

vul files 89 Scan Report

Project Name vul_files_89

Scan Start Thursday, January 9, 2025 3:21:38 PM

Preset Checkmarx Default Scan Time 00h:27m:27s Lines Of Code Scanned 291379

Files Scanned 13

Report Creation Time Thursday, January 9, 2025 5:12:10 PM

http://WIN-Online Results

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50084

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

None

Excluded: None

Assigned to

Included: All

Categories

Included:

Uncategorized Αll ΑII Custom

PCI DSS v3.2 ΑII

OWASP Top 10 2013 ΑII

FISMA 2014 ΑII

NIST SP 800-53 ΑII

OWASP Top 10 2017 Αll

OWASP Mobile Top 10

2016

Excluded:

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



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

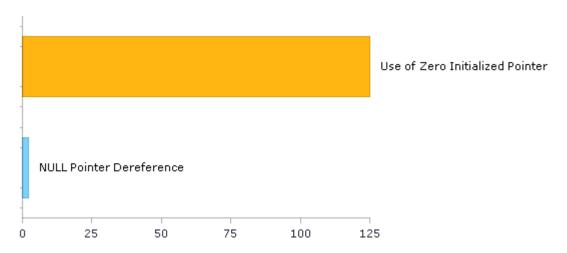


Result Summary

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

^{*} 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

^{*} 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

^{*} 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

^{*} 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)*	127	31
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

^{*} 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



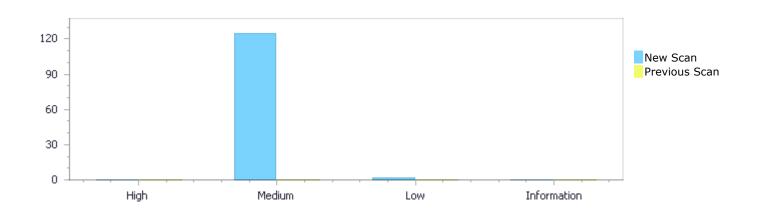
Scan Summary - Custom

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	125	2	0	127
Recurrent Issues	0	0	0	0	0
Total	0	125	2	0	127
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	125	2	0	127
Urgent	0	0	0	0	0
Proposed Not Exploitable	0	0	0	0	0
Total	0	125	2	0	127

Result Summary

Vulnerability Type	Occurrences	Severity
Use of Zero Initialized Pointer	125	Medium
NULL Pointer Dereference	2	Low



10 Most Vulnerable Files

High and Medium Vulnerabilities

File Name	Issues Found
wolfSSL@@wolfssl-v5.5.2-stable-CVE-2023-36328-TP.c	64
wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	61



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 http://win-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084%pathid=1

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1697.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	1760
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_add (mp_int * a, mp_int * b, mp_int * c)

1760. *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=1050095&projectid=50

<u>084&pathid=2</u>

Status New



The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1697.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	1760
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_add (mp_int * a, mp_int * b, mp_int * c)

1760. *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=1050095&projectid=50

084&pathid=3

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1379.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c
Line	162	1400
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. a->dp = NULL;

¥



File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_cmp_mag (mp_int * a, mp_int * b)

....

1400. 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=1050095&projectid=50

084&pathid=4

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1379.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	1400
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

*

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_cmp_mag (mp_int * a, mp_int * b)

1400. tmpb = b->dp + (a->used - 1);

Use of Zero Initialized Pointer\Path 5:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=5

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1379.

Destination		Source	Destination
-------------	--	--------	-------------



File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	1397
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_cmp_mag (mp_int * a, mp_int * b)

1397. tmpa = a->dp + (a->used - 1);

Use of Zero Initialized Pointer\Path 6:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=6

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1379.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	1397
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_cmp_mag (mp_int * a, mp_int * b)



```
....
1397. tmpa = a->dp + (a->used - 1);
```

Use of Zero Initialized Pointer\Path 7:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=7

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1599.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	1616
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

.... a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_div_2(mp_int * a, mp_int * b)

1616. tmpa = a->dp + b->used - 1;

Use of Zero Initialized Pointer\Path 8:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=8

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1599.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c



Line	213	1616
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

₩.

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_div_2(mp_int * a, mp_int * b)

1616. tmpa = a->dp + b->used - 1;

Use of Zero Initialized Pointer\Path 9:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=9

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1599.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	1635
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

.

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_div_2(mp_int * a, mp_int * b)

1635. tmpb = b->dp + b->used;

PAGE 19 OF 50



Use of Zero Initialized Pointer\Path 10:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=10

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1599.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	1635
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. $a\rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_div_2(mp_int * a, mp_int * b)

1635. tmpb = b->dp + b->used;

Use of Zero Initialized Pointer\Path 11:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=11

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1599.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	1619
Object	dp	dp



Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_div_2(mp_int * a, mp_int * b)

1619. tmpb = b->dp + b->used - 1;

Use of Zero Initialized Pointer\Path 12:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=12

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1599.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	1619
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. $a\rightarrow dp = NULL;$

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_div_2(mp_int * a, mp_int * b)

.... 1619. 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=1050095&projectid=50

084&pathid=13

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 773.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	829
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_mul_2d (mp_int * a, int b, mp_int * c)

829. 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=1050095&projectid=50

084&pathid=14

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 773.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	829
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)



```
213.
                         a->dp
                                   = NULL;
File Name
             wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Method
             int mp_mul_2d (mp_int * a, int b, mp_int * c)
               . . . .
               829.
                             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=1050095&projectid=50

084&pathid=15

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 566.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	596
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c Method

int mp init (mp int * a)

162. a->dp = NULL;

wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c File Name

Method void mp_rshb (mp_int *c, int x)

> 596. 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=1050095&projectid=50

084&pathid=16

New Status



The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 566.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	596
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. $a\rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_rshb (mp_int *c, int x)

596. 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=1050095&projectid=50

084&pathid=17

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 616.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	640
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;



File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_rshd (mp_int * a, int b)

640. 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=1050095&projectid=50

084&pathid=18

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 616.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	640
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_rshd (mp_int * a, int b)

640. 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=1050095&projectid=50

084&pathid=19

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 838.



	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	864
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_lshd (mp_int * a, int b)

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

Use of Zero Initialized Pointer\Path 20:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=20

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 838.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	864
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_lshd (mp_int * a, int b)



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

Use of Zero Initialized Pointer\Path 21:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=21

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 838.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	861
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

 $a \rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_lshd (mp_int * a, int b)

861. 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=1050095&projectid=50

084&pathid=22

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 838.

	Source	Destination
File		wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c



Line	162	861
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. a->dp = NULL;

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_lshd (mp_int * a, int b)

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

Use of Zero Initialized Pointer\Path 23:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=23

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 255.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c
Line	162	269
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

*

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_count_bits (const mp_int * a)

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



Use of Zero Initialized Pointer\Path 24:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=24

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 255.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	269
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_count_bits (const mp_int * a)

269. 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=1050095&projectid=50

084&pathid=25

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 2917.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	2940
Object	dp	dp



```
Code Snippet
```

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. a->dp = NULL;

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_set_bit (mp_int * a, int b)

2940. a->dp[i] |= ((mp_digit)1) << (b % DIGIT_BIT);

Use of Zero Initialized Pointer\Path 26:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=26

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 2917.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	2940
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. $a\rightarrow dp = NULL;$

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_set_bit (mp_int * a, int b)

2940. 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=1050095&projectid=50

084&pathid=27

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 668.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	719
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_mod_2d (mp_int * a, int b, mp_int * c)

719. c->dp[bmax - 1] &=

Use of Zero Initialized Pointer\Path 28:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=28

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 668.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	719
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)



```
213. a->dp = NULL;

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_mod_2d (mp_int * a, int b, mp_int * c)

....

719. c->dp[bmax - 1] &=
```

Use of Zero Initialized Pointer\Path 29:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=29

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3606.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	3637
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c Method void mp free (mp int * a)

213. a->dp = NULL;

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_mul_digs (mp_int * a, mp_int * b, mp_int * c, int digs)

3637. tmpx = a->dp[ix];

Use of Zero Initialized Pointer\Path 30:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084%pathid=30

Status New



The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3606.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3637
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_mul_digs (mp_int * a, mp_int * b, mp_int * c, int digs)

3637. tmpx = a->dp[ix];

Use of Zero Initialized Pointer\Path 31:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=31

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3448.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	3489
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;



File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_mul_digs (mp_int * a, mp_int * b, mp_int * c, int digs)

3489. 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=1050095&projectid=50

084&pathid=32

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3448.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3489
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_mul_digs (mp_int * a, mp_int * b, mp_int * c, int digs)

3489. tmpx = a->dp + tx;

Use of Zero Initialized Pointer\Path 33:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=33

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 4180.



	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	4250
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-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)

4250. tmpc = c->dp + digs;

Use of Zero Initialized Pointer\Path 34:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=34

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 4180.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c
Line	162	4250
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-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)



```
....
4250. tmpc = c->dp + digs;
```

Use of Zero Initialized Pointer\Path 35:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=35

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 4180.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	4223
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-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)

4223. 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=1050095&projectid=50

084&pathid=36

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 4180.

	Source	Destination
File		wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c



Line	162	4223
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

¥

File Name wolfSSL@@wolfssl-v5.4.0-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)

....
4223. tmpx = a->dp + tx;

Use of Zero Initialized Pointer\Path 37:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=37

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c
Line	162	3396
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

....
3396. __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 http://win-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=38

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c
Line	213	3396
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. $a\rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

3396. _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 http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=39

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3396
Object	dp	dp



```
Code Snippet
```

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. $a\rightarrow dp = NULL;$

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

....
3396. __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 http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=40

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	3396
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

₩

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

....
3396. __W += ((mp_word)a->dp[ix>>1])*((mp_word)a->dp[ix>>1]);

Use of Zero Initialized Pointer\Path 41:

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



PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=41

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3373
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

162. a->dp = NULL;

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

3373. 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=1050095&projectid=50

084&pathid=42

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	3373
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)



```
File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

....

3373. tmpy = a->dp + ty;
```

Use of Zero Initialized Pointer\Path 43:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=43

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3372
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

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

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

3372. 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=1050095&projectid=50

084%pathid=44

Status New



The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3329.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	3372
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int fast_s_mp_sqr (mp_int * a, mp_int * b)

3372. tmpx = a->dp + tx;

Use of Zero Initialized Pointer\Path 45:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=45

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3539.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3574
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

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



File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_sqr (mp_int * a, mp_int * b)

.... 3574. $r = ((mp_word)tmpx) * ((mp_word)a->dp[iy]);$

Use of Zero Initialized Pointer\Path 46:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=46

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3539.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	3574
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

 $a \rightarrow dp = NULL;$

.

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_sqr (mp_int * a, mp_int * b)

Use of Zero Initialized Pointer\Path 47:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=47

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3539.



	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3567
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

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

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_sqr (mp_int * a, mp_int * b)

3567. tmpx = a->dp[ix];

Use of Zero Initialized Pointer\Path 48:

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

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=48

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3539.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	213	3567
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. $a\rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_sqr (mp_int * a, mp_int * b)



```
....
3567. tmpx = 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=1050095&projectid=50

084&pathid=49

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 155 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3539.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c
Line	162	3558
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_init (mp_int * a)

.... $a \rightarrow dp = NULL;$

A

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_sqr (mp_int * a, mp_int * b)

3558. ((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=1050095&projectid=50

084&pathid=50

Status New

The variable declared in dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 207 is not initialized when it is used by dp at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 3539.

	Source	Destination
File		wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c



Line	213	3558
Object	dp	dp

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method void mp_free (mp_int * a)

213. a->dp = NULL;

¥

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int s_mp_sqr (mp_int * a, mp_int * b)

3558. ((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 http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1050095&projectid=50

084&pathid=126

Status New

The variable declared in 0 at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1467 is not initialized when it is used by a at wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c in line 1467.

	Source	Destination
File	wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.4.0-stable-CVE- 2023-36328-TP.c
Line	1474	1474
Object	0	a

Code Snippet

File Name wolfSSL@@wolfssl-v5.4.0-stable-CVE-2023-36328-TP.c

Method int mp_set (mp_int * a, mp_digit b)

1474. a->used = (a->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=1050095&projectid=50

084&pathid=127

Status New

The variable declared in 0 at wolfSSL@@wolfssl-v5.5.2-stable-CVE-2023-36328-TP.c in line 1467 is not initialized when it is used by a at wolfSSL@@wolfssl-v5.5.2-stable-CVE-2023-36328-TP.c in line 1467.

	Source	Destination
File	wolfSSL@@wolfssl-v5.5.2-stable-CVE-2023-36328-TP.c	wolfSSL@@wolfssl-v5.5.2-stable-CVE-2023-36328-TP.c
Line	1474	1474
Object	0	a

Code Snippet

File Name wolfSSL@@wolfssl-v5.5.2-stable-CVE-2023-36328-TP.c

Method int mp_set (mp_int * a, mp_digit b)

1474. a->used = (a->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