

reactos Scan Report

Project Name reactos

Scan Start Saturday, June 22, 2024 12:23:40 AM

Preset Checkmarx Default Scan Time 01h:32m:37s

Lines Of Code Scanned 276050 Files Scanned 112

Report Creation Time Saturday, June 22, 2024 12:57:11 AM

Online Results http://WIN-

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=50079

Team CxServer
Checkmarx Version 8.7.0
Scan Type Full

Source Origin LocalPath

Density 3/10000 (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

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 All

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

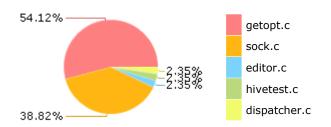
Selected queries are listed in Result Summary



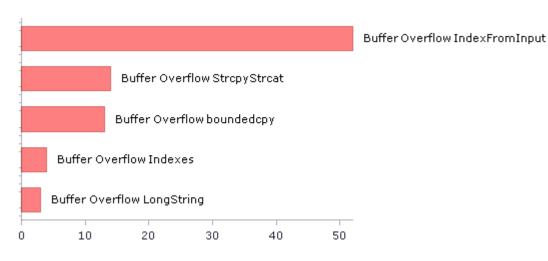
Result Summary

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	86	14
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	34	10
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)*	0	0
SC-8 Transmission Confidentiality and Integrity (P1)	0	0
SI-10 Information Input Validation (P1)*	34	10
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

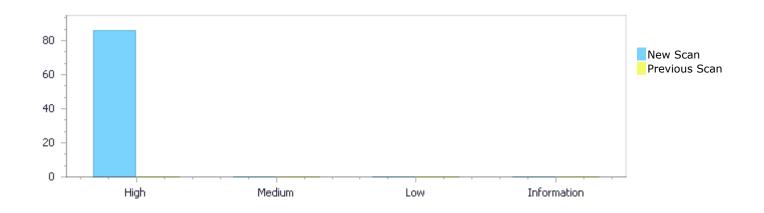
Category	Issues Found	Best Fix Locations
Must audit	0	0
Check	0	0
Optional	0	0



Results Distribution By Status First scan of the project

	High	Medium	Low	Information	Total
New Issues	86	0	0	0	86
Recurrent Issues	0	0	0	0	0
Total	86	0	0	0	86

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	86	0	0	0	86
Urgent	0	0	0	0	0
Proposed Not Exploitable	0	0	0	0	0
Total	86	0	0	0	86

Result Summary

Vulnerability Type	Occurrences	Severity
Buffer Overflow IndexFromInput	52	High
Buffer Overflow StrcpyStrcat	14	High
Buffer Overflow boundedcpy	13	High
Buffer Overflow Indexes	4	High
Buffer Overflow LongString	3	High



10 Most Vulnerable Files

High and Medium Vulnerabilities

File Name	Issues Found
reactos/getopt.c	46
reactos/sock.c	33
reactos/editor.c	2
reactos/hivetest.c	2
reactos/dispatcher.c	2
reactos/loadlib.c	1



Scan Results Details

Buffer Overflow IndexFromInput

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow IndexFromInput Version:1

Categories

OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow IndexFromInput\Path 1:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=21

Status New

The size of the buffer used by _getopt_internal_r in PostfixExpr, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	558
Object	argc	PostfixExpr

```
Code Snippet
```

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

558. d->optarg = argv[d->optind++];

Buffer Overflow IndexFromInput\Path 2:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=22

Status New



The size of the buffer used by _getopt_internal_r in PostfixExpr, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	558
Object	argv	PostfixExpr

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c

__getopt_internal_r (int argc, char **argv, const char *optstring,

....
558. d->optarg = argv[d->optind++];
```

Buffer Overflow IndexFromInput\Path 3:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=23

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	570
Object	argc	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c



Buffer Overflow IndexFromInput\Path 4:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=24

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	570
Object	argv	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

*

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

.... 570. d->__nextchar = argv[d->optind] + 2;

Buffer Overflow IndexFromInput\Path 5:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=25

Status New

The size of the buffer used by process_long_option in optind, at line 191 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c



Line	746	312
Object	argc	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method process_long_option (int argc, char **argv, const char *optstring,

if (!long_only || argv[d->optind][1] == '-'

Buffer Overflow IndexFromInput\Path 6:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=26

Status New

The size of the buffer used by process_long_option in optind, at line 191 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	312
Object	argv	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method process_long_option (int argc, char **argv, const char *optstring,

312. if (!long_only || argv[d->optind][1] == '-'



Buffer Overflow IndexFromInput\Path 7:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=27

Status New

The size of the buffer used by process_long_option in PostfixExpr, at line 191 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	352
Object	argc	PostfixExpr

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method process_long_option (int argc, char **argv, const char *optstring,

352. d->optarg = argv[d->optind++];

Buffer Overflow IndexFromInput\Path 8:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=28

Status New

The size of the buffer used by process_long_option in PostfixExpr, at line 191 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	352
Object	argv	PostfixExpr

Code Snippet

File Name reactos/getopt.c



```
Method main (int argc, char **argv)
....
746. main (int argc, char **argv)

File Name reactos/getopt.c
Method process_long_option (int argc, char **argv, const char *optstring,
....
352. d->optarg = argv[d->optind++];
```

Buffer Overflow IndexFromInput\Path 9:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=29

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	644
Object	argc	optind

Buffer Overflow IndexFromInput\Path 10:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=30

Status New



The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

_		
	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	644
Object	argv	optind

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
__getopt_internal_r (int argc, char **argv, const char *optstring,

....
644. d->optarg = argv[d->optind];
```

Buffer Overflow IndexFromInput\Path 11:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=31

Status New

The size of the buffer used by _getopt_internal_r in PostfixExpr, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	691
Object	argc	PostfixExpr

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)
```



Buffer Overflow IndexFromInput\Path 12:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=32

Status New

The size of the buffer used by _getopt_internal_r in PostfixExpr, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	691
Object	argv	PostfixExpr

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

Buffer Overflow IndexFromInput\Path 13:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=33

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.



File	reactos/getopt.c	reactos/getopt.c
Line	746	602
Object	argc	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

602. d->__nextchar = argv[d->optind] + 1;

Buffer Overflow IndexFromInput\Path 14:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=34

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	602
Object	argv	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

602. d->__nextchar = argv[d->optind] + 1;



Buffer Overflow IndexFromInput\Path 15:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=35

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

-		<u> </u>	
	Source		Destination
File	reactos/getopt.c		reactos/getopt.c
Line	746		592
Object	argc		optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

Buffer Overflow IndexFromInput\Path 16:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=36

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	592
Object	argv	optind

Code Snippet



Buffer Overflow IndexFromInput\Path 17:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=37

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

-		
	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	588
Object	argc	optind

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
Method __getopt_internal_r (int argc, char **argv, const char *optstring,

....
588. if (long_only && (argv[d->optind][2]
```

Buffer Overflow IndexFromInput\Path 18:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=38



Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

•		
	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	588
Object	argv	optind

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
__getopt_internal_r (int argc, char **argv, const char *optstring,

....
588. if (long_only && (argv[d->optind][2])
```

Buffer Overflow IndexFromInput\Path 19:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=39

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	589
Object	argc	optind

```
Code Snippet
```

File Name reactos/getopt.c

Method main (int argc, char **argv)

.... 746. main (int argc, char **argv)

A



```
File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

....

589. || !strchr (optstring, argv[d->optind][1])))
```

Buffer Overflow IndexFromInput\Path 20:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=40

Status New

Code Snippet

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	589
Object	argv	optind

```
File Name reactos/getopt.c

Method main (int argc, char **argv)

....
```

746. main (int argc, char **argv)

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

589. || !strchr (optstring, argv[d->optind][1])))

٧

Buffer Overflow IndexFromInput\Path 21:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=41

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.



File	reactos/getopt.c	reactos/getopt.c
Line	746	566
Object	argc	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

566. if (argv[d->optind][1] == '-')

Buffer Overflow IndexFromInput\Path 22:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=42

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	566
Object	argv	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

....
566. if (argv[d->optind][1] == '-')



Buffer Overflow IndexFromInput\Path 23:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=43

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

-		<u> </u>	
	Source		Destination
File	reactos/getopt.c		reactos/getopt.c
Line	746		554
Object	argc		optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

554. if (NONOPTION_P)

Buffer Overflow IndexFromInput\Path 24:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=44

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	554
Object	argv	optind

Code Snippet



File Name reactos/getopt.c main (int argc, char **argv)

.... 746. main (int argc, char **argv)

File Name reactos/getopt.c getopt_internal_r (int argc, char **argv, const char *optstring,

.... 554. if (NONOPTION_P)

Buffer Overflow IndexFromInput\Path 25:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=45

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

-		
	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	554
Object	argc	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

₹

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

554. if (NONOPTION P)

Buffer Overflow IndexFromInput\Path 26:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=46



Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	554
Object	argv	optind

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
__getopt_internal_r (int argc, char **argv, const char *optstring,

....
554. if (NONOPTION_P)
```

Buffer Overflow IndexFromInput\Path 27:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=47

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	152
Object	argc	BinaryExpr

```
Code Snippet
```

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A



```
File Name reactos/getopt.c

Method exchange (char **argv, struct _getopt_data *d)

....

152. argv[bottom + i] = argv[top - (middle - bottom) + i];
```

Buffer Overflow IndexFromInput\Path 28:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=48

Status New

Code Snippet

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	152
Object	argv	BinaryExpr

```
File Name reactos/getopt.c

Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
```

Method exchange (char **argv, struct _getopt_data *d)

152. argv[bottom + i] = argv[top - (middle - bottom) + i];

Buffer Overflow IndexFromInput\Path 29:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=49

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

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



File	reactos/getopt.c	reactos/getopt.c
Line	746	151
Object	argc	BinaryExpr

Code Snippet File Name

reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name

reactos/getopt.c

Method exchange (char **argv, struct _getopt_data *d)

151. tem = argv[bottom + i];

Buffer Overflow IndexFromInput\Path 30:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=50

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	151
Object	argv	BinaryExpr

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method exchange (char **argv, struct _getopt_data *d)

151. tem = argv[bottom + i];



Buffer Overflow IndexFromInput\Path 31:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=51

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	168
Object	argc	BinaryExpr

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method exchange (char **argv, struct _getopt_data *d)

168. argv[bottom + i] = argv[middle + i];

Buffer Overflow IndexFromInput\Path 32:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=52

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	168
Object	argv	BinaryExpr

Code Snippet



File Name reactos/getopt.c main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c

Method exchange (char **argv, struct _getopt_data *d)

....

168. argv[bottom + i] = argv[middle + i];

Buffer Overflow IndexFromInput\Path 33:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=53

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	167
Object	argc	BinaryExpr

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method exchange (char **argv, struct _getopt_data *d)

tem = argv[bottom + i];

Buffer Overflow IndexFromInput\Path 34:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=54



Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

_		
	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	167
Object	argv	BinaryExpr

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
Method exchange (char **argv, struct _getopt_data *d)

....
167. tem = argv[bottom + i];
```

Buffer Overflow IndexFromInput\Path 35:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=55

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	169
Object	argc	BinaryExpr

```
Code Snippet
```

File Name reactos/getopt.c

Method main (int argc, char **argv)

.... 746. main (int argc, char **argv)

¥



File Name reactos/getopt.c Method exchange (char **argv, struct _getopt_data *d) 169. argv[middle + i] = tem;

Buffer Overflow IndexFromInput\Path 36:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=56

Status New

Code Snippet

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	169
Object	argv	BinaryExpr

File Name reactos/getopt.c Method main (int argc, char **argv)

746. main (int argc, char **argv)

٧

File Name reactos/getopt.c

Method exchange (char **argv, struct _getopt_data *d)

> 169. argv[middle + i] = tem;

Buffer Overflow IndexFromInput\Path 37:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=57

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

ource	Destination
-------	-------------



File	reactos/getopt.c	reactos/getopt.c
Line	746	168
Object	argc	BinaryExpr

Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
Method exchange (char **argv, struct _getopt_data *d)

....
168. argv[bottom + i] = argv[middle + i];

Buffer Overflow IndexFromInput\Path 38:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=58

Status New

The size of the buffer used by exchange in BinaryExpr, at line 128 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	168
Object	argv	BinaryExpr

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
Method exchange (char **argv, struct _getopt_data *d)

....

168. argv[bottom + i] = argv[middle + i];
```



Buffer Overflow IndexFromInput\Path 39:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=59

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

-		<u> </u>	
	Source		Destination
File	reactos/getopt.c		reactos/getopt.c
Line	746		525
Object	argc		optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

¥

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

525. if (d->optind != argc && !strcmp (argv[d->optind], "--"))

Buffer Overflow IndexFromInput\Path 40:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=60

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	525
Object	argv	optind

Code Snippet



Buffer Overflow IndexFromInput\Path 41:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=61

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

-		
	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	515
Object	argc	optind

Code Snippet File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

515. while (d->optind < argc && NONOPTION_P)

Buffer Overflow IndexFromInput\Path 42:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=62



Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	515
Object	argv	optind

```
Code Snippet
File Name reactos/getopt.c
Method main (int argc, char **argv)

....
746. main (int argc, char **argv)

File Name reactos/getopt.c
__getopt_internal_r (int argc, char **argv, const char *optstring,

....
515. while (d->optind < argc && NONOPTION_P)
```

Buffer Overflow IndexFromInput\Path 43:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=63

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	515
Object	argc	optind

```
Code Snippet
```

File Name reactos/getopt.c

Method main (int argc, char **argv)

.... 746. main (int argc, char **argv)

¥



File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

....

515. while (d->optind < argc && NONOPTION_P)

Buffer Overflow IndexFromInput\Path 44:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=64

Status New

The size of the buffer used by _getopt_internal_r in optind, at line 468 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argv, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	515
Object	argv	optind

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

746. main (int argc, char **argv)

A

File Name reactos/getopt.c

Method __getopt_internal_r (int argc, char **argv, const char *optstring,

515. while (d->optind < argc && NONOPTION_P)

Buffer Overflow IndexFromInput\Path 45:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=65

Status New

The size of the buffer used by main in PostfixExpr, at line 746 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argc, at line 746 of reactos/getopt.c, to overwrite the target buffer.

Source Destination



File	reactos/getopt.c	reactos/getopt.c
Line	746	801
Object	argc	PostfixExpr

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

```
....
746. main (int argc, char **argv)
....
801. printf ("%s ", argv[optind++]);
```

Buffer Overflow IndexFromInput\Path 46:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=66

Status New

The size of the buffer used by main in PostfixExpr, at line 746 of reactos/getopt.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 746 of reactos/getopt.c, to overwrite the target buffer.

	Source	Destination
	Source	Destination
File	reactos/getopt.c	reactos/getopt.c
Line	746	801
Object	argv	PostfixExpr

Code Snippet

File Name reactos/getopt.c

Method main (int argc, char **argv)

```
....
746. main (int argc, char **argv)
....
801. printf ("%s ", argv[optind++]);
```

Buffer Overflow IndexFromInput\Path 47:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=67

Status New

The size of the buffer used by LoadLibraryList in len, at line 113 of reactos/loadlib.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that main passes to argy, at line 152 of reactos/loadlib.c, to overwrite the target buffer.



	Source	Destination
File	reactos/loadlib.c	reactos/loadlib.c
Line	152	126
Object	argv	len

Code Snippet

File Name reactos/loadlib.c

Method int __cdecl main(int argc, char* argv[])

152. int __cdecl main(int argc, char* argv[])

٧

File Name reactos/loadlib.c

Method DWORD LoadLibraryList(char** libnames, int counter, BOOL bUseAnsi)

126. libnameW[len] = L'\0';

Buffer Overflow IndexFromInput\Path 48:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=68

Status New

The size of the buffer used by select_server in i, at line 740 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that select_server passes to BinaryExpr, at line 740 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	809	833
Object	BinaryExpr	i

Code Snippet

File Name reactos/sock.c

Method static VOID WINAPI select_server (server_params *par)

Buffer Overflow IndexFromInput\Path 49:

Severity High



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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=69

Status New

The size of the buffer used by select_server in i, at line 740 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that select_server passes to BinaryExpr, at line 740 of reactos/sock.c, to overwrite the target buffer.

_		
	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	809	811
Object	BinaryExpr	i

Code Snippet

File Name reactos/sock.c

Method static VOID WINAPI select_server (server_params *par)

Buffer Overflow IndexFromInput\Path 50:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=70

Status New

The size of the buffer used by select_server in i, at line 740 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that select_server passes to BinaryExpr, at line 740 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	809	809
Object	BinaryExpr	i

Code Snippet

File Name reactos/sock.c

Method static VOID WINAPI select_server (server_params *par)

```
n_recvd = recv ( mem->sock[i].s, mem-
>sock[i].buf + mem->sock[i].n_recvd, min ( n_expected - mem-
>sock[i].n_recvd, par->buflen ), 0 );
```



Buffer Overflow StrcpyStrcat

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow StrcpyStrcat Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows NIST SP 800-53: SI-10 Information Input Validation (P1)

OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow StrcpyStrcat\Path 1:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=73

Status New

The size of the buffer used by flatten_cmdline in argv, at line 40 of reactos/dispatcher.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that flatten_cmdline passes to argv, at line 40 of reactos/dispatcher.c, to overwrite the target buffer.

	Source	Destination
File	reactos/dispatcher.c	reactos/dispatcher.c
Line	40	67
Object	argv	argv

Code Snippet

File Name reactos/dispatcher.c

Method char* flatten_cmdline(const char *prog, char* const argv[])

char* flatten_cmdline(const char *prog, char* const argv[])
strcpy(p, argv[i]);

Buffer Overflow StrcpyStrcat\Path 2:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=74

Status New

The size of the buffer used by flatten_cmdline in p, at line 40 of reactos/dispatcher.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that flatten cmdline passes to argv, at line 40 of reactos/dispatcher.c, to overwrite the target buffer.

	Source	Destination
File	reactos/dispatcher.c	reactos/dispatcher.c
Line	40	67
Object	argv	p



```
Code Snippet
```

File Name

reactos/dispatcher.c

Method

char* flatten_cmdline(const char *prog, char* const argv[])

```
....
40. char* flatten_cmdline(const char *prog, char* const argv[])
....
67. strcpy(p, argv[i]);
```

Buffer Overflow StrcpyStrcat\Path 3:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=75

Status New

The size of the buffer used by get_event_details in name, at line 5533 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get_event_details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5539
Object	name	name

Code Snippet

File Name

reactos/sock.c

Method

static void get_event_details(int event, int *bit, char *name)

```
....
5533. static void get_event_details(int event, int *bit, char *name)
....
5539. if (name) strcpy(name, "FD_ACCEPT");
```

Buffer Overflow StrcpyStrcat\Path 4:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=76

Status New

The size of the buffer used by get_event_details in name, at line 5533 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5543



Object name name

Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

5533. static void get_event_details(int event, int *bit, char *name)
...
5543. if (name) strcpy(name, "FD_CONNECT");

Buffer Overflow StrcpyStrcat\Path 5:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=77

Status New

The size of the buffer used by get_event_details in name, at line 5533 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5547
Object	name	name

Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

5533. static void get_event_details(int event, int *bit, char *name)
...
5547. if (name) strcpy(name, "FD_READ");

Buffer Overflow StrcpyStrcat\Path 6:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=78

Status New

The size of the buffer used by get_event_details in name, at line 5533 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c



Line	5533	5551
Object	name	name

Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

....
5533. static void get_event_details(int event, int *bit, char *name)
....
5551. if (name) strcpy(name, "FD_OOB");

Buffer Overflow StrcpyStrcat\Path 7:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=79

Status New

The size of the buffer used by get_event_details in name, at line 5533 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5555
Object	name	name

Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

....
5533. static void get_event_details(int event, int *bit, char *name)
....
5555. if (name) strcpy(name, "FD_WRITE");

Buffer Overflow StrcpyStrcat\Path 8:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=80

Status New

The size of the buffer used by get_event_details in name, at line 5533 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get_event_details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

Source Destination



File	reactos/sock.c	reactos/sock.c
Line	5533	5559
Object	name	name

Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

5533. static void get_event_details(int event, int *bit, char *name)
...
5559. if (name) strcpy(name, "FD_CLOSE");

Buffer Overflow StrcpyStrcat\Path 9:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=81

Status New

The size of the buffer used by *dbgstr_event_seq_result in len, at line 5586 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	=	
	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5626
Object	name	len

Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

5533. static void get_event_details(int event, int *bit, char *name)

A

File Name reactos/sock.c

Method static char *dbgstr_event_seq_result(SOCKET s, WSANETWORKEVENTS

*netEvents)

.... 5626. strcpy(message + len, "]");

Buffer Overflow StrcpyStrcat\Path 10:

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



BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=82

Status New

The size of the buffer used by *dbgstr_event_seq_result in BinaryExpr, at line 5586 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get_event_details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5626
Object	name	BinaryExpr

Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

....
5533. static void get_event_details(int event, int *bit, char *name)

¥

File Name reactos/sock.c

Method static char *dbgstr_event_seq_result(SOCKET s, WSANETWORKEVENTS

*netEvents)

.... 5626. strcpy(message + len, "]");

Buffer Overflow StrcpyStrcat\Path 11:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=83

Status New

The size of the buffer used by *dbgstr_event_seq_result in message, at line 5586 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5626
Object	name	message

Code Snippet

File Name reactos/sock.c

Method static void get event details(int event, int *bit, char *name)



```
File Name reactos/sock.c

Method static char *dbgstr_event_seq_result(SOCKET s, WSANETWORKEVENTS *netEvents)

....

5626. strcpy( message + len, "]" );
```

Buffer Overflow StrcpyStrcat\Path 12:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=84

Status New

The size of the buffer used by *dbgstr_event_seq in len, at line 5567 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5582
Object	name	len

```
Code Snippet
```

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

5533. static void get_event_details(int event, int *bit, char *name)

A

File Name reactos/sock.c

Method static const char *dbgstr_event_seq(const LPARAM *seq)

5582. strcpy(message + len, "]");

Buffer Overflow StrcpyStrcat\Path 13:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=85

Status New



The size of the buffer used by *dbgstr_event_seq in BinaryExpr, at line 5567 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5582
Object	name	BinaryExpr

```
Code Snippet
File Name reactos/sock.c
Method static void get_event_details(int event, int *bit, char *name)

....
5533. static void get_event_details(int event, int *bit, char *name)

File Name reactos/sock.c
Method static const char *dbgstr_event_seq(const LPARAM *seq)

....
5582. strcpy( message + len, "]" );
```

Buffer Overflow StrcpyStrcat\Path 14:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=86

Status New

The size of the buffer used by *dbgstr_event_seq in message, at line 5567 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that get event details passes to name, at line 5533 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	5533	5582
Object	name	message

```
Code Snippet

File Name reactos/sock.c

Method static void get_event_details(int event, int *bit, char *name)

....

5533. static void get_event_details(int event, int *bit, char *name)
```



```
File Name reactos/sock.c

Method static const char *dbgstr_event_seq(const LPARAM *seq)

....

5582. strcpy( message + len, "]" );
```

Buffer Overflow boundedcpy

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow boundedcpy Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows NIST SP 800-53: SI-10 Information Input Validation (P1)

OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow boundedcpy\Path 1:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=8

Status New

The size parameter BinaryExpr in line 978 in file reactos/editor.c is influenced by the user input url in line 978 in file reactos/editor.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/editor.c	reactos/editor.c
Line	1055	1062
Object	url	BinaryExpr

Code Snippet

File Name

reactos/editor.c

Method

static INT_PTR CALLBACK hyperlink_dlgproc(HWND hwnd, UINT msg, WPARAM wparam, LPARAM lparam)

```
GetWindowTextW(hwndURL, url, len + 1);

memmove(url + (*type != '\0' ? strlenW(type)
+ 2 : 0), p, (len + 1 - (p - url)) * sizeof(WCHAR));
```

Buffer Overflow boundedcpy\Path 2:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=9

Status New



The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8951	9061
Object	buf	sizeof

```
Code Snippet
```

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8951. iret = recv(dest, buf, sizeof(buf), 0);
....
9061. ok(memcmp(buf, &footer_msg[0], sizeof(footer_msg)) == 0,
```

Buffer Overflow boundedcpy\Path 3:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=10

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8961	9061
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
size = recv(dest, buf, size of (buf), 0);
size of (buf), 0);
size of (footer_msg) == 0,
```

Buffer Overflow boundedcpy\Path 4:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500



	79&pathid=11	
Status	New	

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8982	9061
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8982. iret = recv(dest, buf, sizeof(header_msg), 0);
...
9061. ok(memcmp(buf, &footer_msg[0], sizeof(footer_msg)) == 0,
```

Buffer Overflow boundedcpy\Path 5:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=12

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8986	9061
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
size = recv(dest, buf, sizeof(footer_msg), 0);
size = recv(dest, buf, sizeof(footer_msg), 0);
size = 0,
```

Buffer Overflow boundedcpy\Path 6:

Severity High Result State To Verify



Online Results http://WIN-

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=13

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8951	9057
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8951. iret = recv(dest, buf, sizeof(buf), 0);
....
9057. ok(memcmp(buf, &header_msg[0], sizeof(header_msg)) == 0,
```

Buffer Overflow boundedcpy\Path 7:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=14

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8961	9057
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8961. iret = recv(dest, buf, sizeof(buf), 0);
....
9057. ok(memcmp(buf, &header_msg[0], sizeof(header_msg)) == 0,
```

Buffer Overflow boundedcpy\Path 8:



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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=15

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8982	9057
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8982. iret = recv(dest, buf, sizeof(header_msg), 0);
....
9057. ok(memcmp(buf, &header_msg[0], sizeof(header_msg)) == 0,
```

Buffer Overflow boundedcpy\Path 9:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=16

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8951	8987
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
....
8951.    iret = recv(dest, buf, sizeof(buf), 0);
....
8987.    ok(memcmp(buf, &footer_msg[0], sizeof(footer_msg)) == 0,
```



Buffer Overflow boundedcpy\Path 10:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=17

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8961	8987
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

8961. iret = recv(dest, buf, sizeof(buf), 0);
....
8987. ok(memcmp(buf, &footer_msg[0], sizeof(footer_msg)) == 0,

Buffer Overflow boundedcpy\Path 11:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=18

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8951	8983
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)



```
iret = recv(dest, buf, sizeof(buf), 0);

ok(memcmp(buf, &header_msg[0], sizeof(header_msg)) == 0,
```

Buffer Overflow boundedcpy\Path 12:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=19

Status New

The size parameter size of in line 8856 in file reactos/sock.c is influenced by the user input buf in line 8856 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8961	8983
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8961. iret = recv(dest, buf, sizeof(buf), 0);
....
8983. ok(memcmp(buf, &header_msg[0], sizeof(header_msg)) == 0,
```

Buffer Overflow boundedcpy\Path 13:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=20

Status New

The size parameter size of in line 6498 in file reactos/sock.c is influenced by the user input buffer in line 6498 in file reactos/sock.c. This may lead to a buffer overflow vulnerability, which may in turn result in malicious code execution.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	6608	6636
Object	buffer	sizeof

Code Snippet



```
File Name
             reactos/sock.c
Method
```

static void test_WSASendMsg(void)

```
6608.
         ret = recvfrom(dst, buffer, sizeof(buffer), 0, (struct
sockaddr *) &sockaddr, &addrlen);
          memset(buffer, 0, sizeof(buffer));
6636.
```

Buffer Overflow Indexes

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow Indexes Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows NIST SP 800-53: SI-10 Information Input Validation (P1)

OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow Indexes\Path 1:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=4

New Status

The size of the buffer used by test TransmitFile in header msg, at line 8856 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that test TransmitFile passes to buf, at line 8856 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8951	8966
Object	buf	header_msg

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
iret = recv(dest, buf, sizeof(buf), 0);
8951.
          ok(memcmp(&buf[sizeof(header msg)], &footer msg[0],
sizeof(footer msg)) == 0,
```

Buffer Overflow Indexes\Path 2:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=5

New Status



The size of the buffer used by test_TransmitFile in sizeof, at line 8856 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that test TransmitFile passes to buf, at line 8856 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8951	8966
Object	buf	sizeof

```
Code Snippet
```

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8951. iret = recv(dest, buf, sizeof(buf), 0);
....
8966. ok(memcmp(&buf[sizeof(header_msg)], &footer_msg[0],
sizeof(footer_msg)) == 0,
```

Buffer Overflow Indexes\Path 3:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=6

Status New

The size of the buffer used by test_TransmitFile in header_msg, at line 8856 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that test TransmitFile passes to buf, at line 8856 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8961	8966
Object	buf	header_msg

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8961. iret = recv(dest, buf, sizeof(buf), 0);
....
8966. ok(memcmp(&buf[sizeof(header_msg)], &footer_msg[0],
sizeof(footer_msg)) == 0,
```

Buffer Overflow Indexes\Path 4:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500



79&	path	id=7
-----	------	------

Status New

The size of the buffer used by test_TransmitFile in sizeof, at line 8856 of reactos/sock.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that test TransmitFile passes to buf, at line 8856 of reactos/sock.c, to overwrite the target buffer.

	Source	Destination
File	reactos/sock.c	reactos/sock.c
Line	8961	8966
Object	buf	sizeof

Code Snippet

File Name reactos/sock.c

Method static void test_TransmitFile(void)

```
8961. iret = recv(dest, buf, sizeof(buf), 0);
....
8966. ok(memcmp(&buf[sizeof(header_msg)], &footer_msg[0],
sizeof(footer_msg)) == 0,
```

Buffer Overflow LongString

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow LongString Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows NIST SP 800-53: SI-10 Information Input Validation (P1)

OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow LongString\Path 1:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=1

Status New

The size of the buffer used by exec_forecolor in color_str, at line 564 of reactos/editor.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that exec forecolor passes to "#%02x%02x%02x", at line 564 of reactos/editor.c, to overwrite the target buffer.

_		
	Source	Destination
File	reactos/editor.c	reactos/editor.c
Line	573	576
Object	"#%02x%02x%02x"	color_str

Code Snippet

File Name reactos/editor.c



Method static HRESULT exec_forecolor(HTMLDocument *This, DWORD cmdexecopt, VARIANT *in, VARIANT *out)

Buffer Overflow LongString\Path 2:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=2

Status New

The size of the buffer used by test3 in Buffer, at line 423 of reactos/hivetest.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that test3 passes to "\Registry\Machine\\Software\\test3reactos", at line 423 of reactos/hivetest.c, to overwrite the target buffer.

	Source	Destination	
File	reactos/hivetest.c	reactos/hivetest.c	
Line	433	433	
Object	"\\Registry\\Machine\\Software\\test3re actos"	Buffer	

Code Snippet

File Name reactos/hivetest.c Method void test3(void)

433. RtlRosInitUnicodeStringFromLiteral(&KeyName,
L"\\Registry\\Machine\\Software\\test3reactos");

Buffer Overflow LongString\Path 3:

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

BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1050089&projectid=500

79&pathid=3

Status New

The size of the buffer used by test3 in Buffer, at line 423 of reactos/hivetest.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that test3 passes to "\Registry\\Machine\\Software\\test3reactos", at line 423 of reactos/hivetest.c, to overwrite the target buffer.

	Source	Destination	
File	reactos/hivetest.c	reactos/hivetest.c	
Line	446	446	
Object	"\\Registry\\Machine\\Software\\test3re actos"	Buffer	



```
Code Snippet

File Name reactos/hivetest.c

Method void test3(void)

....

446. RtlRosInitUnicodeStringFromLiteral(&KeyName,
L"\\Registry\\Machine\\Software\\test3reactos");
```

Buffer Overflow LongString

Risk

What might happen

Buffer overflow attacks, in their various forms, could allow an attacker to control certain areas of memory. Typically, this is used to overwrite data on the stack necessary for the program to function properly, such as code and memory addresses, though other forms of this attack exist. Exploiting this vulnerability can generally lead to system crashes, infinite loops, or even execution of arbitrary code.

Cause

How does it happen

Buffer Overflows can manifest in numerous different variations. In it's most basic form, the attack controls a buffer, which is then copied to a smaller buffer without size verification. Because the attacker's source buffer is larger than the program's target buffer, the attacker's data overwrites whatever is next on the stack, allowing the attacker to control program structures.

Alternatively, the vulnerability could be the result of improper bounds checking; exposing internal memory addresses outside of their valid scope; allowing the attacker to control the size of the target buffer; or various other forms.

General Recommendations

How to avoid it

- o Always perform proper bounds checking before copying buffers or strings.
- o Prefer to use safer functions and structures, e.g. safe string classes over char*, strncpy over strcpy, and so on.
- o Consistently apply tests for the size of buffers.
- o Do not return variable addresses outside the scope of their variables.

Source Code Examples



Buffer Overflow Indexes

Risk

What might happen

Buffer overflow attacks, in their various forms, could allow an attacker to control certain areas of memory. Typically, this is used to overwrite data on the stack necessary for the program to function properly, such as code and memory addresses, though other forms of this attack exist. Exploiting this vulnerability can generally lead to system crashes, infinite loops, or even execution of arbitrary code.

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General Recommendations

How to avoid it

- o Always perform proper bounds checking before copying buffers or strings.
- o Prefer to use safer functions and structures, e.g. safe string classes over char*, strncpy over strcpy, and so on.
- o Consistently apply tests for the size of buffers.
- o Do not return variable addresses outside the scope of their variables.

Source Code Examples



Buffer Overflow boundedcpy

Risk

What might happen

Allowing tainted inputs to set the size of how many bytes to copy from source to destination may cause memory corruption, unexpected behavior, instability and data leakage. In some cases, such as when additional and specific areas of memory are also controlled by user input, it may result in code execution.

Cause

How does it happen

Should the size of the amount of bytes to copy from source to destination be greater than the size of the destination, an overflow will occur, and memory beyond the intended buffer will get overwritten. Since this size value is derived from user input, the user may provide an invalid and dangerous buffer size.

General Recommendations

How to avoid it

- Do not trust memory allocation sizes provided by the user; derive them from the copied values instead.
- If memory allocation by a provided value is absolutely required, restrict this size to safe values only. Specifically ensure that this value does not exceed the destination buffer's size.

Source Code Examples

CPP

Size Parameter is Influenced by User Input

```
char dest_buf[10];
memset(dest_buf, '\0', sizeof(dest_buf));
strncpy(dest_buf, src_buf, size); //Assuming size is provided by user input
```

Validating Destination Buffer Length

```
char dest_buf[10];
memset(dest_buf, '\0', sizeof(dest_buf));
if (size < sizeof(dest_buf) && sizeof(src_buf) >= size) //Assuming size is provided by user
input
{
     strncpy(dest_buf, src_buf, size);
}
else
{
     //...
}
```



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Buffer Overflow IndexFromInput

Risk

What might happen

Buffer overflow attacks, in their various forms, could allow an attacker to control certain areas of memory. Typically, this is used to overwrite data on the stack necessary for the program to function properly, such as code and memory addresses, though other forms of this attack exist. Exploiting this vulnerability can generally lead to system crashes, infinite loops, or even execution of arbitrary code.

Cause

How does it happen

Buffer Overflows can manifest in numerous different variations. In it's most basic form, the attack controls a buffer, which is then copied to a smaller buffer without size verification. Because the attacker's source buffer is larger than the program's target buffer, the attacker's data overwrites whatever is next on the stack, allowing the attacker to control program structures.

Alternatively, the vulnerability could be the result of improper bounds checking; exposing internal memory addresses outside of their valid scope; allowing the attacker to control the size of the target buffer; or various other forms.

General Recommendations

How to avoid it

- o Always perform proper bounds checking before copying buffers or strings.
- o Prefer to use safer functions and structures, e.g. safe string classes over char*, strncpy over strcpy, and so on.
- o Consistently apply tests for the size of buffers.
- o Do not return variable addresses outside the scope of their variables.

Source Code Examples



Buffer Overflow StrcpyStrcat

Risk

What might happen

Buffer overflow attacks, in their various forms, could allow an attacker to control certain areas of memory. Typically, this is used to overwrite data on the stack necessary for the program to function properly, such as code and memory addresses, though other forms of this attack exist. Exploiting this vulnerability can generally lead to system crashes, infinite loops, or even execution of arbitrary code.

Cause

How does it happen

Buffer Overflows can manifest in numerous different variations. In it's most basic form, the attack controls a buffer, which is then copied to a smaller buffer without size verification. Because the attacker's source buffer is larger than the program's target buffer, the attacker's data overwrites whatever is next on the stack, allowing the attacker to control program structures.

Alternatively, the vulnerability could be the result of improper bounds checking; exposing internal memory addresses outside of their valid scope; allowing the attacker to control the size of the target buffer; or various other forms.

General Recommendations

How to avoid it

- o Always perform proper bounds checking before copying buffers or strings.
- o Prefer to use safer functions and structures, e.g. safe string classes over char*, strncpy over strcpy, and so on.
- o Consistently apply tests for the size of buffers.
- o Do not return variable addresses outside the scope of their variables.

Source Code Examples

CPP

Overflowing Buffers

```
const int BUFFER_SIZE = 10;
char buffer[BUFFER_SIZE];

void copyStringToBuffer(char* inputString)
{
    strcpy(buffer, inputString);
}
```

Checked Buffers

```
const int BUFFER_SIZE = 10;
const int MAX_INPUT_SIZE = 256;
```



```
char buffer[BUFFER_SIZE];

void copyStringToBuffer(char* inputString)
{
    if (strnlen(inputString, MAX_INPUT_SIZE) < sizeof(buffer))
    {
        strncpy(buffer, inputString, sizeof(buffer));
    }
}</pre>
```



Scanned Languages

Language	Hash Number	Change Date
СРР	4541647240435660	6/19/2024
Common	0105849645654507	6/19/2024