:1

Categories

NIST SP 800-53: SC-5 Denial of Service Protection (P1)

OWASP Top 10 2017: A1-Injection

# Description

# **NULL Pointer Dereference\Path 1:**

Severity Low
Result State To Verify
Online Results <a href="http://WIN-">http://WIN-</a>

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=1

Status New

The variable declared in 0 at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1410 is not initialized when it is used by a at wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c in line 1410.

	Source	Destination
File	wolfSSL@@wolfssl-v4.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c
Line	1417	1417
Object	0	a

Code Snippet

File Name wolfSSL@@wolfssl-v4.4.0-stable-CVE-2023-36328-TP.c

Method int mp\_set (mp\_int \* a, mp\_digit b)

1417.  $a \rightarrow used = (a \rightarrow dp[0] != 0) ? 1 : 0;$ 



#### **NULL Pointer Dereference\Path 2:**

Severity Low
Result State To Verify
Online Results http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050092&projectid=50

081&pathid=2

Status New

The variable declared in 0 at wolfSSL@@wolfssl-v4.5.0-stable-CVE-2023-36328-TP.c in line 1408 is not initialized when it is used by a at wolfSSL@@wolfssl-v4.5.0-stable-CVE-2023-36328-TP.c in line 1408.

	Source	Destination
File	wolfSSL@@wolfssl-v4.5.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v4.5.0-stable-CVE-2023-36328-TP.c
Line	1415	1415
Object	0	a

#### Code Snippet

File Name wolfSSL@@wolfssl-v4.5.0-stable-CVE-2023-36328-TP.c

Method int mp\_set (mp\_int \* a, mp\_digit b)

1415.  $a \rightarrow used = (a \rightarrow dp[0] != 0) ? 1 : 0;$ 

# **Use of Zero Initialized Pointer**

#### Risk

#### What might happen

A null pointer dereference is likely to cause a run-time exception, a crash, or other unexpected behavior.

#### Cause

# How does it happen

Variables which are declared without being assigned will implicitly retain a null value until they are assigned. The null value can also be explicitly set to a variable, to ensure clear out its contents. Since null is not really a value, it may not have object variables and methods, and any attempt to access contents of a null object, instead of verifying it is set beforehand, will result in a null pointer dereference exception.

#### **General Recommendations**

#### How to avoid it

- For any variable that is created, ensure all logic flows between declaration and use assign a non-null value to the variable first.
- Enforce null checks on any received variable or object before it is dereferenced, to ensure it does not contain a null assigned to it elsewhere.
- Consider the need to assign null values in order to overwrite initialized variables. Consider reassigning or releasing these variables instead.



# **Source Code Examples**

#### **CPP**

**Explicit NULL Dereference** 

```
char * input = NULL;
printf("%s", input);
```

Implicit NULL Dereference

```
char * input;
printf("%s", input);
```

#### Java

**Explicit Null Dereference** 

```
Object o = null;
out.println(o.getClass());
```



# **NULL Pointer Dereference**

# Risk

#### What might happen

A null pointer dereference is likely to cause a run-time exception, a crash, or other unexpected behavior.

#### Cause

# How does it happen

Variables which are declared without being assigned will implicitly retain a null value until they are assigned. The null value can also be explicitly set to a variable, to ensure clear out its contents. Since null is not really a value, it may not have object variables and methods, and any attempt to access contents of a null object, instead of verifying it is set beforehand, will result in a null pointer dereference exception.

### **General Recommendations**

#### How to avoid it

- For any variable that is created, ensure all logic flows between declaration and use assign a non-null value to the variable first.
- Enforce null checks on any received variable or object before it is dereferenced, to ensure it does not contain a null assigned to it elsewhere.
- Consider the need to assign null values in order to overwrite initialized variables. Consider reassigning or releasing these variables instead.

# **Source Code Examples**



# Scanned Languages

Language	Hash Number	Change Date
СРР	4541647240435660	1/6/2025
Common	0105849645654507	1/6/2025